Table 1-1
Wastes and Residues
Niagara Falls Storage Site

Classification	Volume (yd^3)	Total Uranium (ppm)	Concentration of U_3O_8 in Ore	Ra-226 Inventory (Ci)	Th-230 Inventory (Ci)
K-65	3,200[a]	Estimates range from 500 to 30,000	35-60%	1,881	195
L-30	7,960[b]	Estimates range from 830 to 1,950	~10%	87	87
F-32	440[c]	Estimates range from 4,000 to 6,500	unknown	0.2	0.2
L-50	2,150[d]	Estimates range from 1,000 to 1,300	~7%	6	6
R-10 residues and soil	59,500[e]	Residues: 2,300	~ 3.5%	5	5
Middlesex Sands	230	<100	-	< 0.01 µg/Kg	Not reported
Remaining Contaminated Soils	116,900[f]	Unknown	-	3	3

a. Different volumes are presented by different documents: Battelle lists 4,074 yd^3 in the May 1981 (Battelle 1981b) document and 4,030 yd^3 in the June 1981(Battelle 1981a) document. The DOE 1986 lists 4,000 yd^3. Internal documentaion (presented in Appendix A) by Bechtel personnel (BNI 1986a) indicate that the volume was 3,200 yd^3 based on visual observation inside Building 434 during the slurrying process. This amount is supported by calculations of residue volumes using the dimensions of Building 411.

b. Different volumes are presented by different documents: Battelle lists 7,960 yd^3 in the May 1981 (Battelle 1981b) document and 7,873 yd^3 in the June 1981 (Battelle 1981a) document. DOE 1986 lists 7,848 yd^3.

c. Different volumes are presented by different documents: Battelle lists 440 yd^3 in the May 1981 (Battelle 1981b) document and 439 yd^3 in the June 1981 (Battelle 1981a) document. DOE 1986 lists 654 yd^3.

d. Different volumes are presented by different documents: Battelle lists 2,148 yd^3 in the May 1981 (Battelle 1981b) document and 2,124 yd^3 in the June 1981 (Battelle 1981a) document. DOE 1986 lists 1,962 yd^3.

e. The EIS indicates that the R-10 spoils pile consists of 9,500 yd^3 residues and 15,000 yd^3 contaminated soils from 1972 remedial actions placed on top of the R-10 pile. The resulting R-10 spoil pile subsequently leached into the underlying soil, contaminating an additional 35,000 yd^3 of below grade soils for a total of 59,500 yd^3 (DOE 1986).

f. DOE 1996.

Table 1-2
Operational Timeline
Niagara Falls Storage Site

Date	Activities
1/8/1942	Construction at the LOOW started
10/1/1942	Initial operation of the LOOW
ca. 1/1/43	LOOW starts full scale production of TNT
3/28/1943	Construction at the LOOW completed
8/1/1943	Manufacture of TNT ceases
1944	L-30 Residues stored in Building 411. L-50 Residues stored in Buildings 413 and 414
1944-49	R-10 Residues stored in an open pile north of Building 411
1949	K-65 wastes shipped to NFSS. Waste shipped in drums and the drums were initially stored along roads and rail lines and in Building 410. The Middlesex Sands were shipped to the NFSS and stored in Building 410.
1950-52	K-65 wastes transferred to Building 434, a water tower located in the northeast portion of the site.
1953-59	Boron-10 produced in Building 401
1955-58	Approximately 1297 acres of offsite surplus properties remediated. Wastes transferred to the R-10 pile.
1964-65	R-10 pile covered with soil and seeded in grass.
1965-71	Boron-10 produced in Building 401
1972	Additional offsite properties are remediated. Approximately 15,000 cubic yards of contaminated soil are transferred to the R-10 pile.
1979	Buildings 413 and 414 sealed to reduce randon emanation.
1980	Vent on Building 434 capped to reduce radon emission. Pipes penetrating walls of residue stroage buildings sealed or resealed.
1981	Site fence relocated approximately 500 feet to the west. 450 cubic yards of contaminated soils excavated frm property adjcacent to the site and placed on the R-10 pile.
1982	Buildings 413 and 414 upgraded and sealed. 16,000 cubic yards of soil near the R-10 pile moved onto the pile and a dike and cutoff wall constructed. R-10 pile covered with an EPDM liner.
1983-84	54,000 cubic yards of contaminated soil excavated from onsite and offsite ditches and placed on the R-10 pile. These materials were stored north of Building 411 and later interred in the IWCS. Cutoff dike extended around building 411 and roof and exterior wall removed. EPDM liner removed from R-10 pile 75% of the K-65 residues transferred through a 4-inch pipeline from Building 434 to the eastern half of Building 411, where the slurried residues were dewatered. Buildings 410, 412, and 415 demolished. 27,900 cubic yards of contaminated soil excavated from vicinity properties, some onsite areas and a portion of the central ditch excavated and stored north of Building 411.
1985	Transfer of K-65 residues to Building 411 completed; demarcation layer installed to identify the location of the K-65 residues. Buildings 423 and 424 demolished 9300 cubic yards of conatminated materials excavated from onsite and offsite areas are transferred to the the IWCS. 1450 cubic yards of building rubble transferred to IWCS
1986	Cap over the residues in the IWCS closed. Buildings 409 and 430 demolished. Buildings 431 and 432 decontaminated and demolished.
1987	Buried drums from vicinity property excavated and placed in temporary storage
1988	Several isolated offsite areas of residual radioactiviy excavated and placed in temporary storage
1990	Limited chemical characterization study performed on NFSS
1991-1992	On localized onsite area was remediated; this material, the material generated in 1989 and the 60 drums of radioactvely contaminated materials were consolidated into the IWCS.
1997	Congress transfers control of FUSRAP to the USACE.
1999	Phase 1 of the NFSS remedial investigation performed.
2000	Phase 2 of the NFSS remedial investiation performed.
2000	Gamma walkover survey of the NFSS performed.
2001 - 2003	Phase 3 of the NFSS remedial investigation performed.
2001	Geophysical survey of the NFSS performed.
2006	NFSS remedial investigation report completed.

Sources: Reconstruction Finance Corporation circa 1945
BNI 1994a
BNI 1986c

Table 2-1
Project Phases and Sample Collection*

Project Task	Sample Collection Dates	Media Type								
		Groundwater	Subsurface Soil	Sediment	Surface Soil	Surface Water	Railroad Ballast	Roadway/ Buiding Slab Pavement Core	Abandoned Drum Contents	Oil Samples from Building 401 Floor Drains
Phase 1										
Groundwater, Surface Water, Sediment and Soil	11/99 - 1/00	91	78	39	67	40				
Phase 2										
Soil, Groundwater, Sediment, Railroad Ballast, Road and Building Slab Cores	8/00 - 10/00	63	51	5	141		5	14		
Phase 3										
Pipeline Investigation	5/01 - 6/01			42		28				
Sediment, Surface Soil, Soil, Pavement Cores, Radiological Survey, Drums Followup on Gamma Walkover	8/01 - 11/01		77	33	176			5	2	
Niagara Mohawk: Radiological Sampling of Soil, Sediment, and Surface Water	11/01		11	9	6	11				
NFSS Trenching, Trench Sampling	5/02 - 6/02		79		5					
Background Groundwater	5/03 - 6/03	26								
BRA Soil Sampling, Background Surface Water and Sediment, Abandoned Drum Sampling and Disposal	3/03 - 7/03		42	21	43	9			6	
Confirmatory Groundwater and Adjacent Property Well Sampling	5/03 - 6/03	46								
Soil and Groundwater Delineation Sampling, Building 411: Drains, Floor and Subfloor Sampling.	9/03 - 10/03	35	85	15	39	6		10		2
Total Samples		**261**	**423**	**164**	**477**	**94**	**5**	**29**	**8**	**2**

* Sample counts represent samples collected during this RI. However, not all samples were used and some samples were reclassified during evaluation. Samples taken during the LOOW RI are not included in this table but were used during the RI evaluation.

Table 2-2
Analytical Methods for Soil Samples
Niagara Falls Storage Site Remedial Investigation

Soil Sample Parameters	Method
General Chemistry	
Nitroaromatics	SW846 – 8330
Total Organic Carbon	SW846 – 9060
Mercury	SW846 – 7471A
Arsenic, Lead, Lithium, Selenium, Silver, Thallium	SW846 – 3050B/6020
Target Analyte List (TAL) Metals	SW846 – 3050B/6010B
Volatile Organic Compounds (VOCs)	SW846 – 5035/8260B
Semi-Volatile Organic Compounds (SVOCs)	SW846 – 3550B/8270C
Polynuclear Aromatic Hydrocarbons (PAHs)	SW846 - 8310
Pesticides/PCBs	SW846 – 3550B/8081A/8082
Cation Exchange Capacity	SW846 – 9081
Radiological	
Gross alpha/beta	EPA 900, Gas Flow, Modified
Isotopic Thorium (Th-228, Th-230, Th-232)	HASL 300, Alpha Spec
Additional Radionuclides (Gamma Spec)*	HASL 300, Gamma Spec
Isotopic Uranium (U-234, U-235, U-238)	HASL 300, Alpha Spec
Total Uranium	ASTM D5174, KPA
Total Activity	EPA 906 Liquid Scintillation
Isotopic Plutonium (Pu-238, Pu-239/240)	HASL 300, Alpha Spec
Strontium-90 (Sr-90)	EPA 905.0, Modified

*Includes U-238, Ra-226, Ra-228, Th-228, U-235, Pa-231, Ac-227, Co-60, Cs-137, Am-241

Table 2-3
Analytical Methods for Water Samples
Niagara Falls Storage Site Remedial Investigation

Water Sample Parameters	Method
General Chemistry	
Dissolved/Total Arsenic, Lead, Lithium, Silver, Thallium	SW846 – 3010A/3020A/6020
Dissolved/Total Mercury	SW846 – 7470A
Other Dissolved Total/ Target Analyte List (TAL) Metals	SW846 – 3010A/3020A/6010B
Volatile Organic Compounds (VOCs)	SW846 – 5030B/8260B
Pesticides/PCBs	SW846 – 3510C/8081A/8082
Semi-Volatile Organic Compounds (SVOCs)	SW846 – 3510C/8270C
Polynuclear Aromatic Hydrocarbons (PAHs)	SW846 - 8310
Nitroaromatics	SW846 – 8330
Radiological	
Diss/Tot. Gross alpha/beta	EPA 900, Gas Flow
Diss/Tot. Radium-226	EPA 903.1 Modified, Radon Emanation
Diss/Tot. Isotopic Thorium (Th-228, Th-230, Th-232)	HASL 300, Alpha Spec
Diss/Tot. Isotopic Uranium (U-234, U-235, U-238)	HASL 300, Alpha Spec
Diss/Tot. Additional Radionuclides (Gamma-Spec)*	HASL 300, Gamma Spec
Diss/Tot. Total Uranium	ASTM D5174, KPA
Diss/Tot. Total Activity	EPA 906 Liquid Scintillation
Diss/Tot. Radium-228	EPA 904.1 Gas-Flow Prep. Counter
Diss/Tot. Isotopic Plutonium (Pu-238, Pu-239/240)	HASL 300, Alpha Spec
Diss/Tot. Strontium-90 (Sr-90)	EPA 905.0, Modified

*includes U-238, Ra-226, Ra-228, Th-228, U-235, Pa-231, Ac-227, Co-60, Cs-137, Am-241

Table 2-4
Analytical Methods for Asbestos and Geotechnical Method Parameters
Niagara Falls Storage Site Remedial Investigation

Asbestos Testing	Method
Asbestos by PLM (Polarized Light Microscopy)	EPA/600/R-93/116
Geotechnical Method Parameters	**Method**
Particle Size Analysis of Soil	ASTM D422
Liquid Limit, Plastic Limit and Plasticity Index of Soil	ASTM D4318
Moisture Content	ASTM D2216
Soil Density In-Place	ASTM D2937

ASTM American Society for Testing and Materials

Table 2-5
Analytical Methods for Water Quality
Niagara Falls Storage Site Remedial Investigation

Water Quality – Laboratory	Method
Total Suspended Solids (TSS)	EPA 160.2
Total Dissolved Solids (TDS)	EPA 160.1
Alkalinity (Carbonate and Bicarbonate)	EPA 310.1
Total Organic Carbon	SW846-9060
Methane, Ethane, Ethene	SW846/8015 A/B
Anions (Cl, Fl, SO_4, NO_3, NO_2, o-PO_4)	EPA 300.0

Table 3-1
Exposure Unit Descriptions
Niagara Falls Storage Site Remedial Investigation

Exposure Unit	Description
1	EU 1 contains soil in the northwest corner of NFSS, referred to as the Baker-Smith Area. The Baker-Smith Area consisted of a storehouse, pipe shop, welding shop, and machine shop where potentially hazardous materials may have been used. Prior to their demolition, these buildings were used for storage of radioactive residues. This included storage of Knolls Atomic Power Laboratory (KAPL) Waste (NFSS-192). The EU is currently overgrown with shrubs and trees with some open areas around the former building areas. EU 1 is approximately 6.9 acres.
2	EU 2 contains soil in the area immediately east of EU 1. This area is not known to have contained buildings or process equipment during the time period when operations were ongoing at the site. The EU is bordered to the west by the Baker-Smith Area, to the north by the NFSS property boundary, to the east by the New Naval Waste Area (EU 3), and to the south by "O" Street. The historical activities in the eastern portion of EU 2 are associated with the New Naval Waste Area (EU 3) and former Acidification Area (EU 4), but EU 2 is now separated from these areas by a fence. The Central Ditch flows north through the center of EU 2. Young upland forest covers most of the area. Maintained turfgrass is present in some areas. EU 2 is approximately 8.7 acres.
3	EU 3 contains soil in the western portion of the former Acidification Area, EU 4. This area differs from the rest of Acidification Area in that it is also known as the New Naval Waste Area. Records indicate that waste from the Navy Mathieson area was placed here. Currently, young shrubs and trees cover the area. EU 3 is approximately 4.7 acres.
4	EU 4 contains soil in the former Acidification Area. This area was used as the acidification and acid storage location for the TNT production plant. Several aboveground tanks storing various acids (nitric and sulfuric) and other potentially hazardous materials were present in this EU during the operation of the LOOW. Tank cradles and concrete slabs are still present. The tank cradles are not known to have been used. Possible fuel oil storage and TNT mix storage may have occurred in this area during the operation of the LOOW. Temporary storage locations and constructed vaults for storage of pure uranium, thorium, and radium billets, ingots, bars, and rods reportedly existed in the former acidification area. The area is presently overgrown with young upland forest shrubs and trees. EU 4 is approximately 13.9 acres.
5	EU 5 contains soil, surface water, and sediment in the area east of the former Acidification Area. CWM Chemical Services, Inc. Landfill is located to the north and Modern Landfill is located to the south. EU 6 is located to the east. There were no buildings present in EU 5 during site operations; however, a pipeline used by the DOE to transfer radioactive residues from the former Building 434 in the EU 6 area to the IWCS in 1983 through 1985 ran through EU 5. Currently EU 5 consists of mostly young upland forest. CWM East Ditch Outfall, "N" Street South Pond, and "O" Street North Pond are semi-permanently flooded wetland areas. Sediment and surface water in these wetlands are included in EU 5. EU 5 is approximately 16.1 acres.

Table 3-1
Exposure Unit Descriptions
Niagara Falls Storage Site Remedial Investigation

Exposure Unit	Description
6	EU 6 includes surface and subsurface soil in the far northeastern corner of NFSS. CWM Chemical Services, Inc. Landfill is located to the north and Modern Landfill is located to the south. Building 434 and the K-65 silo (the former Cooling Water Storage Tower) were formerly present in EU 6. The central portion of EU 6, where Building 434 previously was located, is covered by maintained turfgrass. Young shrubs and trees are present around the perimeter. EU 6 is approximately 13.3 acres.
7	EU 7 consists of soil in the area north of the IWCS and south of "O" Street, including the Organic Burial Area where cut vegetation was previously disposed. Currently, EU 7 is covered by maintained turfgrass. EU 7 is approximately 13.2 acres.
8	EU 8 contains soil in the former shops area. This area once contained a parking garage, an equipment maintenance garage and repair shop, material shed, general storehouse, combined shops, millwright shop, and riggers shop. None of these buildings remain although some concrete building foundations are still present. Radioactive residues were stored in several of the former buildings in this EU. Corroded uranium billets were cut into smaller sections in the riggers shop. Vegetation in EU 8 is predominantly young, scrubby wet forest (ash, elm, and maple) with some reeds and cattails in ditch areas. EU 8 is approximately 18.9 acres.
9	EU 9 includes soil in the off-site Niagara Mohawk property adjacent to the western border of NFSS. Chemical or radiological compounds may have been released to this area during past site operations and construction of the IWCS. The West Ditch flows south to north through the entire length of EU 9. Old-field vegetation is present underneath the power line. Reeds fill most of the West Ditch. The northernmost reach of the West Ditch within EU 9 contains sediment that is submerged more than 50 percent of the year. EU 9 is approximately 5.7 acres.
10	EU 10 contains the IWCS and adjacent soil, surface water, and sediment. The IWCS contains the radioactive residues, radioactive wastes from prior decontamination efforts at both NFSS and vicinity properties, building rubble, drummed radioactive waste, foundations from buildings 409, 411, 413, and 414, and other demolition debris. The cap covering the IWCS was initially completed in 1986. Additional material was placed on top of the existing IWCS cap in 1991 and an additional cap layer was placed to entomb the material. A network of groundwater monitoring wells surrounds the IWCS. Except for vegetation in the ditches, all of EU 10 including the IWCS is covered by maintained turfgrass. EU 10 is approximately 25.7 acres.
11	EU 11 is located between the IWCS and Building 401. The two other remaining buildings, Building 429 and the Hittman Building, are located in EU 11. Campbell Street, the main site access road, runs north to south through EU 11. The site water treatment system previously was located in this area. Maintained turfgrass now covers the area. EU 11 is approximately 19.2 acres.
12	EU 12 includes soil in the area north and east of Building 401. Modern Landfill borders the EU to the east. No buildings were previously located in this area. Young, wet forest now covers most of the area. EU 12 is approximately 10.2 acres.

Table 3-1
Exposure Unit Descriptions
Niagara Falls Storage Site Remedial Investigation

Exposure Unit	Description
13	EU 13 contains soil in the Building 401 area. Building 401 was initially a coal-fired boiler house used to supply steam to the TNT production facility located to the north of NFSS. KAPL wastes were stored in the building in the late 1940's. These wastes were removed during subsequent renovations of the building in 1953 which converted the building into a Boron-10 isotope separation plant. Building 401 is now a dilapidated structure and is scheduled to be decontaminated and demolished. Vegetation in EU 13 is primarily maintained turfgrass. EU 13 is approximately 3.5 acres.
14	EU 14 contains soil in the area south and southeast of Building 401. This area is not known to have contained buildings or process equipment during the time period when operations were ongoing at the site. The EU is bordered to the east by Modern Landfill and to the south by the NFSS property boundary. Modern Ditch and the South 31 Ditch flow through this EU. Young wet forest covers most of the area. The western portion contains maintained turfgrass. The ditches are filled with reeds. EU 14 is approximately 14.3 acres.
15	EU 15 contains surface water and sediment in the main ditch system including Central Ditch, South 16 Ditch, South 31 Ditch, and Modern Ditch (see Figure 2.5). This ditch system drains most of the central portion of NFSS and receives runoff from Modern Landfill. The Central Ditch exits the site to the north in EU 2. Surface water is present in these ditches more than 50 percent of the year. The Central Ditch contains flowing water year-round. Reeds and cattails are frequently present in all these ditches.
16	EU 16 contains on-site pipelines used in former site operations. These pipelines include acid lines, water lines, sanitary sewers, and storm sewers. The locations of pipelines are shown of Figure 2.6.
17	EU 17 is a site-wide EU and includes all areas and media within the property boundary of NFSS. This includes all soil, sediment, surface water, and pipeline material in EUs 1 through 16. In addition it contains site-wide groundwater, including both the upper and lower water bearing zones. EU 17 is approximately 191 acres.
18	EU 18 contains off-site areas where background samples were collected.

Table 3-2
Explanation of Sample Naming Conventions

Example Sample ID	Explanation of Sample ID			
DRAIN01-S-3701	Drain01: Location	S: Sediment	3701: Unique extension number	
DRAIN01-W-3700	Drain01: Location	W: Water	3700: Unique extension number	
GWOW01B-793	GW: Groundwater	OW01B: Well number	793: Unique extension number	
MH08S-3684	MH08: Manhole Location	S: Sediment	3684: Unique extension number	
MH08W-3685	MH08: Manhole Location	W: Water	3685: Unique extension number	
PIPE28S-2058	Pipe28: Location	S: Sediment	2058: Unique extension number	
PIPE28W-2056	Pipe28: Location	W: Water	2056: Unique extension number	
RB01	RB: Railroad Ballast	01: Ballast sample #1		
RC02-965	RC: Concrete/pavement core	02: Core sample #2	965: Unique extension number	
RS-DRUM01-3368	RS: Residual material	DRUM01: Location	3368: Unique extension number	
SB4A014-2272-1.0	SB: Subsurface Soil	4A014: Location	2272: Unique extension number	1.0: Sample depth in feet
SD918-2117	SD: Sediment Sample	918: Location	2117: Unique extension number	
SEDC01-04-2123	SEDC01: Sediment Core Sample	04: Depth in inches	2123: Unique extension number	
SS1A001-2157	SS: Surface Soil	1A001: Location	2157: Unique extension number	
SUMP35S-2078	SUMP35: Location	S: Sediment	2078: Unique extension number	
SUMP35W-2077	SUMP35: Location	W: Water	2077: Unique extension number	
SW702-294	SW: Surface Water	702: Location	294: Unique extension number	
TB201-2800-05.0-036	TB201: Subsurface Soil sample collected from trench 201	2800: Unique extension	05.0: Sample depth in feet	036: distance (ft) of sample from the 'A' end of the trench (the northern or western most end)
TS203-2808-020	TS203: Surface soil sample collected from trench 203	2808: Unique extension	020: distance (ft) of sample from the 'A' end of the trench (the northern or western most end)	
UNKNOWN1-2451	UNKNOWN1: Sample collected from abandoned drum #1	2451: Unique extension		

Table 3-3
Elevations from 1996 and 1999 Grid Survey of the IWCS
Niagara Falls Storage Site

Point Number	DOE Local Grid Coordinates		NAD 83 Coordinates		4/10/1996 Elevation (amsl)	12/21/1999 Elevation (amsl)	Difference in Elevation
	South	East	Easting	Northing			
1028	975	300	1040927.00	1171658.33	343.07	343.03	-0.04
1029	1025	300	1040927.00	1171608.33	343.84	343.70	-0.14
1030	1075	300	1040927.00	1171558.33	344.65	344.55	-0.10
1031	1125	300	1040927.00	1171508.33	345.00	344.84	-0.16
1032	1175	300	1040927.00	1171458.33	345.24	345.09	-0.15
1033	1225	300	1040927.00	1171408.33	345.47	345.40	-0.07
1034	1300	300	1040927.00	1171333.33	345.98	345.89	-0.09
1035	975	300	1040927.00	1171658.33	338.34	338.34	0.00
1036	1025	300	1040927.00	1171608.33	338.31	338.29	-0.02
1037	1075	300	1040927.00	1171558.33	*338.43*	338.38	-0.05
1038	1125	300	1040927.00	1171408.33	338.63	338.53	-0.10
1039	1175	300	1040927.00	1171458.33	338.46	338.41	-0.05
1040	1225	300	1040927.00	1171408.33	338.55	338.53	-0.02
1041	1300	300	1040927.00	1171333.33	340.70	340.68	-0.02
1043	800	75	1040702.00	1171833.33	333.37	333.38	0.01
1044	900	75	1040702.00	1171733.33	333.85	333.93	0.08
1045	1000	75	1040702.00	1171633.33	333.61	333.66	0.05
1046	1100	75	1040702.00	1171533.33	333.08	333.03	-0.05
1047	1200	75	1040702.00	1171433.33	333.00	332.93	-0.07
1048	1300	75	1040702.00	1171333.33	333.58	333.59	0.01
1049	1400	75	1040702.00	1171233.33	333.72	333.70	-0.02
1050	1500	75	1040702.00	1171133.33	334.39	334.42	0.03
1051	1600	75	1040702.00	1171033.33	338.69	338.74	0.05
1055	800	175	1040802.00	1171833.33	334.63	334.66	0.03
1056	900	175	1040802.00	1171733.33	341.15	341.15	0.00
1057	1000	175	1040802.00	1171633.33	345.01	345.05	0.04
1058	1100	175	1040802.00	1171533.33	344.90	344.78	-0.12
1059	1200	175	1040802.00	1171433.33	345.08	345.03	-0.05
1060	1300	175	1040802.00	1171333.33	345.28	345.31	0.03
1061	1400	175	1040802.00	1171233.33	342.89	342.99	0.10
1062	1500	175	1040802.00	1171133.33	343.05	343.05	0.00
1063	1600	175	1040802.00	1171033.33	339.64	339.62	-0.02
1067	800	275	1040902.00	1171833.33	334.37	334.46	0.09
1068	900	275	1040902.00	1171733.33	341.57	341.59	0.02
1069	1000	275	1040902.00	1171633.33	345.95	345.95	0.00
1070	1100	275	1040902.00	1171533.33	347.01	346.89	-0.12
1071	1200	275	1040902.00	1171433.33	347.21	347.12	-0.09
1072	1300	275	1040902.00	1171333.33	347.78	347.76	-0.02
1073	1400	275	1040902.00	1171233.33	346.90	346.89	-0.01
1074	1500	275	1040902.00	1171133.33	346.59	346.50	-0.09
1075	1600	275	1040902.00	1171033.33	337.37	337.34	-0.03
1079	800	375	1041002.00	1171833.33	333.53	333.49	-0.04
1080	900	375	1041002.00	1171733.33	334.59	334.56	-0.03
1081	1000	375	1041002.00	1171633.33	334.24	334.37	0.13
1082	1100	375	1041002.00	1171533.33	334.70	334.69	-0.01

Table 3-3
Elevations from 1996 and 1999 Grid Survey of the IWCS
Niagara Falls Storage Site

Point Number	DOE Local Grid Coordinates		NAD 83 Coordinates		4/10/1996 Elevation (amsl)	12/21/1999 Elevation (amsl)	Difference in Elevation
	South	East	Easting	Northing			
1083	1200	375	1041002.00	1171433.33	334.92	334.99	0.07
1084	1300	375	1041002.00	1171333.33	337.42	337.45	0.03
1085	1400	375	1041002.00	1171233.33	339.37	339.36	-0.01
1086	1500	375	1041002.00	1171133.33	343.06	343.12	0.06
1087	1600	375	1041002.00	1171033.33	337.65	337.63	-0.02
1090	975	250	1040877.00	1171658.33	347.04	346.99	-0.05
1091	1025	250	1040877.00	1171608.33	348.11	348.07	-0.04
1092	1075	250	1040877.00	1171558.33	348.60	348.48	-0.12
1093	1125	250	1040877.00	1171508.33	348.77	348.61	-0.16
1094	1175	250	1040877.00	1171458.33	348.88	348.77	-0.11
1095	1225	250	1040877.00	1171408.33	349.34	349.25	-0.09
1096	1300	250	1040877.00	1171333.33	349.71	349.64	-0.07
1097	975	200	1040827.00	1171658.33	346.18	346.12	-0.06
1098	1005	200	1040827.00	1171628.33	346.76	346.70	-0.06
1099	1075	200	1040827.00	1171558.33	347.14	347.01	-0.13
1100	1125	200	1040827.00	1171508.33	347.13	346.99	-0.14
1101	1175	200	1040827.00	1171458.33	347.55	347.46	-0.09
1102	1225	200	1040827.00	1171408.33	347.61	347.50	-0.11
1103	1300	200	1040827.00	1171333.33	347.56	347.48	-0.08
1104	975	150	1040777.00	1171658.33	342.32	342.34	0.02
1105	1025	150	1040777.00	1171608.33	342.41	342.39	-0.02
1106	1075	150	1040777.00	1171558.33	341.96	341.84	-0.12
1107	1125	150	1040777.00	1171508.33	342.35	342.28	-0.07
1108	1175	150	1040777.00	1171458.33	342.11	342.01	-0.10
1109	1225	150	1040777.00	1171408.33	342.29	342.25	-0.04
1110	1300	150	1040777.00	1171333.33	342.70	342.65	-0.05

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
501 – Southwest corner of EU 1 and Baker Smith Area	SS501-059	11/07/1999 Phase 1	Cation Exchange Capacity (CEC) Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds near the former welding shop and storehouse where radioactive residue was stored and to investigate the presence and extent of previously identified organic and/or inorganic compounds (LOOW RI) in the soil near this area.
502 – Central portion of EU 1 and Baker Smith Area.	SS502-060	11/16/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds near the former pipe shop and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil near this area.
503 - Central portion of EU 1 and Baker Smith Area.	SS503-064	11/07/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds near the former pipe shop and to investigate the presence and extent of previously identified organic and/or inorganic compounds (LOOW RI) in the soil near this area.
504 - Southeast Corner of Baker Smith Area, southeast of Building 444. EU 1	SS504-692	09/09/2000 Phase 2	Metals Radiological Semivolatiles	To further delineate the extent of chemical and radiological parameters found in TWP503 and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil near this area.
505 - Baker-Smith Area, EU1.	SS505-694	08/26/2000 Phase 2	Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds in the northwestern corner of the Baker Smith area, immediately south of the property line of the Town of Lewiston wastewater treatment plant (WWTP).
506 - Northeast Corner of Baker Smith Area, EU 1.	SS506-696	09/09/2000 Phase 2	Radiological	To further delineate the extent of the radiological parameters found in TWP503 and at the NFSS boundary.
5A001 - Baker-Smith Area, EU 1.	SS5A001-637	08/29/2000 Phase 2	Radiological	To bound the findings from Phase I of the investigation.
5A002 - Baker-Smith Area, EU 1.	SS5A002-638	08/29/2000 Phase 2	Radiological	To bound the findings from Phase I of the investigation.
5A003 - Baker-Smith Area, EU 1.	SS5A003-639	08/29/2000 Phase 2	Radiological	To bound the findings from Phase I of the investigation.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
5A004 - Baker-Smith Area, EU 1.	SS5A004-640	08/29/2000 Phase 2	Radiological	To bound the findings from Phase I of the investigation.
5A005 - Baker-Smith Area, EU 1.	SS5A005-641	08/29/2000 Phase 2	Radiological	To bound the findings from Phase I of the investigation.
5A006 - Baker-Smith Area, EU 1.	SS5A006-642	08/29/2000 Phase 2	Radiological	To bound the findings from Phase I of the investigation.
5A007 - Baker-Smith Area, EU 1.	SS5A007-643	08/29/2000 Phase 2	Radiological	To bound the findings from Phase I of the investigation.
5A008 - Baker-Smith Area, EU 1.	SS5A008-644	08/29/2000 Phase 2	Radiological	To bound the findings from Phase I of the investigation.
5A009 - Baker-Smith Area, EU 1.	SS5A009-2163	09/09/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
5A010 - Baker-Smith Area, EU 1.	SS5A010-2164	09/10/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
5A011 - Baker-Smith Area, EU 1.	SS5A011-2165	09/09/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
5A012 - Baker-Smith Area, EU 1.	SS5A012-2166	09/10/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
5A013 - Baker-Smith Area, EU 1.	SS5A013-2167	09/10/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
5A014 - Baker-Smith Area, EU 1.	SS5A014-2168	09/09/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
5A015 - Baker-Smith Area, EU 1.	SS5A015-2169	09/09/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
5A016 - Baker-Smith Area	SS5A016-2170	09/09/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
5A017 - Baker-Smith Area, EU 1.	SS5A017-2171	09/09/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
5A021 - Baker-Smith Area, EU 1.	SS5A021-2214	09/09/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
EU011 - The NW corner of the NFSS, Baker-Smith area, EU 1.	SSEU011-3327	07/08/2003 Phase 3	PAH Metals PCBs Pesticides Radiological Semivolatiles Volatiles	Collected near sample SD-746 to evluate the presence and extent of organic, inorganic and/or radiological compounds previously identified in the LOOW RI in the soil near this area.
401 – West of Campbell Street between N and O St., EU 2.	SS401-037	11/16/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with two pipes found in the ground during the gamma walkover survey and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil in the Acid Area east of this location.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
402 - East of Campbell Street between N and O St., near the eastern perimeter of EU 2.	SS402-039	11/08/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with two nearby concrete slabs and the former radium vault (located to the north) and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil in the Acid Area near this location.
403 - East of Campbell Street between N and O St., near the southeast perimeter of EU 2.	SS403-040	11/07/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with a former fuel oil storage area and radium vault (Building 433) and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil in the Acid Area near this location.
404 - East of Campbell Street, between N and O St., along the eastern perimeter of EU 2.	SS404-041	11/07/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with a former fuel oil storage area and radium vault (Building 433) and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil in the Acid Area near this location.
405 - East of Campbell Street between N and O St, near former Building 433, EU 2.	SS405-042	11/08/1999 Phase 1	CEC Metals Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with a former fuel oil storage area and radium vault (Building 433) and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil in the Acid Area near this location.
406 – Northeast corner of EU 2, north of former Building 433.	SS406-043	11/16/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with former railroad lines and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil in the Acid Area southeast of this location.
4A001 - Acid Area, EU 2.	SS4A001-598	08/28/2000 Phase 2	Radiological Semivolatiles	To bound the Phase I findings in the Acid Area.
4A002 - Acid Area, EU 2.	SS4A002-600	08/28/2000 Phase 2	Radiological Semivolatiles	To bound the Phase I findings in the Acid Area.
4A003 - Acid Area, EU 2.	SS4A003-601	08/28/2000 Phase 2	Radiological Semivolatiles	To bound the Phase I findings in the Acid Area.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
4A004 - Acid Area, EU 2.	SS4A004-602	08/28/2000 Phase 2	Radiological Semivolatiles	To bound the Phase I findings in the Acid Area.
4A005 - Acid Area, EU 2.	SS4A005-603	08/28/2000 Phase 2	Radiological	To bound the Phase I findings in the Acid Area.
4A006 - Acid Area, EU 2.	SS4A006-604	08/28/2000 Phase 2	Radiological Semivolatiles	To bound the Phase I findings in the Acid Area.
4A007 - Acid Area, EU 2.	SS4A007-605	08/28/2000 Phase 2	Radiological Semivolatiles	To bound the Phase I findings in the Acid Area.
4A008 - Acid Area, EU 2.	SS4A008-606	08/28/2000 Phase 2	Metals Radiological	To bound the Phase I findings in the Acid Area.
4A009 - Acid Area, EU 2.	SS4A009-607	08/28/2000 Phase 2	Radiological	To investigate the presence or absence of radioactive compounds near the former radium vault in the Acid Area.
4A010 - Acid Area, EU 2.	SS4A010-608	08/28/2000 Phase 2	Metals Radiological	To bound the Phase I findings in the Acid Area.
4A011 - Acid Area, EU 2.	SS4A011-610	08/28/2000 Phase 2	Radiological	To bound the Phase I findings in the Acid Area.
4A012 - Acid Area, EU 2.	SS4A012-611	08/28/2000 Phase 2	Metals Radiological	To bound the Phase I findings in the Acid Area.
4A013 - Acid Area, EU 2.	SS4A013-2270	10/05/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4A014 - Acid Area, EU 2.	SS4A014-2271	10/05/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4A015 - Acid Area, EU 2.	SS4A015-2274	10/05/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4A016 - Acid Area, EU 2.	SS4A016-2275	10/05/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4A017 - Acid Area, EU 2.	SS4A017-2276	10/06/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4A018 - Acid Area, EU 2.	SS4A018-2277	10/06/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4A019 - Acid Area, EU 2	SS4A019-2425	11/17/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4A020 - Acid Area, EU 2.	SS4A020-2426	11/13/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
808 – East of the Baker Smith Area in a wooded area, EU 2.	SS808-077	11/08/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of radioactive, organic and/or inorganic compounds in an area that had not previously been investigated. No former LOOW, AEC or DOE operations were known to have occurred in this area.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
809 – East of the Baker Smith Area, along the northern perimeter of EU 2 and the NFSS.	SS809-078	11/16/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds at the property boundary in an area that had not previously been investigated. No former LOOW, AEC or DOE operations were known to have occurred in this area.
810 – Along the south side of N St., 400 feet west of the intersection of N and Campbell Streets, EU 2.	SS810-079	11/30/1999 Phase 1	Nitroaromatics Metals Radiological Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds in an area that had not previously been investigated. No former LOOW, AEC or DOE operations were known to have occurred in this area.
822 – North of O St. between TWP401 and TWP808, EU 2.	SS822-710	09/08/2000 Phase 2	Metals Radiological Semivolatiles	To further delineate the extent of uranium isotopes found in TWP808 and TWP401 and to investigate the presence or absence of organic and/or inorganic compounds in an area that had not previously been investigated. No former LOOW, AEC or DOE operations were known to have occurred in this area.
823 – Northern perimeter of EU 2 and NFSS, near the intersection of N and Campbell Streets.	SS823-711	09/11/2000 Phase 2	Radiological	To further delineate the radium-226 found in TWP406 and TWP810 and to investigate the presence or absence of radioactive compounds at the NFSS boundary in an area that had not previously been investigated. No former LOOW, AEC or DOE operations were known to have occurred in this area.
8E002 - Uninvestigated Area, EU 2.	SS8E002-2199	09/08/2001 Phase 3	Radiological	This sample was located in an area of gamma radiation above background found during the walkover survey.
8F001 - Uninvestigated Area, EU 2.	SS8F001-2201	09/09/2001 Phase 3	Radiological	This sample was located in an area of gamma radiation above background found during the walkover survey.
8F002 - Uninvestigated Area, EU 2.	SS8F002-2202	09/09/2001 Phase 3	Radiological	This sample was located in an area of gamma radiation above background found during the walkover survey.
8F003 - Uninvestigated Area, EU 2.	SS8F003-2203	09/05/2001 Phase 3	Radiological	This sample was located in an area of gamma radiation above background found during the walkover survey.
8F004 - Uninvestigated Area, EU 2.	SS8F004-2205	09/08/2001 Phase 3	Radiological	This sample was located in an area of gamma radiation above background found during the walkover survey.
8F005 - Uninvestigated Area, EU 2.	SS8F005-2206	09/08/2001 Phase 3	Radiological	This sample was located in an area of gamma radiation above background found during the walkover survey.
8F006 - Uninvestigated Area, EU 2.	SS8F006-2207	09/08/2001 Phase 3	Radiological	This sample was located in an area of gamma radiation above background found during the walkover survey.
8F007 - Uninvestigated Area, EU 2.	SS8F007-2208	09/08/2001 Phase 3	Radiological	This sample was located in an area of gamma radiation above background found during the walkover survey.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
DRUM01 - Southeast corner of EU 2, in the Acid Area.	SS-DRUM01-3369	07/08/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To further investigate the contents of the drum.
EU021 - NW quadrant of EU 2, south of N Street.	SS-EU021-3328	07/09/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	Further investigate the extent of organic, inorganic and radiological compounds found in sample 8F001.
EU022 - Central portion of EU 2.	SS-EU022-3329	07/09/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	Further investigate the extent of organic, inorganic and radiological compounds found in sample 8F005.
407 – Northeast of former Building 433, EU 3.	SS407-044	11/08/1999 Phase 1	Metals Nitroaromatics Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of organic and/or inorganic compounds associated with a hummocky area near former railroad lines and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil in the Acid Area southeast of this location.
408 - Southest perimeter of EU 3, near former Building 433.	SS408-045	11/17/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of chemical and radiological compounds in the soil associated with a former fuel storage area and former Building 433.
4B001- Acid Area, EU 3.	SS4B001-612	08/28/2000 Phase 2	Radiological Semivolatiles	To bound the Phase I findings in the Acid Area.
4B002- Acid Area, EU 3.	SS4B002-613	08/28/2000 Phase 2	Radiological	To bound the Phase I findings in the Acid Area.
4B003- Acid Area, EU 3.	SS4B003-614	08/28/2000 Phase 2	Metals Radiological Semivolatiles	To bound the Phase I findings in the Acid Area.
4B004- Acid Area, EU 3.	SS4B004-615	08/28/2000 Phase 2	Radiological Semivolatiles	To bound the Phase I findings in the Acid Area.
4B005- Acid Area, EU 3.	SS4B005-616	08/28/2000 Phase 2	Metals Radiological Semivolatiles	To bound the Phase I findings in the Acid Area.
4B006- Acid Area, EU 3.	SS4B006-617	08/28/2000 Phase 2	Radiological Semivolatiles	To bound the Phase I findings in the Acid Area.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
4B007- Acid Area, EU 3.	SS4B007-2278	10/04/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4B008- Acid Area, EU 3.	SS4B008-2279	10/04/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4B009- Acid Area, EU 3.	SS4B009-2280	10/04/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4B010- Acid Area, EU 3	SS4B010-2282	10/04/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4B012- Acid Area, EU 3.	SS4B012-2284	10/04/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4B013- Acid Area, EU 3.	SS4B013-2285	10/04/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4B014- Acid Area, EU 3.	SS4B014-2288	10/04/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4B015- Acid Area, EU 3.	SS4B015-2289	10/07/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4B016- Acid Area, EU 3.	SS4B016-2290	10/04/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4B017- Acid Area, EU 3.	SS4B017-2291	10/04/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4B019- Acid Area, EU 3.	SS4B019-2293	10/04/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4B020- Acid Area, EU 3.	SS4B020-2294	10/04/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4B021- Acid Area, EU 3.	SS4B021-2295	10/04/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
EU031 - Northeast quadrant of EU 3, near MH 19.	SS-EU031-3330	07/09/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	Further investigate the extent of organic, inorganic and radiological compounds found in sample 4B009.
EU032 - Southeast quadrant of EU 3, near PIPE 72.	SS-EU032-3331	07/09/2003 Phase 3	PAH Semivolatiles Metals Radiological	Further investigate the extent of organic, inorganic and radiological compounds found in sample 4B009.
EU033 - West central portion of EU 3.	SS-EU033-3332	07/09/2003 Phase 3	PAH Semivolatiles Metals	To investigate the areal distribution of chemical compounds in the Acid Area.
EU034 - North central portion of EU 3, south of N Street.	SS-EU034-3333	07/09/2003 Phase 3	PAH Semivolatiles Metals	To investigate the areal distribution of chemical compounds in the Acid Area.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
313 – Near intersection of O St. and Castle Garden Rd., EU 4.	SS313-687	09/15/2000 Phase 2	PCBs Pesticides Radiological Semivolatiles Volatiles	To investigate the potential presence or absence of organic and/or inorganic compounds at the property boundary near the location of a 1953 explosion and fire east of the NFSS. This location is also south of the sampling location where PCB compounds identified in the soil at TWPs 4D010, 417 and 413.
408 - Trench, located south of N Street, just E of the Castle Garden and N Street intersection, EU 4	TS408-2860-007	05/16/2002 Phase 3	Radiological	This trench investigated the debris pile south of "N" Street and east of the Castle Garden Road cut-through in the former Acid area. The location of the trench examined a ferrous zone anomaly FZ328 that was reported in the geophysical investigation of the area.
409 – Western perimeter of EU 4, south in the central Acid Area and west of former Buildings 431 and 432.	SS409-046	11/30/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with sulfuric acid storage and Building 432 and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil in the Acid Area near this location.
410 - Northwest corner of EU 4, north –central Acid Area, northwest of former Buildings 431 and 432	SS410-047	11/30/1999 Phase 1	Nitroaromatics Metals Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of radioactive, organic and/or inorganic compounds in a hummocky area near former rail lines, tank cradles and Buildings 431 and 432 and to investigate the presence and extent of previously identified compounds (LOOW RI) in the Acid Area near this location.
411 – Northwest of the intersection of N St. and Castle Garden Rd., north-central perimeter of EU 4.	SS411-048	11/16/1999 Phase 1	CEC Nitroaromatics Metals Pesticides, PCBs Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds along the northern NFSS boundary. This location received run-off from the CWM property and was north of the Acid Area where previously identified compounds were located (LOOW RI).
412 - Acid Area, EU 4.	SS412-049	11/22/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of chemical and radiological compounds in the soil near former Buildings 431 and 432.
413 - Acid Area, EU 4.	SS413-050	11/22/1999 Phase 1	CEC Nitroaromatics Metals Pesticides, PCBs Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of chemical and radiological compounds in the soil near former Buildings 431 and 432.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
414 - Acid Area, EU 4.	SS414-051	12/02/1999 Phase 1	Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of chemical and radiological compounds in the soil near former Building 432 and sulfuric acid storage area.
415 - Central Acid Area, north of O Street and east of former Building 431, EU 4.	SS415-052	11/30/1999 Phase 1	CEC Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds near the former nitric acid concentrator and Buildings 431 and 432 and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil near this location.
416 - Acid Area, EU 4.	SS416-053	12/03/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of radioactive, organic and/or inorganic compounds near the former nitric acid concentrator and Buildings 431 and 432 and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil near this location.
417 – South-central Acid Area, north of the intersection of O St. and Castle Garden Rd., EU 4.	SS417-054	11/30/1999 Phase 1	CEC Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of radioactive, organic and/or inorganic compounds near a concrete slab and potential UST and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil near this location.
419 - Acid Area, EU 4.	SS419-056	12/01/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of radioactive, organic and/or inorganic compounds near the former nitric acid concentrator and Buildings 431 and 432 and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil near this location.
422 – Southern perimeter of EU 4, along O St., 400 feet east of its intersection with Castle Garden Rd.	SS422-688	09/09/2000 Phase 2	Radiological	To investigate the potential presence or absence of radioactive compounds along the southern boundary of the NFSS along the former haul road and rail line for the K-65 waste.
425 – Northwest corner of EU 4 along the northern NFSS boundary.	SS425-691	09/11/2000 Phase 2	Nitroaromatics Radiological Volatiles	To investigate the presence of organic and/or radioactive compounds along the northern NFSS boundary.
4C001 - Acid Area, EU 4.	SS4C001-618	08/29/2000 Phase 2	Metals PCBs Pesticides Radiological Semivolatiles	To investigate the presence of radioactive, organic and/or inorganic compounds along the northern NFSS boundary.
4C002 - Acid Area, EU 4.	SS4C002-2298	10/05/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
4C003 - Acid Area, EU 4.	SS4C003-2299	10/05/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4C004 - Acid Area, EU 4.	SS4C004-2300	10/05/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4C005 - Acid Area, EU 4.	SS4C005-2302	10/05/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4C006 - Acid Area, EU 4.	SS4C006-2303	10/05/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4D005 - Central Acid Area, south of TWP415 concentrator, east of the uranium vaults, EU 4.	SS4D005-619	09/13/2000 Phase2	Metals PCBs Pesticides Radiological Semivolatiles	To investigate the extent of the chemical and radiological compounds found in the groundwater at TWP415.
4D006 - Acid Area, EU 4.	SS4D006-620	09/14/2000 Phase 2	Radiological	To bound the Phase I findings in the Acid Area.
4D007 - Acid Area, EU 4.	SS4D007-621	08/28/2000 Phase 2	Metals PCBs Pesticides Radiological Semivolatiles	To investigate the presence of radioactive, organic and/or inorganic compounds along the northern NFSS boundary.
4D008 - Acid Area, EU 4.	SS4D008-623	08/28/2000 Phase 2	Metals PCBs Pesticides Radiological Semivolatiles	To investigate the presence of radioactive, organic and/or inorganic compounds along the northern NFSS boundary.
4D009 - Acid Area, EU 4.	SS4D009-625	08/28/2000 Phase 2	Radiological	To bound the Phase I findings in the Acid Area.
4D010 - Acid Area, EU 4.	SS4D010-626	08/28/2000 Phase 2	PCBs Pesticides Radiological Semivolatiles	To investigate the presence of radioactive and/or organic compounds along the northern NFSS boundary.
4D011 - Acid Area, EU 4.	SS4D011-627	08/28/2000 Phase 2	Radiological	To bound the Phase I findings in the Acid Area.
4D012 - Acid Area, EU 4.	SS4D012-628	08/28/2000 Phase 2	Radiological	To bound the Phase I findings in the Acid Area.
4D013 - Acid Area, EU 4.	SS4D013-629	08/28/2000 Phase 2	PCBs Pesticides Radiological Semivolatiles	To investigate the presence of organic and/or radioactive compounds along the northern NFSS boundary.
4D014 - Acid Area, EU 4.	SS4D014-630	08/28/2000 Phase 2	Radiological	To bound the Phase I findings in the Acid Area.
4D015 - Acid Area, EU 4.	SS4D015-631	08/28/2000 Phase 2	PCBs Pesticides Radiological Semivolatiles	To investigate the presence of organic and/or radioactive compounds along the northern NFSS boundary.
4D017 - Acid Area, EU 4.	SS4D017-2306	10/05/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4D018 - Acid Area, EU 4.	SS4D018-2307	10/05/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
4D019 - Acid Area, EU 4.	SS4D019-2308	10/05/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4D020 - Acid Area, EU 4.	SS4D020-2309	10/05/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4F001 - Acid Area, EU 4.	SS4F001-633	08/27/2000 Phase 2	PCBs Pesticides Radiological	To investigate the presence of organic and/or radioactive compounds along the northern NFSS boundary.
4F002 - Acid Area, EU 4.	SS4F002-634	08/27/2000 Phase 2	PCBs Pesticides Radiological	To investigate the presence of organic and/or radioactive compounds along the northern NFSS boundary.
4F004 - Acid Area, EU 4.	SS4F004-636	08/27/2000 Phase 2	PCBs Pesticides Radiological	To investigate the presence of organic and/or radioactive compounds along the northern NFSS boundary.
4F009 - Acid Area, EU 4.	SS4F009-2315	10/06/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4F010 - Acid Area, EU 4.	SS4F010-2428	11/14/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4F011 - Acid Area, EU 4.	SS4F011-2429	11/14/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
4G001 - Acid Area, EU 4.	SS4G001-2316	10/06/2001 Phase 3	Radiological	Investigate the horizontal extent of radiological activity above background found during the gamma walkover.
DRUM02 - Central portion of EU 4, near Well 415A, in the Acid Area.	SS-DRUM02-3372	07/08/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To further investigate the contents of the drum.
DRUM04 - Central portion of EU 4, in the Acid Area.	SS-DRUM04-3378	07/09/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To further investigate the contents of the drum.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
DRUM05 - Northeast quadrant of EU 4, in the Acid Area, south of N Street, and Southeast of Trench 408.	SS-DRUM05-3381	07/09/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To further investigate the contents of the drum.
DRUM06 - Northeast quadrant of EU 4, in the Acid Area, east of MW423.	SS-DRUM06-3395	07/12/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To further investigate the contents of the drum.
DRUM07 - West central portion of EU 4, in the Acid Area.	SS-DRUM07-3398	07/12/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To further investigate the contents of the drum.
MW422 - Central portion of EU 4, in the Acid Area.	SS-MW422-3608	09/17/2003 Phase 3	PAH Nitroaromatics Semivolatiles Volatiles Metals PCBs Pesticides Radiological	Other samples from the area contained chlorinated solvents. The purpose of this sample was to delineate the horizontal extent of other chemical and radiological compounds.
MW423 - Northeast central portion of EU 4, in the Acid Area, southeast of Trench 408.	SS-MW423-3611	09/16/2003 Phase 3	PAH Nitroaromatics Semivolatiles Volatiles Metals PCBs Pesticides Radiological	Other samples from the area contained chlorinated solvents. The purpose of this sample was to delineate the horizontal extent of other chemical and radiological compounds.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
MW424 - North central portion of EU 4, just north of N Street, and east of Castle Garden Road.	SS-MW424-3620	09/22/2003 Phase 3	PAH Nitroaromatics Semivolatiles Volatiles Metals PCBs Pesticides Radiological	Other samples from the area contained chlorinated solvents. The purpose of this sample was to delineate the horizontal extent of other chemical and radiological compounds.
418 - Acid Area, EU 5.	SS418-055	12/01/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence of radioactive, organic and/or inorganic compounds along the northern NFSS boundary.
420 – Southern perimeter of EU 5,along O St., 800 feet east of its intersection with Castle Garden Rd.	SS420-057	11/17/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with the ammonia manufacturing plant and a 1953 explosion and fire site and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil west of this location.
421 - Acid Area, EU 5.	SS421-058	12/01/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon	To investigate the presence of radioactive, organic and/or inorganic compounds along the northern NFSS boundary.
423 - Southern perimeter of EU 5, along O St., west of BH60	SS423-689	09/12/2000 Phase 2	Metals Radiological Semivolatiles	To investigate the potential presence or absence of radioactive, organic and/or inorganic compounds along the southern boundary of the NFSS along the former haul road, rail line for the K-65 waste and the location of a drum storage and handling area.
424 – Northern perimeter of EU 5 and NFSS, east of BH51	SS424-690	09/09/2000 Phase 2	Radiological	To investigate the potential presence or absence of radioactive compounds along the northern boundary of the NFSS near the former haul road for the K-65 waste.
4F003 - Eastern edge of Acid Area, EU 5.	SS4F003-635	08/27/2000 Phase 2	PCBs Pesticides Radiological	Investigate the presence or absence of chemical and/or radiological compounds near a tank cradle.
4F005 - North-Central Panhandle, EU 5.	SS4F005-2311	10/06/2001 Phase 3	Radiological	To investigate the presence or absence of radiological compounds near a depressed wetland area.
4F006 - South-Central Panhandle, EU 5.	SS4F006-2312	10/06/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
4F007 - South-Central Panhandle, EU 5.	SS4F007-2313	10/06/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
4F008 - Central Panhandle, EU 5.	SS4F008-2314	10/06/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
4G002 - North-Central Panhandle, EU 5.	SS4G002-2365	10/07/2001 Phase 3	Radiological	To investigate the potential presence or absence of radioactive compounds near the northern boundary of the NFSS near the former haul road for the K-65 waste.
601 - Eastern portion of EU 5, near former Building 434 location, south of N Street.	SS601-065	12/02/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of chemical and radiological compounds east of the Acid Area and west of former Building 434 which stored radioactive residue.
605 – South and adjacent to O St. and south of 604. EU 5.	SS605-697	09/11/2000 Phase 2	Metals Radiological	To further delineate the extent of the gamma radiation, uranium isotopes and metals found at TWP603.
6A001 - Formerly uninvestigated area, west of former Building 434, in SE corner of EU 5.	SS6A001-2317	10/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
6A002 - Formerly uninvestigated area, west of former Building 434, in SE corner of EU 5.	SS6A002-2319	10/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
6A003 - Formerly uninvestigated area, west of former Building 434, in SE corner of EU 5.	SS6A003-2320	10/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
6A004 - Formerly uninvestigated area, west of former Building 434, in SE corner of EU 5.	SS6A004-2321	10/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
6A006 - Formerly uninvestigated area, west of former Building 434, in SE corner of EU 5.	SS6A006-2325	10/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
6A007 - Formerly uninvestigated area, west of former Building 434, in SE corner of EU 5.	SS6A006-2327	10/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
6A008 - Formerly uninvestigated area, west of former Building 434, in SE corner of EU 5.	SS6A008-2328	10/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
6A009 - Formerly uninvestigated area, west of former Building 434, in SE corner of EU 5.	SS6A009-2329	10/07/2001 Phase 3	Radiological	This sample location was randomly selected to provide sufficient and representative radiological data to characterize this EU.
6A010 - Formerly uninvestigated area, west of former Building 434, in SE corner of EU 5.	SS6A010-2364	10/07/2001 Phase 3	Radiological	This sample location was randomly selected to provide sufficient and representative radiological data to characterize this EU.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
811 - NE corner of EU 5, formerly uninvestigated area	SS811-080	12/02/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds at the NFSS boundary in an area that had not previously been investigated and to provide sufficient and representative data to characterize the EU.
8G005 - NE corner of EU 5, formerly uninvestigated area	SS8G005-2347	10/06/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
EU051 - Northwest quadrant of EU 5, along N Street.	SS-EU051-3334	07/10/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	Delineate the horizontal extent of chemical and radiological compounds found in sample 6A001.
602 – Southwest corner of EU 6 , north of N St. and southwest of former Building 434.	SS602-066	11/16/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the potential presence or absence of radioactive, organic and/or inorganic compounds near the former water storage tower where K-65 wastes were stored and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil west of this area.
603 – Near the former location of Building 434, south of N St., EU 6.	SS603-068	11/16/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the potential presence or absence of radioactive, organic and/or inorganic compounds near the former water storage tower where K-65 wastes were stored and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil west of this area.
604 - Southeast of the former Building 434, EU 6.	SS604-069	11/07/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon	To investigate the potential presence or absence of radioactive, organic and/or inorganic compounds near the former water storage tower where K-65 wastes were stored and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil west of this area.
606 - SE corner of EU 6, SE of the O and McArthur Street corner.	SS606-698	08/25/2000 Phase 2	Radiological	This sample point is located near the Modern Landfill property line southeast of the former radiological residue storage tower location. This general area is also south of the former "thaw house."

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
607 – East of McArthur St. along the eastern NFSS perimeter, near BH63 and BH57, EU 6.	SS607-699	09/11/2000 Phase 2	Metals Radiological Semivolatiles Volatiles	To further delineate the extent of gamma radiation, metals and radiological parameters found in TWP503, to investigate the presence or absence of organic and/or inorganic compounds at the NFSS boundary and to provide sufficient and representative data for characterization of this EU. This sample point is located southwest of the extraction wells for the CWM property.
6A005 - Former Building. 434 area, EU 6.	SS6A005-2323	10/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
6A007 - Former Building. 434 area, EU 6.	SS6A007-2327	10/07/2001 Phase 3	Radiological	This sample location was randomly selected to provide sufficient and representative radiological data to characterize this EU.
6B001 - Former Building. 434 area, EU 6.	SS6B001-2330	10/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
6B002 - Former Building. 434 area, EU 6.	SS6B002-2331	10/07/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
6B003 - Former Building. 434 area, EU 6.	SS6B003-2332	10/07/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
6B004 - Former Building. 434 area, EU 6.	SS6B004-2333	10/07/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
6B005 - Former Building. 434 area, EU 6.	SS6B005-2335	10/06/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
6B006 - Former Building. 434 area, EU 6.	SS6B006-2336	10/06/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
6C001 - Former Building. 434 area, EU 6.	SS6C001-2337	10/06/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
6C002 - Former Building. 434 area, EU 6.	SS6C002-2338	10/06/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
6C003 - Former Building. 434 area, EU 6.	SS6C003-2339	10/06/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
6C004 - Former Building. 434 area, EU 6.	SS6C004-2340	10/06/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
6C005 - Former Building. 434 area, EU 6.	SS6C005-2341	10/06/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
6C006 - Former Building. 434 area, EU 6.	SS6C006-2342	10/06/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
812 - Formerly uninvestigated area, north of N Street, EU 6.	SS812-084	11/08/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of radioactive, organic and/or inorganic compounds in an area that had not previously been investigated and to provide sufficient and representative data to characterize the EU.
824 - Formerly uninvestigated area, north of N Street, along Northern property line, EU 6.	SS824-712	09/11/2000 Phase 2	Radiological	To investigate the presence or absence of radioactive compounds at the NFSS boundary in an area that had not previously been investigated and to provide sufficient and representative data to characterize the EU.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
825 - Northeast corner of EU 6 and NFSS property line, northeast former Building 434.	SS825-713	09/11/2000 Phase 2	Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds at the NFSS boundary in an area that had not previously been investigated and to provide sufficient and representative data to characterize the EU.
828 - Former Building 434 area, along Eastern property line, EU 6.	SS828-407	08/31/2000 Phase 2	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
829 - Former Building 434 area, along Eastern property line, EU 6.	SS829-409	09/15/2000 Phase 2	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8G001 - Formerly uninvestigated area, north of N Street, EU 6	SS8G001-2343	10/06/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
8G002 - Formerly uninvestigated area, north of N Street, EU 6.	SS8G002-2344	10/06/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
8G003 - Formerly uninvestigated area, north of N Street, EU 6.	SS8G003-2345	10/06/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
8G004 - Formerly uninvestigated area, north of N Street, EU 6.	SS8G004-2346	10/06/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
EU061 - Southeast corner of EU 6, just west of MacArthur Street.	SS-EU061-3335	07/10/2003 Phase 3	Metals Radiological	Delineate the horizontal extent of chemical and radiological compounds found at sample location 829.
EU062 - Southeast corner of EU 6, just inside the corner of Mac Arthur Street.	SS-EU062-3336	07/10/2003 Phase 3	Metals Radiological	Delineate the horizontal extent of chemical and radiological compounds found at sample location 829.
806 – North of the IWCS and adjacent to the former dewatering Pond 4, EU 7.	SS806-075	11/06/1999 Phase 1	CEC Metals Radiological Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds and potential migration associated with the IWCS and the former DOE dewatering Pond 4 and to provide sufficient and representative data to characterize the EU. No previous data was obtained near this location.
807 – North of the IWCS and within the former DOE organic burial area, EU 7.	SS807-076	11/06/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds and any potential migration associated with the IWCS and the former DOE organic burial area.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
820 - North of the IWCS in the DOE area designated as Disposal Area B, EU 7.	SS820-708	09/08/2000 Phase 2	Radiological	To further delineate the extent of radium-226 found in TWP806 and TWP807. Documentation of confirmation sampling was not found during the records search.
821 – North of the IWCS, on the western perimeter of EU 7 and NFSS boundary.	SS821-709	09/08/2000 Phase 2	Radiological	To investigate the potential extent and migration of radioactive compounds near the IWCS in an area previously remediated. Documentation of confirmation sampling was not found during the records search. This location is west of TWP807.
8C001 - Former DOE WTP area, EU 7.	SS8C001-2184	09/06/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8C002 - Former DOE WTP area, EU 7.	SS8C002-2185	09/06/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8C004 - Former DOE WTP area, EU 7.	SS8C004-2187	09/06/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8D001 - Former DOE WTP area, EU 7.	SS8D001-2188	09/06/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8D002 - Former DOE WTP area, EU 7.	SS8D002-2189	09/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8D003 - Former DOE WTP area, EU 7.	SS8D003-2190	09/05/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8D004 - Former DOE WTP area, EU 7.	SS8D004-2191	09/05/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8D005 - Former DOE WTP area, EU 7.	SS8D005-2192	09/05/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8D006 - Former DOE WTP area, EU 7.	SS8D006-2193	09/05/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8D007 - Former DOE WTP area, EU 7.	SS8D007-2195	09/05/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8D008 - Former DOE WTP area, EU 7.	SS8D008-2196	09/05/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8D009 - Former DOE WTP area, EU 7.	SS8D009-2197	09/10/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8E001 - Former DOE WTP area, EU 7.	SS8E001-2198	09/06/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8E003 - Former DOE WTP area, EU 7.	SS8E003-2200	09/09/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
EU071 - Southeast quadrant of EU 7, east of Campbell Street.	SS-EU071-3337	07/10/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	Delineate the chemical and radiological compounds found at sample locations 8D006 and 8D009.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
EU072 - North central portion of EU 7, just south of O Street.	SS-EU072-3338	07/10/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	Delineate the chemical and radiological compounds found at sample loactions 8D006 and 8D009.
TWP835 - Northwest quadrant of EU 7, southwest of the intersection of Lutts Road and West Patrol Road.	SS-TWP835-3515	09/20/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former Disposal Area east of Lutz Road.
TWP836 - Southwest quadrant of EU 7, just northeast of the intersection of Lutts Road and the road that encircles the IWCS.	SS-TWP836-3518	09/21/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former Organic Burial Area.
TWP837 - Central portion of EU 7, north of the IWCS.	SS-TWP837-3521	09/21/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former Pond 3.
TWP838 - South central portion of EU 7, south of the road that encircles the IWCS.	SS-TWP838-3524	09/30/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former Disposal Area north of the IWCS.
TWP840 - Southeast portion of EU 7, northeast of the corner of the road that encircles the IWCS.	SS-TWP840-3530	09/18/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former Pond 4.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
301 - Southern Shop Area, southeast of Building 422, and north of the South 16 Ditch, EU 8.	SS301-025	12/01/1999 Phase 1	Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of organic and/or radioactive compounds associated with a trench of unknown origin present at this location and to provide sufficient and representative data to characterize this EU.
302 - Eastern perimeter of EU 8 and NFSS, near former K-65 drum storage area.	SS302-026	11/18/1999 Phase 1	CEC Nitroaromatics Metals Pesticides, PCBs Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with a nearby concrete rubble pile and the former K-65 drum storage area, to investigate the extent of previously identified compounds (LOOW RI) in the soil near this area, and to investigate potential migration of these compoounds near the property boundary.
303 - In the central Shop Area, along the south side of Z St., EU 8.	SS303-027	12/01/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with a possible fuel oil pipeline, UST and former uranium rod storage area and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil near this area.
304 - In the central Shop Area, east of the former change house and uranium rod storage area, EU 8.	SS304-028	12/01/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with a possible fuel oil pipeline, railroad bed and former uranium rod storage area and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil near this area.
305 - Eastern half of the former Shop Area, west of Castle Garden Road, EU 8.	SS305-029	12/02/1999 Phase 1	CEC Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with a trench of unknown origin present at this location.
306 - Northeast corner of EU 8 and Shop Area, south of O St. and east of the former Building 430.	SS306-030	12/02/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with the combined shop and nearby locomotive shop, to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil near this area and to investigate potential migration of compounds near the property boundary.
307 - Northeast quadrant of EU 8 and Shop Area, south of X St. and the former Building 430.	SS307-031	12/02/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with a trench of unknown origin present at this location.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
308 - Northeast quadrant of EU 8 and Shop Area, north and adjacent to the former Building 430.	SS308-032	11/17/1999 Phase 1	CEC Nitroaromatics Metals Pesticides, PCBs Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with Building 430 and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil near this area.
309 - North-central quadrant of EU 8 and Shop Area, north and adjacent to the former Building 430.	SS309-033	11/17/1999 Phase 1	CEC Nitroaromatics Metals Pesticides, PCBs Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with Building 430 and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil near this area.
310 – Central Shop Area, south of X St. and near former changes houses, EU 8.	SS310-034	12/02/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with the change houses (titanium alloys stored) and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil near this area.
311 – Northwest corner of EU 8 and Shop Area, north of X St.	SS311-035	11/18/1999 Phase 1	Metals Pesticides, PCBs Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with the riggers shop (former uranium dust storage area) and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil near this area.
312 – West side of EU 8 and Shop Area, north of Z St. and near the former LOOW service house.	SS312-036	11/18/1999 Phase 1	Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of organic and/or radioactive compounds associated with the service house and to investigate the presence and extent of previously identified compounds (LOOW RI) in the soil near this area.
314 - NE corner of the former Shops Area, EU 8.	SS314-404	09/14/2000 Phase 2	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3A001 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A001-555	08/25/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3A002 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A002-556	08/25/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
3A003 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A003-557	08/25/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3A004 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A004-559	08/25/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3A005 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A005-560	08/25/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3A006 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A006-561	08/25/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3A007 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A007-562	08/25/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3A008 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A008-563	08/25/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3A009 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A009-565	08/25/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3A010 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A010-566	08/25/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3A011 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A011-567	08/25/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3A012 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A012-568	08/25/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
3A013 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A013-569	08/25/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3A014 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A014-570	08/25/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3A015 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A015-571	08/25/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3A016 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A016-572	08/25/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3A017 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A017-2162	09/08/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3A020 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A020-2389	11/16/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3A021 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A021-2392	11/16/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3A022 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A022-2393	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3A023 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A023-2394	11/16/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3A024 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A024-2395	11/16/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3A025 - Western half of the former Shops Area, North of Z Street and East of Campbell Street, EU 8.	SS3A025-2397	11/16/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
3B001 - Northern half of the former Shops Area, between O Street and 8th Street, EU 8.	SS3B001-573	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3B002 - Northern half of the former Shops Area, along 8th Street, EU 8.	SS3B002-575	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3B003 - Central portion of EU 8, along Z Street, near the former gas station and former Building 422.	SS3B003-576	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3B004 - Central portion of EU 8, along Z Street, near the former gas station and former Building 422.	SS3B004-577	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3B005 - Central portion of EU 8, along Z Street, near the former gas station and former Building 422.	SS3B005-578	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3B006 - Central portion of EU 8, along Z Street, near the former gas station and former Building 422.	SS3B006-579	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3B007 - Central portion of EU 8, along Z Street, near the former gas station and former Building 422.	SS3B007-580	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3B008 - Central portion of EU 8, along Z Street, near the former gas station and former Building 422.	SS3B008-581	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3B009 - Central portion of EU 8, along Z Street, near the former gas station and former Building 422.	SS3B009-582	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3B010 - Central portion of EU 8, along Z Street, near the former gas station and former Building 422.	SS3B010-583	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
3B011 - Central portion of EU 8, along Z Street, near the former gas station and former Building 422.	SS3B011-2398	11/15/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
3B012 - Central portion of EU 8, along Z Street, near the former gas station and former Building 422.	SS3B012-2401	11/15/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3B013 - Central portion of EU 8, along Z Street, near the former gas station and former Building 422.	SS3B013-2402	11/15/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3B014 - Central portion of EU 8, along Z Street, near the former gas station and former Building 422.	SS3B014-2404	11/15/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3B016 - Central portion of EU 8, along Z Street, near the former gas station and former Building 422.	SS3B016-2406	11/15/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3B018 - Central portion of EU 8, along Z Street, near the former gas station and former Building 422.	SS3B018-2409	11/15/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
3B019 - Central portion of EU 8, along Z Street, near the former gas station and former Building 422.	SS3B019-2410	11/15/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
3C001 - North central portion of EU 8, in the wooded area between O Street and the drum pad.	SS3C001-584	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3C002 - North central portion of EU 8, in the wooded area between O Street and the drum pad.	SS3C002-585	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3C003 - North central portion of EU 8, in the wooded area between O Street and the drum pad.	SS3C003-586	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3C004 - North central portion of EU 8, in the wooded area between O Street and the drum pad.	SS3C004-587	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
3C005 - North central portion of EU 8, in the wooded area between O Street and the drum pad.	SS3C005-588	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3C006 - North central portion of EU 8, along the road located north of the drum pad.	SS3C006-589	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3C007 - North central portion of EU 8, along the road located north of the drum pad.	SS3C007-590	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3C008 - North central portion of EU 8, along the road located north of the drum pad.	SS3C008-591	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3C009 - Central portion of EU 8 and former Shop Area, along the southern edge of the drum pad.	SS3C009-592	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3C010 - In the central portion of EU 8, along the southern edge of the drum pad.	SS3C010-593	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3C011 - Central portion of EU 8, along the southern edge of the drum pad.	SS3C011-594	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3C012 - Central portion of EU 8, along the southern edge of the drum pad.	SS3C012-596	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3C013 - Central portion of EU 8, along the southern edge of the drum pad.	SS3C013-597	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
3C014 - Central portion of EU 8, along X Street, just NE of 7th Street.	SS3C014-2411	11/16/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3C015 - North central portion of EU 8, along the road located north of the drum pad.	SS3C015-2412	11/16/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
3C016 - Central portion of EU 8, NE of the intersection of 7th Street and Z Street.	SS3C016-2413	11/17/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
3D001 - East-central portion of EU 8, along the property boundary line and Castle Garden Road.	SS3D001-2414	11/16/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3D002 - East-central portion of EU 8, along the property boundary line and Castle Garden Road.	SS3D002-2415	11/16/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3D003 - East-central portion of EU 8, along the property boundary line and Castle Garden Road.	SS3D003-2416	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3D004 - East-central portion of EU 8, along the property boundary line and Castle Garden Road.	SS3D004-2418	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3D005 - Northeast quadrant of EU 8, along the eastern edge of the drum pad.	SS3D005-2419	11/16/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3D006 - Northeast quadrant of EU 8, on the NE corner of the drum pad.	SS3D006-2420	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3D007 - Northeast portion of EU 8, in the wooded area between O Street and the drum pad, just west of 6th Street.	SS3D007-2421	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3D008 - Northeast portion of EU 8, in the wooded area between O Street and the drum pad, just west of 6th Street.	SS3D008-2422	11/16/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3D009 - Southeast portion of EU 8, at the intersection of Z Street and O Street.	SS3D009-2423	11/16/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
EU081 - Southwest quadrant of EU 8, east of Campbell Street and south of Z Street.	SS-EU081-3339	07/11/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To imvestigate a debris pile.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
MW313 - Southeast central portion of EU 8, on the west side of the debris pile.	SS-MW313-3590	09/17/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate chemical and radiological compounds associated with MW302A that were discovered in previous phases of this RI.
MW314 - South of debris pile, EU 8.	SS-MW314-3593	09/17/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate chemical and radiological compounds associated with MW302A that were discovered in previous phases of this RI.
101 - Western perimeter of NFSS and EU 10, west of the IWCS.	SS101-684	09/08/2000 Phase 2	Radiological	To investigate the potential extent and migration of radiological compounds in an area previously remediated. Documentation of confirmation sampling was not found during the records search. This location was located north of sediment sample SD703.
102 - Western perimeter of NFSS and EU 10, west of the IWCS.	SS102-685	09/08/2000 Phase 2	Metals Radiological Semivolatiles	To confirm previous remediation of the area and provide a representative number of sampling points in this EU. Documentation of confirmation sampling was not found during the records search.
103 - Western perimeter of NFSS and EU 10, west of the IWCS.	SS103-686	09/08/2000 Phase 2	Metals Radiological	To confirm previous remediation of the area and provide a representative number of sampling points in this EU. Documentation of confirmation sampling was not found during the records search.
1A001 - Northwest portion of EU 10 and the IWCS.	SS1A001-2157	09/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
1A002 - Western portion of EU 10 and the IWCS.	SS1A002-2158	09/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
1B001 - Western portion of EU 10 and the IWCS .	SS1B001-2159	09/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
1B002 - Southwest portion of EU 10 and the IWCS.	SS1B002-2160	09/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8C003 - Northwest portion of EU 10 and the IWCS.	SS8C003-2186	09/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
EU101 - North-central portion of EU 10, south of the road that encircles the IWCS.	SS-EU101-3343	07/11/2003 Phase 3	PAH Metals PCBs Pesticides Radiological Semivolatiles Volatiles	To investigate the presence and extent of chemical and radiological compounds previously identified in the LOOW RI. This area was not part of any previous radiological investigation at the site.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
EU102 - South of the IWCS, inside the road that encircles it, and just north of TWP855, EU 10.	SS-EU102-3344	07/11/2003 Phase 3	PAH Metals PCBs Pesticides Radiological Semivolatiles Volatiles	To investigate the presence and extent of chemical and radiological compounds previously identified in the LOOW RI. This area was not part of any previous radiological investigation at the site.
EU103 - East of the IWCS, outside of the road that encircles the IWCS and just south of TWP844, EU 10.	SS-EU103-3345	07/11/2003 Phase 3	PAH Metals PCBs Pesticides Radiological Semivolatiles Volatiles	This sample was located west of the Central Ditch, near OW11B, where elevated readings were discovered in previous phases of the RI.
MW861 - Well cluster MW860/861 located inside the fenced area of the IWCS on the east side, EU 10.	SS-MW861-3599	09/20/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS.
MW862 - Well cluster MW862/863 located inside the fenced area of the IWCS on the east side, EU 10.	SS-MW862-3602	09/20/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS.
MW863 - Well cluster MW862/863 located inside the fenced area of the IWCS on the east side, EU 10.	SS-MW863-3605	09/20/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS.
TWP830 - Southwest corner of the IWCS, EU 10.	SS-TWP830-3500	10/02/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
TWP831 - Within the fenced area of the IWCS, south of the IWCS, EU 10.	SS-TWP831-3503	10/02/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS.
TWP832 - Within the fenced area of the IWCS, south of the IWCS, EU 10.	SS-TWP832-3506	10/02/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS.
TWP833 - Within the fenced area of the IWCS, southeast of the IWCS, EU 10.	SS-TWP833-3509	10/02/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS.
TWP834 - Within the fenced area of the IWCS and adjacent to the southeast corner of the IWCS, EU 10.	SS-TWP834-3512	10/02/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS.
TWP839 - Within the fenced area of the IWCS, north/northeast of the IWCS, EU 10.	SS-TWP839-3527	09/30/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former Disposal Area located north of the IWCS.
TWP844 - East of the IWCS, west of the Hittman Building, EU 10.	SS-TWP844-3542	09/19/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former South Pond.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
TWP850 - South of the IWCS, along the southern boundary of EU 10.	SS-TWP850-3560	09/21/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former Stockpile Area.
TWP851 - South/southwest of the IWCS, southwest of the intersection of Lutts Road, EU 10.	SS-TWP851-3563	09/21/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former Stockpile Area.
TWP852 - Within the fenced area of the IWCS and southwest of the IWCS, EU 10.	SS-TWP852-3566	09/30/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former Building 409 Area.
TWP853 - Within the fenced area of the IWCS, south of the IWCS, EU 10.	SS-TWP853-3569	09/30/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former Building 409 Area.
TWP854 - Within the fenced area of the IWCS, southeast of the IWCS, EU 10.	SS-TWP854-3572	09/30/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former Building 409 Area.
TWP855 - Within the fenced area of the IWCS, south of the IWCS, EU 10.	SS-TWP855-3575	09/30/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former Building 409 Area.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
TWP856 - Within the fenced area of the IWCS, west of the IWCS, EU 10.	SS-TWP856-3578	10/02/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as geophysical areas of interest discovered in previous phases of this RI.
TWP857 - East of the IWCS, outside the fenced area, EU 10.	SS-TWP857-3581	10/02/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as geophysical areas of interest discovered in previous phases of this RI.
TWP858 - Within the fenced area of the IWCS, southern perimeter of the IWCS, EU 10.	SS-TWP858-3584	10/02/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as geophysical areas of interest discovered in previous phases of this RI.
TWP859 - Within the fenced area of the IWCS, southwestern perimeter of the IWCS, EU 10.	SS-TWP859-3587	10/02/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as geophysical areas of interest discovered in previous phases of this RI.
218 - Building 401 Area, EU 11.	SS218-400	09/10/2000 Phase 2	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
2A002 - West of Building 401, along the eastern perimeter of EU 11.	SS2A002-530	09/12/2000 Phase 2	Radiological Semivolatiles	To investigate the extent of chemical and radiological compounds found in the groundwater at TWP217.
2A003 – Southwest of Building 401, along the eastern perimeter of	SS2A003-531	09/12/2000 Phase 2	Radiological Semivolatiles	To investigate the extent of chemical and radiological compounds found in the groundwater at TWP201.
2A004 - In the ditch northeast of Hittman Building, EU 11.	SS2A004-2173	09/10/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
2A005 - In the ditch northeast of Hittman Building, EU 11.	SS2A005-2240	09/08/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
2A006 - In the ditch east of Campbell Street and west of the USACE Building, EU 11.	SS2A006-2369	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
2A007 - In the ditch east of Campbell Street, northwest of the USACE Building, EU 11.	SS2A007-2370	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
2A009 - West of the gated entrance to the Building 401 area, EU 11.	SS2A009-2373	11/17/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
801 – Southwest corner of EU 11 and south of the IWCS, near the NFSS property boundary.	SS801-070	11/06/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds and potential migration south of the IWCS at the NFSS boundary.
802 – Southeast corner of the IWCS, near the former "lay down area", EU 11.	SS802-071	11/06/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon	To investigate the presence or absence of organic and/or inorganic compounds and potential migration near the IWCS associated with the former "lay down area".
803 - Along the southern portion of the Eastern boundary of EU 11.	SS803-072	11/17/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon	To investigate a previously uninvestigated area south of Building 401.
805 – Northeast of the IWCS, in the area of the former DOE dewatering Pond 5, EU 11.	SS805-074	11/07/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds and potential migration near the IWCS and the former DOE WWTP (dewatering Pond 5).
809 - Trench, located in the Former Water Storage Area, east of the IWCS, EU 11.	TS809-2904-001	05/30/2002 Phase 3	Pesticides Radiological	The location of this trench was to investigate the area of the former water storage pits located north of the Hittman Building.
809 - Trench, located in the Former Water Storage Area, east of the IWCS, EU 11.	TS809-2905-007	05/30/2002 Phase 3	Radiological	The location of this trench was to investigate the area of the former water storage pits located north of the Hittman Building.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
812 - Trench northeast of the front gate, southeast corner of EU 11.	TS812-2928-062	06/01/2002 Phase 3	Radiological	The location of this trench was to investigate a known area of gamma radiation above background.
813 – Southern perimeter of EU 11 and NFSS, south of the IWCS.	SS813-700	09/09/2000 Phase 2	Metals Radiological	To further define the extent of radiological and metal parameters identified in TWP 802 and wells BH12 and OW7A and potential migration south of the IWCS at the NFSS boundary.
814 - Uninvestigated Area, EU 11.	SS814-701	08/30/2000 Phase 2	Radiological	This sample was located south of an area of gamma radiation above background, found during the walkover survey , at the main entrance to the NFSS site at the southern property line.
819 - Uninvestigated Area, EU 11.	SS819-706	09/11/2000 Phase 2	Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Volatiles	This sample point was located southeast and downgradient of the decontamination pad to investigate if chemical and/or radiological compounds could have been deposited from decontamination activities.
826 - Uninvestigated Area, EU 11.	SS826-405	09/14/2000 Phase 2	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
827 - Uninvestigated Area, EU 11.	SS827-406	09/13/2000 Phase 2	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
830 – Northeast corner of EU 11, near the south-central NFSS property line, east of Campbell St.	SS830-1036	09/10/2000 Phase 2	Radiological	To further investigate the gamma reading of 215,000 cpm found during the walkover survey.
8A002 - Northeast of Hittman Building, EU 11.	SS8A002-2174	09/08/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8A003 - Northeast of Hittman Building, EU 11.	SS8A003-2175	09/08/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8A004 - Northeast of Hittman Building, EU 11.	SS8A004-2176	09/08/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8A005 - West of Campbell St., midway between Hittman Building and south gate, EU 11.	SS8A005-2177	09/08/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8A006 - South of IWCS, EU 11.	SS8A006-2178	09/08/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8A007 - Southwest corner of NFSS and EU 11.	SS8A007-2179	09/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8A008 - South of IWCS, EU 11.	SS8A008-2180	09/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8A009 - South of IWCS, EU 11.	SS8A009-2218	09/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8A010 - South of IWCS, EU 11.	SS8A010-2182	09/08/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
8A011 - West of Campbell Street and MH03; east of the IWCS, EU 11.	SS8A011-2219	09/10/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8A014 - IWCS	SS8A014-2181	09/07/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8B008 - Uninvestigated Area, near south gate, EU 11.	SS8B008-2438	11/18/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8B009 - Uninvestigated Area, near south gate, EU 11.	SS8B009-2441	11/18/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8B010 - Uninvestigated Area, near south gate, EU 11.	SS8B010-2442	11/18/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8H001 - Uninvestigated Area, near south gate, EU 11.	SS8H001-2443	11/18/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8H002 - Uninvestigated Area, near south gate, EU 11.	SS8H002-2444	11/18/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
EU111 - Northern section of EU 11, east of the IWCS, south of TWP842.	SS-EU111-3346	07/12/2003 Phase 3	PAH Semivolatiles Volatiles Metals Radiological	To investigate the location of the former clean water ponds.
EU112 - East of the southeast corner of the IWCS, EU 11.	SS-EU112-3347	07/12/2003 Phase 3	PAH Semivolatiles Volatiles Metals	To investigate the areal distribution of chemical compounds near the IWCS.
EU113 - South of the southeast corner of the road that encircles the IWCS, EU 11.	SS-EU113-3348	07/12/2003 Phase 3	Metals Radiological	This sample was located north of sample location 813, near MH07.
TWP841 - Northeast corner of EU 11, east of the northeast corner of the road that encircles the IWCS.	SS-TWP841-3533	09/18/2003 Phase 3	PAH Semivolatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as Former Pond 5.
TWP842 - Western perimeter of EU 11, north of the South 16 Ditch, west of Campbell Street	SS-TWP842-3536	09/19/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as Total U and Th-230 concentrations discovered in previous phases of this RI.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
TWP843 - Western boundary of EU 11, east of the IWCS, northwest of the Hittman Building.	SS-TWP843-3539	10/04/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former North Pond.
TWP845 - Western perimeter of EU 11, south of South 16 Ditch, west of Campbell Street.	SS-TWP845-3545	09/19/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former West Pond.
TWP846 - Adjacent to the southeast corner of the IWCS, EU 11.	SS-TWP846-3548	09/19/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former Laydown Area.
TWP847 - Adjacent to the southeast corner of the IWCS, EU 11.	SS-TWP847-3551	09/19/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former Laydown Area.
TWP848 - At the south end of the Central Ditch, north of R Street, EU 11.	SS-TWP848-3554	09/21/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as Total U, Th-230, and U-234 sampling readings discovered in previous phases of this RI.
TWP849 - Southwest portion of EU 11, outside the IWCS fenced area, south of the IWCS.	SS-TWP849-3557	09/21/2003 Phase 3	PAH Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the integrity of the clay dike of the IWCS as well as the Former Stockpile Area.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
204 - Southwest corner of EU 12, east-southeast of Building 401, outside the fenced area and near Building B-2	SS204-004	11/19/1999 Phase 1	CEC Metals Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with Building 401.
205 - Southeast corner of EU 12, along the eastern boundary of the NFSS, east-southeast of Building 401.	SS205-008	11/17/1999 Phase 1	Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of organic and/or radioactive compounds along the eastern NFSS boundary.
206 – East central perimeter of EU 12 and the NFSS, east of Building 401	SS206-009	11/17/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds along the eastern NFSS boundary.
215 - Northwest of Building 401 and 40 ft. east of Campbell St., EU 12	SS215-019	12/01/1999 Phase 1	CEC Metals Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with a concrete vault of unknown origin. This location is near Building 401.
219 - Building 401 Area, EU 12.	SS219-401	09/15/2000 Phase 2	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
2A008 - Building 401 Area, EU 12.	SS2A008-2371	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
2B001 - Building 401 Area, EU 12.	SS2B001-532	08/26/2000 Phase 2	Metals Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
2B002 - Building 401 Area, EU 12.	SS2B002-534	08/26/2000 Phase 2	Metals Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
2C002 - Building 401 Area, EU 12.	SS2C002-2380	11/17/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
2D001 - Building 401 Area, EU 12.	SS2D001-547	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation. This sample was located in the SE corner of EU 12, along the Eastern boundary of the site.
2D002 - Building 401 Area, EU 12.	SS2D002-548	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation. This sample was located in the SE corner of EU 12, along the Eastern boundary of the site.
2D003 - Building 401 Area, EU 12.	SS2D003-549	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation. This sample was located in the SE corner of EU 12, along the Eastern boundary of the site.
2D004 - Building 401 Area, EU 12.	SS2D004-550	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation. This sample was located in the SE corner of EU 12, along the Eastern boundary of the site.
2D005 - Building 401 Area, EU 12.	SS2D005-551	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation. This sample was located in the SE corner of EU 12, along the Eastern boundary of the site.
2D009 - Building 401 Area, EU 12.	SS2D009-2381	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
2D011 - Building 401 Area, EU 12.	SS2D011-2383	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
2D012 - Building 401 Area, EU 12.	SS2D012-2384	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
2D013 - Building 401 Area, EU 12.	SS2D013-2385	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3B015 - Former Shop Area, EU 12.	SS3B015-2405	11/15/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
3B017 - Former Shop Area, EU 12.	SS3B017-2407	11/15/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
EU121 - Central portion of EU 12, northeast of Building 401, and west of Castle Garden Road.	SS-EU121-3349	07/12/2003 Phase 3	PAH Semivolatiles Metals PCBs Pesticides Radiological	To investigate the presence or absence of chemical and radiological compounds in a previously uninvestigated area.
EU122 - Northeast corner of EU 12, south of T305, and west of Castle Garden Road.	SS-EU122-3350	07/12/2003 Phase 3	PAH Semivolatiles Metals PCBs Pesticides Radiological	To investigate the presence or absence of chemical and radiological compounds in a previously uninvestigated area.
EU123 - Northwest corner of EU 12, north of Building 401 and northeast of Trench 203.	SS-EU123-3351	07/12/2003 Phase 3	Metals Radiological	To investigate the presence or absence of chemical and radiological compounds in a previously uninvestigated area.
201 - Southwest corner of EU 13, south of Building 401 and north of a former sludge bed associated with Building 401.	SS201-001	11/18/1999 Phase 1	Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the extent of previously identified TCE concentrations in this area and to investigate the presence or absence of organic and/or radioactive compounds associated with the former sludge bed south of Building 401.
203 - Southern perimeter of EU 13, south of Building 401 and north of the former sludge bed.	SS203-003	11/19/1999 Phase 1	Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the extent of previously identified TCE concentrations in this area and to investigate the presence or absence of organic and/or radioactive compounds associated with the former sludge bed south of Building 401.
203 - Trench, located north of Building 401, EU 13.	TS203-2808-020	05/18/2002 Phase 3	Metals Radiological Semivolatiles Volatiles	To investigate a potential underground storage tank located north of Building 401. Concentrations of VOCs and metals were found in the groundwater samples from this area. The location of the trench examined a ferrous zone anomaly FZ541 that was reported in the geophysical investigation of the area.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
207 - East of Buildings 401 and 407, EU 13.	SS207-010	11/21/1999 Phase 1	Metals Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate an area where a fuel oil storage tank was potentially located.
208 - East of Buildings 401, 405, 406 and 407, EU 13.	SS208-011	11/21/1999 Phase 1	CEC Nitroaromatics Metals Pesticides, PCBs Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with a former fuel oil UST, paint shop and emergency generator that were present near this location.
209 - Northeast of Building 401 and adjacent to Building 407, EU 13.	SS209-012	11/21/1999 Phase 1	CEC Nitroaromatics Metals Pesticides, PCBs Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with the building foundation for Building 407 (paint shop).
210 - Northeast of Building 401, north of Building 407 and east of building B-3, EU 13.	SS210-014	11/21/1999 Phase 1	Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of organic and/or radioactive compounds associated with the building foundation for Building 407 (paint shop).
211 – Adjacent to former power transformer station and north of Buildings 401 and 407, EU 13.	SS211-015	11/21/1999 Phase 1	CEC Pesticides, PCBs Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of chemical and/or radioactive compounds associated with two large USTs located west of the building foundation for Building 407 (paint shop).
212 - North of Building 401 and the former power transformer station, EU13.	SS212-016	11/18/1999 Phase 1	Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence and extent of previously identified TCE compounds and to investigate the presence or absence of organic and/or radioactive compounds associated with a small concrete pad with potential fill pipes near Building 401.
213 - North of Building 401 and the former power transformer station, EU 13.	SS213-017	11/18/1999 Phase 1	CEC Nitroaromatics Metals Pesticides, PCBs Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence and extent of previously identified TCE compounds and to investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with a small concrete pad with potential fill pipes near Building 401.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
214 - Southeast quadrant of EU 13, north of Building 401 and the former power transformer station.	SS214-018	11/18/1999 Phase 1	Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence and extent of previously identified TCE compounds and to investigate the presence or absence of organic and/or radioactive compounds associated with a small concrete pad with potential fill pipes near Building 401.
216 -Adjacent to the northwest corner of Building 401, EU 13.	SS216-020	11/18/1999 Phase 1	Pesticides, PCBs Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of organic and/or radioactive compounds in an area near Building 401 where a small UST (shown on facility drawings) was potentially located.
217 - Along the southwest corner of Building 401, EU 13.	SS217-021	11/19/1999 Phase 1	CEC Nitroaromatics Metals Pesticides, PCBs Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds associated with an area of stressed vegetation, where a vent for a potential UST would have been located, near Building 401.
220 - Building 401 Area, EU 13.	SS220-402	09/13/2000 Phase 2	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
221 - Building 401 Area, EU 13.	SS221-403	09/10/2000 Phase 2	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
EU131 - East central portion of EU 13, east of Building 401, east of the paved area.	SS-EU131-3352	07/12/2003 Phase 3	PAH Semivolatiles Metals	To investigate the presence or absence of chemical and radiological compounds in a previously uninvestigated area.
EU132 - Southeast of Building 401, EU 13.	SS-EU132-3353	07/12/2003 Phase 3	Metals	To investigate the horzontal extent of inorganic compounds found at sample locations 203 and 202.
EU133 - Southeast of Building 401, EU 13.	SS-EU133-3354	07/12/2003 Phase 3	Metals	To investigate the presence or absence of chemical and radiological compounds in a previously uninvestigated area.
MW229 - South of Building 401, along the southern boundary of EU 13.	SS-MW229-3617	09/18/2003 Phase 3	PAH Nitroaromatics Semivolatiles Volatiles Metals PCBs Pesticides Radiological	To investigate the surface soil located south of Buiding 401.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
202 - South of Building 401 Area, EU 14.	SS202-002	11/22/1999 Phase 1	CEC Nitroaromatics Metals Pesticides, PCBs Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate if residual radioactive, organic and/or inorganic compounds were present at this location south of an area where TCE compounds were previously detected.
2B003 - South of Building 401 Area, EU 14.	SS2B003-535	08/26/2000 Phase 2	Metals Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
2B004 - South of Building 401 Area, EU 14.	SS2B004-536	08/26/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
2B005 - South of Building 401 Area, EU 14.	SS2B005-537	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
2B006 – North-west corner of EU 14, south of Building 401 and	SS2B006-539	08/26/2000 Phase 2	Radiological Semivolatiles	To investigate the extent of chemical and radiological compounds found in the groundwater at TWP201, near Building 401.
2B007 - South of Building 401 Area, EU 14.	SS2B007-540	08/26/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
2B008 - South of Building 401 Area, EU 14.	SS2B008-541	08/26/2000 Phase 2	Radiological Semivolatiles	To bound the extent of findings from the first phase of the site investigation.
2B009 - South of Building 401 Area, EU 14.	SS2B009-542	08/26/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
2B010 - South of Building 401 Area, EU 14.	SS2B010-543	08/26/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
2B011 - South of Building 401 Area, EU 14.	SS2B011-544	08/26/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
2B012 - South of Building 401 Area, EU 14.	SS2B012-545	08/26/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
2B013 - South of Building 401 Area, EU 14.	SS2B013-546	08/26/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
2B014 - South of Building 401 Area, EU 14.	SS2B014-2374	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
2B015 - South of Building 401 Area, EU 14.	SS2B015-2376	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
2B016 - South of Building 401 Area, EU 14.	SS2B016-2377	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
2B017 - South of Building 401 Area, EU 14.	SS2B017-2378	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
2B018 - South of Building 401 Area, EU 14.	SS2B018-2379	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
2D006 - South of Building 401 Area, EU 14.	SS2D006-552	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
2D007 - South of Building 401 Area, EU 14.	SS2D007-553	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
2D008 - South of Building 401 Area, EU 14.	SS2D008-554	08/27/2000 Phase 2	Radiological	To bound the extent of findings from the first phase of the site investigation.
2D010 - South of Building 401 Area, EU 14.	SS2D010-2382	11/19/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
804 - Southeast quadrant of EU 14, between Campbell St. and Castle Garden Rd.	SS804-073	12/02/1999 Phase 1	CEC Nitroaromatics Metals PCBs Pesticides Radiological Semivolatiles Total Organic Carbon Volatiles	To investigate the presence or absence of radioactive, organic and/or inorganic compounds and potential migration near the southeastern NFSS boundary in an area that had not previously been investigated.
815 - Southern perimeter of EU 14 and NFSS, west of BH48.	SS815-702	09/10/2000 Phase 2	Radiological	To further delineate the extent of the radiological parameters found in TWP201 and TWP203, to investigate the presence or absence of organic and/or inorganic compounds at the NFSS boundary.
816 - Uninvestigated Area, southeast corner of EU 14 and NFSS.	SS816-703	08/25/2000 Phase 2	Metals Radiological Semivolatiles	To investigate the presence or absence of organic and/or inorganic compounds at the southeastern property corner of the NFSS northeast of the Modern Landfill leachate collection system and storage tanks. No radiological data had been collected during this RI in this area.
817 - Eastern perimeter of EU 14 and NFSS, south of TWP205	SS817-704	09/09/2000 Phase 2	Radiological	To further delineate the extent of the radiological parameters found in TWP205, to investigate the presence or absence of organic and/or inorganic compounds at the NFSS boundary.
818 - Southeast of Building 401, EU 14.	SS818-705	09/12/2000 Phase 2	Radiological	To further delineate the extent of uranium isotopes found in TWP203 and to provide sufficient and representative data for characterization of this EU.
8B001 - Uninvestigated Area, southeast corner of EU 14 and NFSS.	SS8B001-2430	11/19/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8B002 - Uninvestigated Area, southeast corner of EU 14 and NFSS.	SS8B002-2431	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8B003 - Uninvestigated Area, southeast corner of EU 14 and NFSS.	SS8B003-2433	11/17/2001 Phase 3	Radiological	To further investigate the gamma radiation above background found during the walkover survey.
8B004 - Uninvestigated Area, south of Building 401, EU 14.	SS8B004-2434	11/18/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
8B005 - Uninvestigated Area, south of Building 401, EU 14.	SS8B005-2435	11/18/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
8B006 - Uninvestigated Area, southeast of Building 401, EU 14.	SS8B006-2436	11/18/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.

Table 3-4
Summary of Surface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site

Sample Location	Sample ID	Collection date	Parameter*	Rationale for Sample Location and Analysis
8B007 - Uninvestigated Area, southeast of Building 401, EU 14.	SS8B007-2437	11/18/2001 Phase 3	Radiological	Stratified random sampling location to verify the readings of the Gamma Walkover Survey.
EU141 - Southeast central portion of EU 14, just northeast of 8B005, EU 14.	SS-EU141-3355	07/12/2003 Phase 3	Metals Radiological	To investigate the areal extent of chemical and radiological compounds north of the former drum staging area
EU142 - Southeast corner of EU 14, just northeast of the intersection	SS-EU142-3356	07/12/2003 Phase 3	Metals	This sample was located north of sample location 816.
EU143 - South central portion of EU 14, just north of the break in R	SS-EU143-3357	07/12/2003 Phase 3	Metals	To investigate the areal extent of chemical compounds at the former drum staging area

Table 3-5
Summary of Background Surface Soil Samples and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Alias ID	Date Collected	Rationale for Sample Location and Analysis*
B001 - Located on private property north of Pletcher Rd at 435 Guard St, approximately 1,400 feet west of the NFSS.	SSB001-807	BKGD-SO-3-0.5	10/05/00	Prior to construction of the LOOW, this location was unoccupied forested land. During operation of the LOOW, this area was part of the LOOW buffer zone. Currently, the land is not actively used and is private property.
B002- Located on a private roadway just north of Pletcher Road (435 Guard St), approximately 1,800 feet southwest of the southwest corner of the NFSS.	SSB002-808	BKGD-SO-4-0.5	10/05/00	Prior to construction of the LOOW, this sampling location was an orchard. During operation of the LOOW, this area was part of the LOOW buffer zone. Currently, the land is not actively used and is private property.
B003 – Located in an open area adjacent to the Lewiston-Porter school complex at 4061 Creek Rd, approximately 5,500 feet west of the NFSS.	SSB003-810	BKGD-SO-5-0.5	10/05/00	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, this area was part of the LOOW buffer zone. This sampling location is now open land that belongs to the Lewiston-Porter School System. The school complex is located in a residential area.
B004 – Located on residential property at 4403 Creek Rd, approximately 8,700 feet southwest of the southwest corner of the NFSS.	SSB004-811	BKGD-SO-6-0.5	10/05/00	Prior to construction of the LOOW, this sampling location was open unused land or part of a highway. During operation of the LOOW, this area was part of the LOOW buffer zone. Currently the property is part of a residential area.
B005 – Located in the north-central portion of the National Guard training area, 1551 Balmer Rd, approximately 7,400 feet northeast of the northeast corner of the NFSS.	SSB005-812	BKGD-SO-7-0.5	11/09/00	Prior to construction of the LOOW, this sampling location was farmland and orchard. During operation of the LOOW, this area was part of the LOOW TNT magazine storage area. The area is currently part of the National Guard training area.
B006 – Located in the east-central quadrant of the National Guard training area, 1551 Balmer Rd, approximately 6,000 feet northeast of the northeast corner of the NFSS.	SSB006-813	BKGD-SO-8-0.5	11/09/00	Prior to construction of the LOOW, this sampling location was farmland and orchard. During operation of the LOOW, this area was part of the LOOW TNT magazine storage area. The area is currently part of the National Guard training area.
B007 - Located on CWM property at 1550 Balmer Rd in the eastern portion of the facility near Porter Center Rd, approximately 4,100 feet east-northeast of the northeast corner of the NFSS.	SSB007-814	BKGD-SO-9-0.5	11/09/00	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, this area was part of the LOOW buffer zone. This location is currently a part of the CWM.
B008 – Located on the western end of a farm at 4452 Porter Center Rd, approximately 10,400 feet northeast of the northeast corner of the NFSS.	SSB008-816	BKGD-SO-10-0.5	11/09/00	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, the area was part of the LOOW buffer zone. Current land use is once again agricultural (farm).
B009 – On Modern property 47, near the intersection of the southeastern boundary of CWM and the northeastern boundary of Modern, approximately 5,800 feet east-southeast of the northeast corner of the NFSS.	SSB009-817	BKGD-SO-11-0.5	11/09/00	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, this area was part of the LOOW buffer zone. The property is currently a part of Modern landfill.

Table 3-5
Summary of Background Surface Soil Samples and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Alias ID	Date Collected	Rationale for Sample Location and Analysis*
B010 – Located on property belonging to the 3F Gun Club at 1166 Swann Rd, approximately 7,900 feet south-southwest of the NFSS.	SSB010-818	BKGD-SO-12-0.5	11/10/00	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, this area was part of the LOOW buffer zone. The property is now a gun club. The surrounding area is residential.
B011 – Located south of the 3F gun club in a grassy area near a pond, approximately 9,500 feet south-southwest of the NFSS.	SSB011-819	BKGD-SO-13-0.5	11/10/00	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, the area was part of the LOOW buffer zone. Current land use is once again agricultural (farm).
B012 – Located on forested property at 1074 Cain Rd., approximately 9,100 feet northwest of the northwest corner of the NFSS.	SSB012-820	BKGD-SO-14-0.5	11/10/00	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, this area was part of the LOOW buffer zone. Currently, the property is a privately owned forested area.
B013 – Collected from the front lawn of a private residence located at 338 Howard Drive, approximately 16,000 feet west-northwest of the NFSS.	SSB013-821	BKGD-SO-15-0.5	11/10/00	This area has always been a residential area.
B014 – Collected behind the softball field of the Lewiston-Porter school complex located at 4061 Creek Rd, approximately 6,100 feet west of the NFSS.	SSB014-822	BKGD-SO-16-0.5	11/11/00	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, this area was a part of the LOOW buffer zone. The land is now part of the Lewiston-Porter school complex and is surrounded by a residential area.
B015 – Located in the northern portion of the Lewiston-Porter school complex located at 4061 Creek Rd, approximately 7,000 feet west of the NFSS.	SSB015-823	BKGD-SO-17-0.5	11/11/00	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, this area was a part of the LOOW buffer zone. The land is now part of the Lewiston-Porter school complex and is surrounded by a residential area.
SSBK1 – Located north of Pletcher Road and slightly east of SW18 Creek Road. About one mile west of NFSS.	SSBK1	BKGD-1-0-0.5	7/13/98	Collected during Phase I LOOW RI to obtain data representing the general area of the LOOW that was not impacted by site-specific operations.

Radiological Parameters included: gross alpha, gross beta, total uranium and the following isotopes: actinium-227, americium-241, cesium-137, cobalt-60, potassium-40, protactinium-231, radium-226, radium-228, thorium-228, thorium-230, thorium-232, uranium-233/234, uranium-235/236 uranium-238, and total uranium.
* These samples were collected to characterize background conditions. Sample locations were selected because they are outside the zone of impacted soil associated with activities at the NFSS and LOOW. For each sample, analytical parameters included: radiological parameters, SVOCs, PAHs, metals and total organic carbon. Parameters were selected to detect a wide range of compounds.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB501 – Southwest corner of Baker Smith Area, northwest of Building 444. EU 1	SB501-144-12	11/07/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, TOC, Explosives, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil near the former welding shop (Building 443) and storehouse (Building 444) where radioactive residue was stored and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this area.
SB502 – Central portion of Baker Smith Area, near Building 445. EU 1	SB502-145-13	11/17/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, TOC, Explosives, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil near the former pipe shop (Building 445) where drums of L-30 and KAPL wastes were stored and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this area.
SB503 - Central portion of Baker Smith Area, adjacent to Building 445. EU 1	SB503-149-13	11/07/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, TOC, Explosives, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil near the former pipe shop (Building 445) where drums of L-30 and KAPL wastes were stored and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this area.
SB504 - Southeast Baker Smith Area, southeast of Building 443. EU 1	SB504-722-14.0	09/09/2000 Phase 2	SVOC, Metals, RAD	Further delineate the extent of the gamma measurements, chemical and radiological parameters found in SB503.
SB505 - Northwest corner of NFSS. EU 1	SB505-723-17.0	08/26/2000 Phase 2	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	Further delineate the extent of chemical and radiological compounds found in SB502 and SB 503.
SB506 - Northeast Corner of Baker Smith Area. EU 1	SB506-725-13.0	09/09/2000 Phase 2	RAD	Further delineate the extent of the radiological parameters found in SB503, to investigate the presence of radiological parameters in the soil at the NFSS boundary .
SB5A010 - West central portion of EU1	SB5A010-2209 2.0	09/10/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB5A010 - West central portion of EU 1	SB5A010-2257 1.0	09/10/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB5A010 - West central portion of EU 1	SB5A010-5.0-3641	09/18/2003 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB5A013 - South central portion of EU 1	SB5A013-2210 2.0	09/10/2001 Phase 2	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB5A013 - South central portion of EU 1	SB5A013-5.0-3640	09/18/2003 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB5A016 - East central portion of EU 1	SB5A016-2254 1.0	09/09/2001 Phase 2	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB5A016 - East central portion of EU 1	SB5A016-2255 1.5	09/09/2001 Phase 2	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB5A016 - East central portion of EU 1	SB5A016-2256 1.7	09/09/2001 Phase 2	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB5A016 - East central portion of EU 1	SB5A016-5.0-3642	09/22/2003 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB5A018 - West central portion of EU 1	SB5A018-2211 2.0	09/09/2001 Phase 2	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB5A018 - West central portion of EU 1	SB5A018-5.0-3643	09/18/2003 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB5A019 - North central portion of EU 1	SB5A019-2212 1.75	09/09/2001 Phase 2	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB5A020 - West central portion of EU 1	SB5A020-2233 2.0	09/09/2001 Phase 2	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB5A020 - West central portion of EU 1	SB5A020-5.0-3644	09/22/2003 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB-EU011 - Southeast portion of EU 1, adjacent to West Ditch	SB-EU011-3300-2.0	07/08/2003 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, PAH	This boring was located near sediment sample SD-749 to investigate the presence and extent of organic, inorganic or radiological compounds previously identified in the LOOW RI in the soil near this area.
SB-EU012 - Central portion of EU 1	SB-EU012-3301-1.0	07/08/2003 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, PAH	This boring was located in a previously univestigated area to investigate the presence and extent of organic, inorganic or radiological compounds previously identified in the LOOW RI in the soil near this area.
SB-EU013 - Northeast portion of the EU 1	SB-EU013-3302-1.0	07/08/2003 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, PAH	This boring was located in a previously univestigated area to investigate the presence and extent of organic, inorganic or radiological compounds previously identified in the LOOW RI in the soil near this area.
SB-EU014 - North central portion of EU 1	SB-EU014-3303-1.0	07/08/2003 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, PAH	This boring was located in a previously univestigated area to investigate the presence and extent of organic, inorganic or radiological compounds previously identified in the LOOW RI in the soil near this area.
SB-EU015 - North central portion of EU1	SB-EU015-3304-1.0	07/08/2003 Phase 3	VOC	Investigate organic concentrations found during the LOOW RI.
TB501 - Central portion of EU 1, in the vicinity of building foundations	TB501-2847-01.5-130	05/21/2002 Phase 3	SVOC, Metals, RAD	Gamma measurements above background in the surface and subsurface samples were noted during the soil sample collection after the gamma walkover. The location of the trench examined conductive zone anomolies CZ208 and CZ217, magnetic anomaly MZ207 , and ferrous zone anomaly FZ220 that were reported in the geophysical investigation of the area.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
TB501 - Central portion of EU 1, in the vicinity of building foundations	TB501-2848-03.0-095	05/22/2002 Phase 3	SVOC, Metals, RAD	Gamma measurements above background in the surface and subsurface samples were noted during the soil sample collection after the gamma walkover. The location of the trench examined conductive zone anomolies CZ208 and CZ217, magnetic anomaly MZ207, and ferrous zone anomaly FZ220 that were reported in the geophysical investigation of the area.
TB501 - Central portion of EU 1, in the vicinity of building foundations	TB501-2849-02.7-068	05/22/2002 Phase 3	SVOC, Metals, RAD	Gamma measurements above background in the surface and subsurface samples were noted during the soil sample collection after the gamma walkover. The location of the trench examined conductive zone anomolies CZ208 and CZ217, magnetic anomaly MZ207, and ferrous zone anomaly FZ220 that were reported in the geophysical investigation of the area.
SB401 – West of former Building 433 and the Acid Area. EU 2	SB401-118-20	11/16/1999 Phase 1	VOC, SVOC, Metals, RAD, TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with the two pipes found in the ground during the gamma walkover survey, to provide sufficient and representative data to characterize this EU and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil east of this location.
SB402 - East edge of EU 2, south of former Building 433	SB402-119-23	11/08/1999 Phase 1	VOC SVOC Metals RAD TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with two nearby concrete slabs and Building 433 and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.
SB403 - East edge of EU 2, near former Building 433	SB403-120-18	11/08/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, TOC, Explosives, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with a former fuel oil storage area and Building 433 and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.
SB404 - Eastern perimeter of EU 2, near former Building 433	SB404-121-1.4	11/07/1999 Phase 1	RAD	Investigate the presence or absence of radioactive compounds in the soil associated with a former fuel oil storage area and radium vault.
SB404 - Eastern perimeter of EU 2, near former Building 433	SB404-121-25	11/07/1999 Phase 1	VOC SVOC Metals RAD TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with a former fuel oil storage area and radium vault and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.
SB404 - Eastern perimeter of EU 2, near former Building 433	SB404-121-4	11/07/1999 Phase 1	VOC, SVOC, Metals, PEST, PCB, TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with a former fuel oil storage area and radium vault and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB405 - East of Campbell Street, near former Building 433. EU 2	SB405-122-25	11/08/1999 Phase 1	VOC, SVOC, Metals, RAD, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with a former fuel oil storage area and radium vault and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.
SB406 – Northeast corner of EU 2, north of former Building 433.	SB406-123-18	11/16/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with former railroad lines, to provide a representative number of sampling points in this EU and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil southeast of this location.
SB4A013 – Southwest of former Building 433 and the Acid Area. EU 2	SB4A013-2356	10/05/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB4A013 – Southwest of former Building 433 and Acid Area. EU 2	SB4A013-2357	10/05/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB4A013 – Southwest of former Building 433 and Acid Area. EU 2	SB4A013-2358	10/05/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB4A014 - Eastern perimeter of EU 2, south of former Building 433.	SB4A014-2272 1.0	10/05/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB4A015 - Eastern edge of EU 2, south of former Building 433	SB4A015-2355	10/05/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB808 – East of the Baker Smith Area. EU 2	SB808-161-15	11/08/1999 Phase 1	SVOC Metals RAD TOC	Investigate the presence or absence of chemical and radiological compounds in the soil in an area that has not previously been investigated and to provide sufficient and representative data to characterize the EU.
SB809 – East of Baker Smith Area, northern perimeter of NFSS. EU 2	SB809-162-18	11/16/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives, TOC, CEC+D95	Investigate the presence or absence of chemical and radiological compounds in the soil at the property boundary in an area that has not previously been investigated.
SB810 – South side of N St., near Campbell Street. EU 2	SB810-163-12	11/30/1999 Phase 1	VOC, Metals, RAD, Explosives, TOC	Investigate the presence or absence of chemical and radiological compounds in the soil in an area that has not previously been investigated.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB822 – North of O St. between SB401 and SB808. EU 2	SB822-739-11.0	09/08/2000 Phase 2	SVOC Metals RAD	Further delineate the extent of chemical and radiological compounds found in SB808 and SB401.
SB823 – Northern perimeter of EU 2 and NFSS	SB823-740-13.0	09/11/2000 Phase 2	RAD	Further delineate the radium-226 found in SB406 and SB810.
SB8F001 – East of Baker Smith Area, northern perimeter of EU 2	SB8F001-2242-1.0	09/09/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8F001 – East of the Baker Smith Area, northern perimeter of EU 2 and the NFSS.	SB8F001-2243-1.5	09/09/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8F005 - Northern perimeter of the NFSS, adjacent to Central Ditch. EU 2	SB8F005-2245-1.0	09/08/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8F005 - Northern perimeter of the NFSS, adjacent to Central Ditch. EU 2	SB8F005-2246-1.5	09/08/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8F006 - Northern perimeter of the NFSS. EU 2	SB8F006-2247-1.5	09/08/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8F006 - Northern perimeter of the NFSS. EU 2	SB8F006-2251-1.0	09/08/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB-DRUM01 - Southeast corner of EU 2.	SB-DRUM01-3370-1.0	07/09/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Chemically and radiologically characterize the soil beneath abandoned drum.
SB-EU021 - Adjacent to boring 8F001. EU 2	SB-EU021-3305-1.0	07/09/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Further delineate the extent of organic, inorganic and radiological compounds found in boring 8F001.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB-EU022 - Adjacent to boring 8F005. EU 2	SB-EU022-3306-2.0	07/09/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Further delineate the extent of organic, inorganic and radiological compounds found in boring 8F005.
SB-EU023 - Central portion of EU 2	SB-EU023-3307-2.0	07/09/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence and extent of chemical compounds previously identified in the LOOW RI in the soil near this area. This area was not part of any previous radiological investigation at the site.
SB-OTFL11 - Central ditch. EU 2	SB-OTFL11-13.0-3658	10/01/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH, Explosives	Investigate the presence and extent of chemical compounds previously identified in the LOOW RI in the soil near this area. This area was not part of any previous radiological investigation at the site.
SB-OTFL12 - Central Ditch. EU 2	SB-OTFL12-13.5-3659	10/01/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH, Explosives	Investigate the presence and extent of chemical compounds previously identified in the LOOW RI in the soil near this area. This area was not part of any previous radiological investigation at the site.
SB407 – Northeast of former Building 433. EU 3	SB407-124-20	11/08/1999 Phase 1	SVOC, Metals, RAD, Explosives, TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with a hummocky area near former railroad lines, to investigate the presence and extent of organic, inorganic or radiological compounds previously identified in the LOOW RI in the soil southeast of this location.
SB408 - Southeast perimeter of EU 3, near former Building 433	SB408-125-20	11/17/1999 Phase 1	SVOC Metals RAD TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with a former fuel oil storage area and Building 433 and to investigate the presence and extent of organic, inorganic or radiological compounds previously identified in the LOOW RI in the soil near this location.
SB4B009 - South of former Building 433. EU 3	SB4B009-2281 2.0	10/04/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB4B0011 - South of former Building 433. EU 3	SB4B011-2283 2.0	10/05/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB4B0013 - South of former Building 433. EU 3	SB4B013-2287 2.0	10/04/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB4B0014 - South of former Building 433. EU 3	SB4B014-2353	10/04/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB4B0014 - South of former Building 433. EU 3	SB4B014-2354	10/04/2001 Phase 3	RAD	Investigate the presence and extent of chemical compounds previously identified in the LOOW RI in the soil near this area. This area was not part of any previous radiological investigation at the site.
SB4B0017 - South of former Building 433. EU 3	SB4B017-2350	10/04/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB4B0018 - South of former Building 433. EU 3	SB4B018-2292 2.0	10/04/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB4B0021 - South of former Building 433. EU 3	SB4B021-2296 2.0	10/04/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB-EU031 - Central portion of EU 3, northeast of SB4B009	SB-EU031-3308-2.0	07/09/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Further delineate the extent of organic and/or inorganic and radiological compounds found in boring SB4B009.
SB-EU032 - South central portion of EU 3, southeast of SB4B009	SB-EU032-3309-1.0	07/09/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Further delineate the extent of chemcial and radiological compounds found in boring SB4B009.
TB403 - Former Acid Area between “O” Street and “N” Street. EU 3	TB403-2821-04.0-008	05/30/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	Due to the uneven terrain, no gamma walkover survey was completed in this area. The location of the trench examined a ferrous zone anomaly FZ310 and metallic zone anomaly MZ 317 that were reported in the geophysical investigation of the area.
TB403 - Former Acid Area between “O” Street and “N” Street. EU 3	TB403-2822-07.0-024	05/30/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	Due to the uneven terrain, no gamma walkover survey was completed in this area. The location of the trench examined a ferrous zone anomaly FZ310 and metallic zone anomaly MZ 317 that were reported in the geophysical investigation of the area.
TB403 - Former Acid Area between “O” Street and “N” Street. EU 3	TB403-2823-08.0-045	05/30/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	Due to the uneven terrain, no gamma walkover survey was completed in this area. The location of the trench examined a ferrous zone anomaly FZ310 and metallic zone anomaly MZ 317 that were reported in the geophysical investigation of the area.
TB411 - Western end of the Acid Area. EU 3	TB411-2835-05.0-028	05/19/2002 Phase 3	RAD	The location of the trench examined ferrous zone anomaly FZ310 and conductive zone anomaly CZ316 that were reported in the geophysical investigation of the area.
TB411 - Western end of the Acid Area. EU 3	TB411-2836-01.5-034	05/19/2002 Phase 3	RAD	The location of the trench examined ferrous zone anomaly FZ310 and conductive zone anomaly CZ316 that were reported in the geophysical investigation of the area.

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Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
TB411 - Western end of the Acid Area. EU 3	TB411-2837-01.5-052	05/19/2002 Phase 3	RAD	The location of the trench examined ferrous zone anomaly FZ310 and conductive zone anomaly CZ316 that were reported in the geophysical investigation of the area.
TB412 - Western end of the Acid Area. EU 3	TB412-2838-05.0-050	05/18/2002 Phase 3	RAD	The location of the trench examined ferrous zone anomaly FZ310 and metallic anomaly MZ317 that were reported in the geophysical investigation of the area.
TB412 - Western end of the Acid Area. EU 3	TB412-2839-05.0-034	05/18/2002 Phase 3	RAD	The location of the trench examined ferrous zone anomaly FZ310 and metallic anomaly MZ317 that were reported in the geophysical investigation of the area.
TB412 - Western end of the Acid Area. EU 3	TB412-2840-04.0-025	05/18/2002 Phase 3	RAD	The location of the trench examined ferrous zone anomaly FZ310 and metallic anomaly MZ317 that were reported in the geophysical investigation of the area.
TB413 - Western end of the Acid Area. EU 3	TB413-2841-09.0-050	05/17/2002 Phase 3	RAD	The location of the trench examined a metallic zone anomaly MZ317 that was reported in the geophysical investigation of the area.
TB413 - Western end of the Acid Area. EU 3	TB413-2842-03.0-019	05/18/2002 Phase 3	RAD	The location of the trench examined a metallic zone anomaly MZ317 that was reported in the geophysical investigation of the area.
TB413 - Western end of the Acid Area. EU 3	TB413-2843-03.0-015	05/18/2002 Phase 3	RAD	The location of the trench examined a metallic zone anomaly MZ317 that was reported in the geophysical investigation of the area.
SB313 – Near intersection of O St. and Castle Garden Rd. EU 4	SB313-717-13.5	09/15/2000 Phase 2	VOC, SVOC, RAD, PEST, PCB	South of borings 4D010, 417 and 413 where organic chemicals were identified in the soil. This location is near the transfer route for the K-65 wastes.
SB409 – West of former Buildings 431 and 432. EU 4	SB409-126-7.5	11/30/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with sulfuric acid storage and Building 432 and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.
SB410 – Northwest of former Buildings 431 and 432. EU 4	SB410-128-11	11/30/1999 Phase 1	SVOC, Metals, RAD, Explosives, TOC	Investigate the presence or absence of chemical and radiological compounds in the soil in a hummocky area near former rail lines, tank cradles and Buildings 431 and 432 and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the Acid Area near this location.
SB411 – Northwest of N St. and Castle Garden Rd., EU 4	SB411-129-20	11/16/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil along the northern NFSS boundary. This location receives run-off from the CWM property and is north of the Acid Area where organic and/or inorganic compounds were previously identified (LOOW RI).

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB412 - Central Acid Area, west of former Building 431. EU 4	SB412-130-15	11/22/1999 Phase 1	SVOC, Metals, RAD, TOC	Investigate the presence or absence of chemical and radiological compounds in the soil near the former nitric acid concentrator and Buildings 431 and 432 and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.
SB413 - Central Acid Area, west of former Building 431. EU 4	SB413-131-19	11/22/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil near the former nitric acid concentrator and Buildings 431 and 432 and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.
SB414 – Southern perimeter of EU 4, south of former Buildings 431 and 432. EU 4	SB414-133-21	12/02/1999 Phase 1	SVOC, Metals, RAD, PEST, PCB, TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with sulfuric acid storage and Building 432 and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.
SB414 – Southern perimeter of EU 4, south of former Buildings 431 and 432. EU 4	SB414-5.0-3631	10/01/2003 Phase 3	RAD	Delineate the vertical extent of Cs-137 found near the surface in the original SB414.
SB415 - Central Acid Area, east of former Building 431. EU 4	SB415-136-12.5	11/30/1999 Phase 1	VOC SVOC Metals PEST PCB	Investigate the presence or absence of chemical and radiological compounds in the soil near the former nitric acid concentrator and Buildings 431 and 432 and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.
SB415 - Central Acid Area, west of former Building 431. EU 4	SB415-136-14	11/30/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil near the former nitric acid concentrator and Buildings 431 and 432 and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.
SB415 - Central Acid Area, west of former Building 431. EU 4	SB415-136-9.2	11/30/1999 Phase 1	VOC SVOC Metals PEST PCB	Investigate the presence or absence of chemical and radiological compounds in the soil near the former nitric acid concentrator and Buildings 431 and 432 and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.
SB416 - Central Acid Area, west of Former Building 431. EU 4	SB416-137-21	12/03/1999 Phase 1	SVOC Metals RAD TOC	Investigate the presence or absence of chemical and radiological compounds in the soil near the former nitric acid concentrator and Buildings 431 and 432 and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB417 – South-central Acid Area, EU 4	SB417-138-3	11/30/1999 Phase 1	Metals, Explosives	Investigate the presence or absence of chemical compounds in the soil near a concrete slab and potential UST and to investigate the presence and extent of compounds previously identified in the LOOW RI in the soil near this location.
SB417 – South-central Acid Area, EU 4	SB417-138-8.9	11/30/1999 Phase 1	Metals, RAD, PEST, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil near a concrete slab and potential UST and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.
SB418 - East of central Acid Area, EU 4	SB418-140-19	12/01/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil near a concrete tank cradle and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.
SB419 - East of central Acid Area, EU 4	SB419-141-17	12/01/1999 Phase 1	SVOC Metals RAD TOC	Investigate the presence or absence of chemical and radiological compounds in the soil northeast of a concrete tank cradle and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this location.
SB422 – Southern perimeter of EU along O St., EU 4	SB422-718-10.5	09/10/2000 Phase 2	RAD	Investigate the potential presence or absence of radiological compounds in the soil along the southern boundary of the NFSS along the former haul road and rail line for the K-65 waste.
SB425 – Northeast corner of EU 4, northern NFSS boundary	SB425-721-10.5	09/11/2000 Phase 2	VOC, RAD, Explosives	Provide sufficient and representative data to characterize this EU and to investigate the presence of chemical and radiological compounds in the soil along the northern NFSS boundary.
SB4C002 – Southern perimeter of EU 4, south of Buildings 431 and 432	SB4C002-2351	10/05/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB4C002 – Southern perimeter of EU 4, south of former Buildings 431 and 432	SB4C002-2352	10/05/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB4D001 - Central Acid Area, west of former Building 431. EU 4	SB4D001-653-14.5	09/12/2000 Phase 2	VOC, SVOC, RAD, Explosives	Investigate the extent of chemical and radiological compounds found at SB415 and investigate the presence or absence of nitroaromatic compounds at this location.
SB4D002 - Central Acid Area, adjacent to MH22 and MH35. EU 4	SB4D002-655-12.0	09/14/2000 Phase 2	VOC, SVOC, RAD, Explosives	Delineate the extent of chemical and radiological compounds found in manholes MH22 and MH35.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB4D003 – Central Acid Area, west of TWP415. EU 4	SB4D003-656-14.5	09/13/2000 Phase 2	VOC, SVOC, RAD, Explosives	Investigate the extent of chemical and radiological compounds found in the groundwater at TWP415 and PCBs found in the soil at SB417 and investigate the presence or absence of nitroaromatic compounds at this location.
SB4D004 - Central Acid Area, next to Sump 25. EU 4	SB4D004-657-14.5	09/14/2000 Phase 2	VOC, RAD	Delineate the extent of compounds found in Sump 25.
SB4D005 - Central Acid Area, south of SB415 . EU 4	SB4D005-658-15.5	09/13/2000 Phase 2	VOC, RAD	Investigate the extent of the organic compounds and uranium isotopes found at SB415.
SB4D006 - Central Acid Area, southeast of SB415 . EU 4	SB4D006-659-15.0	09/14/2000 Phase 2	VOC SVOC RAD	Investigate the extent of the organic compounds and uranium isotopes found at SB415.
SB-DRUM04 - Central portion of EU 4.	SB-DRUM04-3379-1.0	07/09/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Chemically and radiologically characterize the soil beneath abandoned drum.
SB-DRUM05 - North-central portion of EU 4	SB-DRUM05-3382-1.0	07/09/2003 Phase 3	VOC , SVOC, Metals, RAD, PEST, PCB, PAH	Chemically and radiologically characterize the soil beneath abandoned drum.
SB-DRUM06 - Northeast quadrant of EU 4	SB-DRUM06-3396-1.0	07/12/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Chemically and radiologically characterize the soil beneath abandoned drum.
SB-DRUM07 - West-central portion of EU 4	SB-DRUM07-3399-1.0	07/12/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Chemically and radiologically characterize the soil beneath abandoned drum.
SB-EU041 - West central portion of EU 4 near rubble filled depression	SB-EU041-3310-1.0	07/10/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Delineate the extent of chemical and radiological compounds found in SB412.
SB-EU042 - West central portion of EU 4 south of rubble filled depression	SB-EU042-3311-1.0	07/10/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence and extent of chemical and radiological compounds previously identified in the LOOW RI in the soil near this area. This area was not part of any previous radiological investigation at the site.
SB-MW422 – South of SB424, southeast of MW415A. EU 4	SB-MW422-15.0-3609	09/17/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH , Explosives	Samples collected from MW411A, MW415A and sewer water samples in this area contained chlorinated solvents. This boring was installed and sampled to further investigate the extent of the chlorinated solvents and the presence or absence of other parameters in the soil.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB-MW423 – South of SB424 and northeast of MW415A. EU 4	SB-MW423-15.0-3612	09/16/2003 Phase 3	VOC SVOC, Metals, RAD, PEST, PCB, PAH, Explosives	Samples collected from MW411A, MW415A and sewer water samples in this area contained chlorinated solvents. This boring was installed and sampled to further investigate the extent of the chlorinated solvents and the presence or absence of other parameters in the soil.
SB-MW424 – East of MW411A and north of MW423. EU 4	SB-MW424-14.0-3621	09/22/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH, Explosives	Samples collected from MW411A, MW415A and sewer water samples in this area contained chlorinated solvents. This boring was installed and sampled to further investigate the extent of the chlorinated solvents and the presence or absence of other parameters in the soil.
TB404 - Acid Area, south of "N" Street. EU 4	TB404-2824-03.3-005	05/17/2002 Phase 3	SVOC RAD PEST PCB	This trench was located to investigate the sewer and underground piping, as well as the potential debris area in the former Acid Area just south of "N" Street. The location of the trench examined ferrous zone anomalies FZ310 and FZ 328 that were reported in the geophysical investigation of the area.
TB404 - Acid Area, south of "N" Street. EU 4	TB404-2825-06.2-021	05/17/2002 Phase 3	SVOC RAD PEST PCB	This trench was located to investigate the sewer and underground piping, as well as the potential debris area in the former Acid Area just south of "N" Street. The location of the trench examined ferrous zone anomalies FZ310 and FZ 328 that were reported in the geophysical investigation of the area.
TB404 - Acid Area, south of "N" Street. EU 4	TB404-2856-02.3-028	05/17/2002 Phase 3	SVOC RAD PEST PCB	This trench was located to investigate the sewer and underground piping, as well as the potential debris area in the former Acid Area. The location of the trench examined ferrous zone anomalies FZ310 and FZ 328 that were reported in the geophysical investigation of the area.
TB406 - South of "N" Street and west of Castle Garden Road. EU 4	TB406-2826-07.0-043	05/16/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	This trench investigated the debris pile south of "N" Street and west of Castle Garden Road cut-through in the former Acid Area. The debris pile includes PVC and steel pipes, rubble, and gray foam products. The location of the trench examined ferrous zone anomalies FZ333 and FZ328 that were reported in the geophysical investigation of the area.
TB406 - South of "N" Street and west of Castle Garden Road. EU 4	TB406-2827-02.0-027	05/16/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	This trench investigated the debris pile south of "N" Street and west of Castle Garden Road cut-through in the former Acid Area. The debris pile includes PVC and steel pipes, rubble, and gray foam products. The location of the trench examined ferrous zone anomalies FZ333 and FZ328 that were reported in the geophysical investigation of the area.
TB406 - South of "N" Street and west of Castle Garden Road. EU 4	TB406-2828-01.0-010	05/16/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	This trench investigated the debris pile south of "N" Street and west of Castle Garden Road cut-through in the former Acid Area. The debris pile includes PVC and steel pipes, rubble, and gray foam products. The location of the trench examined ferrous zone anomalies FZ333 and FZ328 that were reported in the geophysical investigation of the area.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
TB408 - South of "N" Street and west of Castle Garden Road. EU 4	TB408-2829-02.7-005	05/16/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	This trench investigated the debris pile south of "N" Street and east of Castle Garden Road cut-through in the former Acid Area. The debris pile includes rubble and asphalt roofing materials. The location of the trench examined a ferrous zone anomaly FZ328 that was reported in the geophysical investigation of the area.
TB408 - South of "N" Street and west of Castle Garden Road. EU 4	TB408-2830-03.9-021	05/16/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	This trench investigated the debris pile south of "N" Street and east of Castle Garden Road cut-through in the former Acid Area. The debris pile includes rubble and asphalt roofing materials. The location of the trench examined a ferrous zone anomaly FZ328 that was reported in the geophysical investigation of the area.
TB408 - South of "N" Street and west of Castle Garden Road. EU 4	TB408-2831-04.7-054	05/16/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	This trench investigated the debris pile south of "N" Street and east of Castle Garden Road cut-through in the former Acid Area. The debris pile includes rubble and asphalt roofing materials. The location of the trench examined a ferrous zone anomaly FZ328 that was reported in the geophysical investigation of the area.
TB414 - Western end of the Acid Area. EU 4	TB414-2844-05.5-004	05/20/2002 Phase 3	SVOC, RAD	It appears that the soil surrounding the trench location has been disturbed and/or previously remediated. No gamma walkover survey was provided in this area. The location of the trench examined ferrous zone anomaly FZ328 that was reported in the geophysical investigation of the area.
TB414 - Western end of the Acid Area. EU 4	TB414-2845-08.0-040	05/20/2002 Phase 3	SVOC, RAD	It appears that the soil surrounding the trench location has been disturbed and/or previously remediated. No gamma walkover survey was provided in this area. The location of the trench examined ferrous zone anomaly FZ328 that was reported in the geophysical investigation of the area.
TB414 - Western end of the Acid Area. EU 4	TB414-2846-01.0-043	05/20/2002 Phase 3	SVOC, RAD	It appears that the soil surrounding the trench location has been disturbed and/or previously remediated. No gamma walkover survey was provided in this area. The location of the trench examined ferrous zone anomaly FZ328 that was reported in the geophysical investigation of the area.
SB420 – Southern perimeter of EU 5, adjacent to wells OW20D and OW20S	SB420-142-7	11/17/1999 Phase 1	VOC SVOC, Metals, RAD, TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with the ammonia manufacturing plant and a 1953 explosion and fire site and investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil west of this location.
SB421 - East of central Acid Area. EU 5	SB421-143-16	12/01/1999 Phase 1	SVOC Metals RAD TOC	Investigate the potential presence or absence of chemical and radiological compounds in soil in the central portion of the panhandle of the NFSS.
SB423 - Southern perimeter of EU 5, west of BH60	SB423-719-10.0	09/12/2000 Phase 2	SVOC Metals RAD	Investigate the potential presence or absence of chemical and radiological compounds in the soil along the southern boundary of the NFSS along the former haul road and rail line for the K-65 waste and the location of a drum storage and handling area.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB424 – Northern perimeter of EU 5 and NFSS, east of BH51	SB424-720-16.0	09/10/2000 Phase 2	RAD	Investigate the potential presence or absence of radiological compounds in the soil along the northern boundary of the NFSS near the former haul road for the K-65 waste.
SB4G002 - North-central Panhandle. EU 5	SB4G002-2366	10/07/2001 Phase 3	RAD	Investigate the presence or absence of radiological compounds east of the Acid Area.
SB4G002 - North-central Panhandle. EU 5	SB4G002-2367	10/07/2001 Phase 3	RAD	Investigate the presence or absence of radiological compounds east of the Acid Area.
SB4G002 - North-central Panhandle. EU 5	SB4G002-2368	10/07/2001 Phase 3	RAD	Investigate the presence or absence of radiological compounds east of the Acid Area.
SB601 - Central Panhandle, west of former Building 434. EU 5	SB601-150-13	12/02/1999 Phase 1	SVOC Metals RAD TOC	Investigate the presence or absence of chemical and radiological compounds east of the Acid Area and west of former Building 434 which stored radioactive residue.
SB605 – South and adjacent to O St. and south of TWP604	SB605-726-16.5	09/11/2000 Phase 2	Metals RAD	Further delineate the extent of the gamma measurements, uranium isotopes and metals found in SB603. O St. was a haul road and this area was also the location of the former "thaw house."
SB6A001 - West of former Building 434, in SE corner of EU 5.	SB6A001-2318 2.0	10/07/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB6A001 - West of former Building 434, in SE corner of EU 5.	SB6A001-2362	10/07/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB6A001 - West of former Building 434, in SE corner of EU 5.	SB6A001-2363	10/07/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB6A006 - West of former Building 434, in SE corner of EU 5.	SB6A006-2324 2.0	10/07/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB811 - Formerly univestigated area, northeast corner of EU 5.	SB811-164-23	12/02/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives, TOC, CEC	Investigate the potential presence or absence of chemical and radiological compounds in soil along the northern boundary of the panhandle of the NFSS. No previous soil data was obtained near this location.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB-EU051 - Southeast corner of EU 5, southeast of 6A001.	SB-EU051-3312-1.0	07/10/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Delineate the extent of organic, inorganic and radiological compounds found in SB6A001.
SB-EU052 - South-central portion of EU 5.	SB-EU052-3313-1.5	07/10/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Located in a previously univestigated area to investigate the presence and extent of organic, inorganic or radiological compounds previously identified in the LOOW RI in the soil near this area.
TB410 - Northwest of a foundation south of "N" Street. EU 5	TB410-2832-06.0-008	05/21/2002 Phase 3	VOC SVOC RAD	This trench was located to investigate a potential tank located northwest of a building foundation south of "N" Street. This trench was placed on the western edge of the slab. The trench was positioned to examine an unnamed conductive zone anomaly that was reported in the geophysical investigation of the area.
TB410 - Northwest of a foundation south of "N" Street. EU 5	TB410-2833-02.0-035	05/21/2002 Phase 3	VOC SVOC RAD	This trench was located to investigate a potential tank located northwest of a building foundation south of "N" Street. This trench was placed on the western edge of the slab. The trench was positioned to examine an unnamed conductive zone anomaly that was reported in the geophysical investigation of the area.
TB410 - Northwest of a foundation south of "N" Street. EU 5	TB410-2834-04.0-055	05/21/2002 Phase 3	VOC SVOC RAD	This trench was located to investigate a potential tank located northwest of a building foundation south of "N" Street. This trench was placed on the western edge of the slab. The trench was positioned to examine an unnamed conductive zone anomaly that was reported in the geophysical investigation of the area.
SB602 – Southwest corner of EU 6, southwest of former Building 434.	SB602-151-15	11/16/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives, TOC, CEC	Investigate the potential presence or absence of chemical and radiological compounds in the soil near the former water storage tower where K-65 wastes were stored.
SB603 – Near former Building 434, south of N St. EU 6	SB603-152-15	11/16/1999 Phase 1	VOC	Investigate the potential presence or absence of organic compounds in the soil near the former water storage tower where K-65 wastes were stored.
SB604 - Southeast of SB603 and former Building 434. EU 6	SB604-153-15	11/07/1999 Phase 1	SVOC Metals RAD TOC	Investigate the potential presence or absence of chemical and radiological compounds in the soil near the former water storage tower where K-65 wastes were stored.
SB606 - Southeast corner of EU 6.	SB606-727-18.0	08/25/2000 Phase 2	RAD	Investigate the presence or absence of radiological impact at the property line. This area is southeast of the former "thaw house"
SB607 – Eastern NFSS perimeter, near BH63 and BH57. EU 6	SB607-728-17.0	09/11/2000 Phase 2	VOC SVOC Metals RAD	Further delineate the extent of chemical and radiological parameters found in SB603, to investigate the presence or absence of chemical and radiological compounds in the soil at the NFSS boundary+E204. This sample point is located southwest of the extraction wells for the CWM property.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB6B005 - West of southeast corner, along "O" Street. EU 6	SB6B005-2359	10/06/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB6B005 - West of southeast corner, along "O" Street. EU 6	SB6B005-2360	10/06/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB6B005 - West of southeast corner, along "O" Street. EU 6	SB6B005-2361	10/06/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB812 - Northeast corner of panhandle, north of "N" Street. EU 6	SB812-165-10	11/08/1999 Phase 1	SVOC, Metals, RAD, TOC, Explosives	Investigate the formerly uninvestigated area north of former Building 434 residual storage.
SB824 - Northern property line. EU 6	SB824-741-13.0	09/11/2000 Phase 2	RAD	Investigate the formerly uninvestigated area along the northern property line with CWM.
SB825 - Northeast corner of EU 6 northeast of Building 434.	SB825-742-9.5	09/11/2000 Phase 2	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	Further delineate the radiological parameters found in SB603, to investigate the presence or absence of chemical and radiological compounds in the soil at the NFSS boundary in an area that has not previously been investigated.
SB828 - Property line with Modern Landfill. EU 6	SB828-418-0.5	08/31/2000 Phase 2	RAD	The purpose of this boring was investigate the formerly uninvestigated area along the northern property line with Modern Landfill.
SB829 - Southeast corner of EU 6.	SB829-419-1.3	09/15/2000 Phase 2	RAD	Investigate the presence or absence of radiological compounds at the property line. This area is southeast of the former "thaw house"
SB-EU061 - Southeast corner of EU 6.	SB-EU061-3314-2.0	07/10/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Delineate the extent of chemical and radiological compounds found in SB829.
SB-EU062 - Southeast corner of EU 6.	SB-EU062-3315-2.0	07/10/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Delineate the extent of chemical and radiological compounds found in SB829.
SB806 - Between Campbell Street and Central Ditch. EU 7	SB806-159-18.9	11/06/1999 Phase 1	VOC, Metals, RAD, TOC	Investigate the presence or absence of chemical and radiological compounds in the soil in an area that has not previously been investigated.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB807 - East of Lutts Road, "O" Street, the Central Ditch and "N" Street. EU 7	SB807-160-18.2	11/06/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, TOC, Explosives, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil in an area that has not previously been investigated. No previous soil data was obtained near this location.
SB820 - North of the IWCS, Disposal Area B. EU 7	SB820-737-18.5	09/08/2000 Phase 2	RAD	Further delineate the elevated levels of radium-226 found in SB806 and SB807 and to confirm previous remediation performed by DOE. Documentation of confirmation sampling was not found during the records search.
SB821 – Northwest of the IWCS, NFSS boundary. EU 7	SB821-738-12.0	09/09/2000 Phase 2	RAD	Confirm previous remediation performed by DOE. Documentation of confirmation sampling was not found during the records search. This location is west of SB807 that exhibited levels of radium-226.
SB8D003 - Southeast intersection Lutz Road and "O" Street. EU 7	SB8D003-2233 0.75	09/05/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D003 - Southeast intersection Lutz Road and "O" Street. EU 7	SB8D003-2236 1.0	09/06/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D003 - Southeast intersection Lutz Road and "O" Street. EU 7	SB8D003-4.5-3645	09/22/2003 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D004 - Southeast intersection Lutz Road and "O" Street. EU 7	SB8D004-2222 1.8	09/05/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D006 - Southeast intersection Lutz Road and "O" Street. EU 7	SB8D006-2.5-3646	09/22/2003 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D006 - Southeast intersection Lutz Road and "O" Street. EU 7	SB8D006-2232 0.8	09/05/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D006 - Southeast intersection Lutz Road and "O" Street. EU 7	SB8D006-2237 1.5	09/06/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D006 - Southeast intersection Lutz Road and "O" Street EU 7	SB8D006-2238 2.0	09/06/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.

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Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB8D007 - Southeast intersection Lutz Road and "O" Street. EU 7	SB8D007-2223 1.8	09/05/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D009 - North of IWCS; east of Lutz Road. EU 7	SB8D009-2.5-3647	09/22/2003 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D009 - North of IWCS; east of Lutz Road. EU 7	SB8D009-2224 2.0	09/05/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D011 - North of IWCS; east of Lutz Road. EU 7	SB8D011-2225 2.0	09/06/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D012 - Southeast intersection Lutz Road and "O" Street. EU 7	SB8D012-2227 2.0	09/05/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D013 - Southwest intersection Lutz Road and "O" Street. EU 7	SB8D013-2228 1.7	09/07/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D014 - North of IWCS; west of Lutz Road. EU 7	SB8D014-2229 2.0	09/07/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D015 - Southeast intersection Lutz Road and "O" Street. EU 7	SB8D015-2230 2.0	09/05/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D016 - North of IWCS; east of Lutz Road. EU 7	SB8D016-2231 2.0	09/06/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8D016 - North of IWCS; east of Lutz Road. EU 7	SB8D016-3.5-3634	09/22/2003 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8E003 - North of IWCS; South of "O" Street. EU 7	SB8E003-2234 1.0	09/06/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB8E003 - North of IWCS; South of "O" Street. EU 7	SB8E003-2235-1.5	09/06/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB8E003 - North of IWCS; South of "O" Street. EU 7	SB8E003-5.0-3649	10/02/2003 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB-EU071 - West-central portion of EU 7	SB-EU071-3316-2.0	07/10/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Delineate the extent of chemical and radiological compounds found in SB8D006 and SB8D009.
SB-EU072 - West-central portion of EU 7	SB-EU072-3317-1.5	07/10/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Delineate the extent of chemical and radiological compounds found in SB8D006 and SB8D009.
SB835 – Northwest of the IWCS, north of SB821. EU 7	SB-TWP835-15.0-3516	09/20/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence, absence and migration of chemical and radiological compounds in the soil associated with a former disposal area near this location.
SB836 – Northeast of intersection of Lutts Rd. and IWCS. EU 7	SB-TWP836-15.0-3519	09/21/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Further characterize the soil at the former DOE organic burial area, delineate the radium and thorium present in SB820. Activities in the organic burial area may have resulted in the presence of a wide variety of radiological and non-radiological compounds.
SB837 – East of SB807 and the IWCS. EU 7	SB-TWP837-19.0-3522	09/21/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	The boring is located within the former DOE dewatering Pond 3 to delineate chemical and radiological compounds present in SB807.
SB-TWP838 - Former Disposal Area, north of IWCS. EU 7	SB-TWP838-14.0-3525	09/30/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This trench was located to investigate the former disposal area located north of the IWCS.
SB840 – Northeast of the IWCS. EU 7	SB-TWP840-12.0-3531	09/18/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	The boring is located within the former DOE dewatering Pond 4 to investigate the radium present in SB806 and to further characterize chemical constituents at the location. Previous activities within the DOE WWTP may have resulted in the presence of a wide variety of radiological and non-radiological compounds.
TB802 - Disposal area north of the IWCS. EU 7	TB802-2901-04.2-008	05/23/2002 Phase 3	SVOC, Metals, RAD, PEST, PCB	This trench was located to investigate the former disposal area located north of the IWCS.
TB802 - Disposal area north of the IWCS. EU 7	TB802-2902-04.0-018	05/23/2002 Phase 3	SVOC, Metals, RAD, PEST, PCB	This trench was located to investigate the former disposal area located north of the IWCS.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
TB802 - Disposal area north of the IWCS. EU 7	TB802A-2903-03.8-096	05/31/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB	This trench was located to investigate the former disposal area located north of the IWCS.
TB808 - Organic burial area north of the IWCS. EU 7	TB808-2850-04.5-016	05/20/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	The location of this trench was to investigate the organic burial area north of the IWCS. Some of the material in the organic burial area trench may have been partially burned prior to placement.
TB808 - Organic burial area north of the IWCS. EU 7	TB808-2851-01.5-020	05/20/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	The location of this trench was to investigate the organic burial area north of the IWCS. Some of the material in the organic burial area trench may have been partially burned prior to placement.
TB808 - Organic burial area north of the IWCS. EU 7	TB808-2852-01.5-016	05/20/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	The location of this trench was to investigate the organic burial area north of the IWCS. Some of the material in the organic burial area trench may have been partially burned prior to placement.
SB301 - Southern Shop Area. EU 8	SB301-103-10	12/01/1999 Phase 1	SVOC, RAD, TOC	Investigate the presence or absence of chemical and radiological compounds associated with a trench of unknown origin present at this location.
SB302 - Near Building 421 and the K-65 drum storage area. EU 8	SB302-104-11	11/18/1999 Phase 1	VOC, SVOC, Metals, RAD,PCB, PEST, Explosives, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with a nearby concrete rubble pile and the former K-65 drum storage area, to investigate the extent of organic and/or organic compounds previously identified in the LOOW RI in the soil near this area.
SB303 - In the central Shop Area, adjacent to former gas station. EU 8	SB303-105-8	12/01/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with a possible fuel oil pipeline, UST and former uranium rod storage area.
SB304 - East of change house and uranium rod storage area. EU 8	SB304-106-9	12/01/1999 Phase 1	SVOC, Metals, RAD, TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with a possible fuel oil pipeline, railroad bed and former uranium rod storage area.
SB305 - East of the Shop Area, adjacent to Manhole 41. EU 8	SB305-110-12.5	12/02/1999 Phase 1	SVOC, RAD, TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with a trench of unknown origin present at this location.
SB306 - East of the former combined shop building. EU 8	SB306-111-12.5	12/02/1999 Phase 1	VOC SVOC Metals RAD TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with the combined shop and nearby locomotive shop and to investigate potential migration of site-related constituents near the property boundary.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
TWP307 - South of the former combined shop building. EU 8	SB307-112-10	12/02/1999 Phase 1	SVOC Metals RAD TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with a trench of unknown origin present at this location.
SB308 - Adjacent to the former combined shop building. EU 8	SB308-113-19	11/17/1999 Phase 1	VOC, SVOC, Metals, RAD, PCB, PEST, Explosives, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with Building 430 and to investigate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this area.
SB309 - Adjacent to the former combined shop building. EU 8	SB309-114-19	11/17/1999 Phase 1	VOC, SVOC, Metals, RAD,PCB, PEST, Explosives, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with former Building 430.
SB310 – Near former change houses. EU 8	SB310-115-8.5	12/02/1999 Phase 1	VOC SVOC Metals RAD TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with the change houses.
SB311 – Between the riggers shop and the millwright shop. EU 8	SB311-116-13	11/18/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with the riggers shop (uranium dust stored).
SB312 – West side of the EU and Shop Area. EU 8	SB312-117-15	11/18/1999 Phase 1	VOC SVOC RAD TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with the service house.
SB314 - West of Sixth Street near the "O" Street south ditch. EU 8	SB314-415-1.5	09/14/2000 Phase 2	RAD	Investigate the 34,000 cpm gamma measurement found during the walkover survey.
SB3A017 - Northwest corner of EU 8.	SB3A017-2249 1.0	09/08/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during the gamma walkover.
SB3A017 - Northwest corner of EU 8.	SB3A017-5.0-3635	09/17/2003 Phase 3	RAD	Investigate the vertical extent of radiological compounds at an area of radiological activity above background found during field activities.
SB3A020 - Northwest corner of EU 8.	SB3A020-2391 2.0	11/16/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during field activities.
SB3A020 - Northwest corner of EU 8.	SB3A020-5.0-3636	09/22/2003 Phase 3	RAD	Investigate the vertical extent of radiological compounds at an area of radiological activity above background found during field activities.
SB3B011 - Central Shop Area. EU 8	SB3B011-2399 2.0	11/15/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during field activities.
SB3B013 - Central Shop Area. EU 8	SB3B013-2403 2.0	11/15/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during field activities.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB3C014 - South of Combined Shops Area. EU 8	SB3C014-2472 1.0	11/16/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during field activities.
SB3C014 - South of Combined Shops Area. EU 8	SB3C014-2473 2.0	11/16/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during field activities.
SB3C014 - South of Combined Shops Area. EU 8	SB3C014-5.0-3638	09/17/2003 Phase 3	RAD	Investigate the vertical extent of radiological compounds at an area of radiological activity above background found during field activities.
SB3C015 - Adjacent to Combined Shops Area. EU 8	SB3C015-2475 1.5	11/16/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during field activities.
SB3C015 - Adjacent to Combined Shops Area. EU 8	SB3C015-5.0-3639	09/17/2003 Phase 3	RAD	Investigate the vertical extent of radiological compounds at an area of radiological activity above background found during field activities.
SB3D001 - Eastern perimeter of EU 8, adjacent to debris pile.	SB3D001-2476 1.0	11/16/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during field activities.
SB3D001 - Eastern perimeter of EU 8, adjacent to debris pile.	SB3D001-5.0-3632	10/01/2003 Phase 3	RAD	Investigate the vertical extent of radiological compounds at an area of radiological activity above background found during field activities.
SB3D002 - Eastern perimeter of EU 8, adjacent to debris pile.	SB3D002-5.0-3633	09/22/2003 Phase 3	RAD	Investigate the vertical extent of radiological compounds at an area of radiological activity above background found during field activities.
SB3D003 - Eastern perimeter of EU 8, north of debris pile.	SB3D003-2417 2.0	11/17/2001 Phase 3	RAD	Investigate the horizontal and vertical extent of radiological activity above background found during field activities.
SB3D006 - Northeast corner of Combined Shops Building. EU 8	SB3D006-5.0-3630	09/22/2003 Phase 3	RAD	Investigate the vertical extent of radiological compounds at an area of radiological activity above background found during field activities.
SB-EU081 - Southeast corner of EU 8, within debris pile.	SB-EU081-3318-1.5	07/11/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Further investigate the debris pile.

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Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB-EU082 - Southeast corner of EU 8, within debris pile.	SB-EU082-3319-1.5	07/11/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Further investigate the debris pile.
SB-MH41 - Eastern perimeter of EU 8, north of debris pile.	SB-MH41-8.0-3656	10/01/2003 Phase 3	RAD	Further investigate radiological parameters found in Manhole 41.
SB-MH43 - Central Shops Area. EU 8	SB-MH43-9.0-3655	10/01/2003 Phase 3	RAD	Further investigate radiological parameters found in Manhole 43.
SB-MH45 - Central Shops Area. EU 8	SB-MH45-9.0-3654	10/01/2003 Phase 3	RAD	Further investigate radiological parameters found in Manhole 45.
SB-MW313 – West of Building 421. EU 8	SB-MW313-11.0-3591	09/17/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Samples collected from MW302A (east of MW313) indicated the presence of VOCs, SVOCs and uranium isotopes. This boring was installed and sampled to investigate the presence or absence of chemical and radiological parameters in the soil west of MW302A.
SB-MW314 - South of debris pile. EU 8	SB-MW314-15.0-3594	09/17/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Samples collected from MW302A (northeast of MW314) indicated the presence of VOCs, SVOCs and uranium isotopes. This boring was installed and sampled to investigate the presence or absence of chemical and radiological parameters in the soil west of MW302A.
SB-Pipe74 - Former Garage Building EU 8	SB-PIPE74-7.0 3657	10/03/2003 Phase 3	VOC RAD	Further investigate chemical and radiological parameters found in Pipe 74.
TB301 - Pipeline visible from a former rail line, south of "Z" Street. EU 8	TB301-2809-03.5-034	05/20/2002 Phase 3	VOC SVOC Metals RAD	This trench was located to investigate the pipeline and suspect UST. The location of the trench examined a ferrous zone anomaly FZ535 that was reported in the geophysical investigation of the area.
TB301 - Pipeline visible from a former rail line, south of "Z" Street. EU 8	TB301-2810-01.5-003	05/20/2002 Phase 3	VOC SVOC Metals RAD	This trench was located to investigate the pipeline and suspect UST. The location of the trench examined a ferrous zone anomaly FZ535 that was reported in the geophysical investigation of the area.
TB301 - Pipeline visible from a former rail line, south of "Z" Street. EU 8	TB301-2811-01.0-029	05/20/2002 Phase 3	VOC SVOC Metals RAD	This trench was located to investigate the pipeline and suspect UST. The location of the trench examined a ferrous zone anomaly FZ535 that was reported in the geophysical investigation of the area.
TB302 - Debris pile south of "Z" Street and west of Castle Garden Road. EU 8	TB302-2812-08.0-004	05/21/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	This trench investigated the debris pile south of "Z" Street and west of Castle Garden Road. The debris pile includes large blocks of concrete. Due to uneven terrain, no gamma walkover activities were performed in the area of this debris pile. The location of the trench examined a ferrous zone anomaly FZ536 that was reported in the geophysical investigation of the area.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
TB302 - Debris pile south of "Z" Street and west of Castle Garden Road. EU 8	TB302-2813-01.0-042	05/21/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	This trench investigated the debris pile south of "Z" Street and west of Castle Garden Road. The debris pile includes large blocks of concrete. Due to uneven terrain, no gamma walkover activities were performed in the area of this debris pile. The location of the trench examined a ferrous zone anomaly FZ536 that was reported in the geophysical investigation of the area.
TB302 - Debris pile south of "Z" Street and west of Castle Garden Road. EU 8	TB302-2814-06.0-074	05/21/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	This trench investigated the debris pile south of "Z" Street and west of Castle Garden Road. The debris pile includes large blocks of concrete. Due to uneven terrain, no gamma walkover activities were performed in the area of this debris pile. The location of the trench examined a ferrous zone anomaly FZ536 that was reported in the geophysical investigation of the area.
TB303 - North of a building foundation. EU 8	TB303-2815-05.0-009	05/17/2002 Phase 3	VOC, SVOC, RAD	This trench was located to investigate a potential tank located north of a building foundation. The trench was placed along the concrete foundation. The location of the trench examined ferrous zone anomaly FZ530 that was reported in the geophysical investigation of the area.
TB303 - North of a building foundation. EU 8	TB303-2816-01.0-016	05/17/2002 Phase 3	VOC, SVOC, RAD	This trench was located to investigate a potential tank located north of a building foundation. The trench was placed along the concrete foundation. The location of the trench examined ferrous zone anomaly FZ530 that was reported in the geophysical investigation of the area.
TB303 - North of a building foundation. EU 8	TB303-2817-05.0-033	05/17/2002 Phase 3	VOC, SVOC, RAD	This trench was located to investigate a potential tank located north of a building foundation. The trench was placed along the concrete foundation. The location of the trench examined ferrous zone anomaly FZ530 that was reported in the geophysical investigation of the area.
TB304 - Former garage/maintenance area. EU 8	TB304-2818-01.3-000	05/21/2002 Phase 3	SVOC, RAD	This trench was located to investigate an open concrete sump and potential underground piping in the former garage/maintenance area of the former LOOW. Petroleum staining was observed during collection of the samples from the pipe during the pipeline investigation. The location of the trench examined a ferrous zone anomaly FZ539 that was reported in the geophysical investigation of the area.
TB304 - Former garage/maintenance area. EU 8	TB304-2819-06.5-023	05/21/2002 Phase 3	SVOC, RAD	This trench was located to investigate an open concrete sump and potential underground piping in the former garage/maintenance area of the former LOOW. Petroleum staining was observed during collection of the samples from the pipe during the pipeline investigation. The location of the trench examined a ferrous zone anomaly FZ539 that was reported in the geophysical investigation of the area.
TB304 - Former garage/maintenance area. EU 8	TB304-2820-07.0-073	05/21/2002 Phase 3	SVOC, RAD	This trench was located to investigate an open concrete sump and potential underground piping in the former garage/maintenance area of the former LOOW. Petroleum staining was observed during collection of the samples from the pipe during the pipeline investigation. The location of the trench examined a ferrous zone anomaly FZ539 that was reported in the geophysical investigation of the area.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
TB305 - debris pile south of "Z" Street and west of Castle Garden Road. EU 8	TB305-2922-04.0-014	06/01/2002 Phase 3	RAD	This trench was located to further investigate the debris pile south of "Z" Street and west of Castle Garden Road.
TB305 - debris pile south of "Z" Street and west of Castle Garden Road. EU 8	TB305-2923-05.0-050	06/01/2002 Phase 3	RAD	This trench was located to further investigate the debris pile south of "Z" Street and west of Castle Garden Road.
TB305 - debris pile south of "Z" Street and west of Castle Garden Road. EU 8	TB305-2924-05.0-080	06/01/2002 Phase 3	RAD	This trench was located to further investigate the debris pile south of "Z" Street and west of Castle Garden Road.
SB101 - Western perimeter of EU 10, west of the IWCS.	SB101-714-10.5	09/08/2000 Phase 2	RAD	Investigate the potential extent of radiological compounds in the soil in an area previously remediated by DOE. Documentation of confirmation sampling was not found during the records search. This location is north of sediment sample SD703 that exhibited radiological activity above background.
TWP102 - Western perimeter of EU 10, west of the IWCS.	SB102-715-9.5	09/08/2000 Phase 2	Metals, RAD, SVOC	Confirm previous remediation of the area and provide a representative number of sampling points in this EU. Documentation of confirmation sampling was not found during the records search.
SB103 - Western perimeter of EU 10, west of the IWCS.	SB103-716-10.5	09/08/2000 Phase 2	Metals, RAD	Confirm previous remediation of the area and provide a representative number of sampling points in this EU. Documentation of confirmation sampling was not found during the records search.
SB864 - West of IWCS. EU 10	SB864-10.0-3648	10/02/2003 Phase 3	RAD	To delineate radiological compounds found in the adjacent ditch.
SB-EU101 - North-central portion of EU 10.	SB-EU101-3400-1.0	07/11/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence and extent of chemical and radiological compounds previously identified in the LOOW RI in the soil near this area. This area was not part of any previous radiological investigation at the site.
SB-EU102 - South-central portion of EU 10.	SB-EU102-3323-2.0	07/11/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence and extent of chemical and radiological compounds previously identified in the LOOW RI in the soil near this area. This area was not part of any previous radiological investigation at the site.
SB-EU103 - East-central portion of EU 10.	SB-EU103-3324-1.0	07/11/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence and extent of chemical and radiological compounds previously identified in the LOOW RI in the soil near this area. This area was not part of any previous radiological investigation at the site.
SB-MH06 - Southeast quadrant of EU 10.	SB-MH06-8.5-3650	10/01/2003 Phase 3	RAD	Further investigate radiological parameters found in Manhole 6.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB-MH07 - Southeast corner of EU 10	SB-MH07-11.0 3651	09/30/2003 Phase 3	RAD	Further investigate radiological parameters found in Manhole 6.
SB-MW860 - Eastern slope of IWCS. EU 10	SB-MW860-15.0-3597	09/21/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Groundwater samples collected from A50, and A45 northwest of this location contained radiological parameters. This boring was installed and sampled to further investigate the extent of these parameters and the presence or absence of other chemical and radiological parameters in the soil on the northeastern perimeter of the IWCS.
SB-MW861 - Eastern slope of IWCS. EU 10	SB-MW861-34.5-3596	09/20/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Groundwater samples collected from A50, and A45 northwest of this location contained radiological parameters. This boring was installed and sampled to further investigate the extent of these parameters and the presence or absence of other chemical and radiological parameters in the soil on the northeastern perimeter of the IWCS.
SB-MW861 - Eastern slope of IWCS. EU 10	SB-MW861-38.0-3600	09/20/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Groundwater samples collected from A50, and A45 northwest of this location contained radiological parameters. This boring was installed and sampled to further investigate the extent of these parameters and the presence or absence of other chemical and radiological parameters in the soil on the northeastern perimeter of the IWCS.
SB-MW862 - Eastern slope of IWCS. EU 10	SB-MW862-11.5-3603	09/20/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Groundwater samples collected from A50, and A45 northwest of this location contained radiological parameters. This boring was installed and sampled to further investigate the extent of these parameters and the presence or absence of other chemical and radiological parameters in the soil on the northeastern perimeter of the IWCS.
SB-MW863 - Eastern slope of IWCS. EU 10	SB-MW863-32.0-3606	09/20/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Groundwater samples collected from A50, and A45 northwest of this location contained radiological parameters. This boring was installed and sampled to further investigate the extent of these parameters and the presence or absence of other chemical and radiological parameters in the soil on the northeastern perimeter of the IWCS.
SB830 – Fenced area surrounding the IWCS, adjacent to the southwest corner. EU 10	SB-TWP830-15.0-3501	10/02/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring is located outside of the southern clay dike for the IWCS. It was positioned to investigate the integrity of the subsurface clay dike near the southern perimeter of the IWCS.
SB831 - Fenced area surrounding the IWCS, south of the IWCS . EU 10	SB-TWP831-15.0-3504	10/02/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring is located outside of the southern clay dike for the IWCS. It was positioned to investigate the integrity of the subsurface clay dike near the southern perimeter of the IWCS.
SB832 - Fenced area surrounding the IWCS, south of SB858. EU 10	SB-TWP832-12.5-3507	10/02/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring is located outside of the southern clay dike for the IWCS. It was positioned to investigate the integrity of the subsurface clay dike near the southern perimeter of the IWCS.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB833 - Fenced area surrounding the IWCS, near wells OW6A. EU 10	SB-TWP833-10.0-3510	10/02/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring is located outside of the southern clay dike for the IWCS. It was positioned to investigate the integrity of the subsurface clay dike near the southern perimeter of the IWCS.
SB834 - Fenced area surrounding the IWCS, southeast corner . EU 10	SB-TWP834-14.0-3513	10/03/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring is located outside of the southern clay dike for the IWCS. It was positioned to investigate the integrity of the subsurface clay dike near the southern perimeter of the IWCS.
SB839 - Fenced area surrounding the IWCS, northeast of the IWCS. EU 10	SB-TWP839-14.0-3528	09/30/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring is located adjacent to the former DOE disposal area B. It was positioned to further characterize the presence or absence of chemical and radiological compounds in the soil near disposal area B and delineate the levels of radiological parameters found in TWP820 and wells A45 and A52.
SB-TWP844 - West of Hittman Building. EU 10	SB-TWP844-11.0-3543	09/19/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring was located to investigate the Former South Pond.
SB-TWP850 - South of IWCS, outside fence. EU 10	SB-TWP850-17.0-3561	09/21/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring was located to investigate the Former Stockpile Area.
SB-TWP851 - South of IWCS, outside fence. EU 10	SB-TWP851-18.0-3564	09/21/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring was located to investigate the Former Stockpile Area.
SB852 - Fenced area for the IWCS, southwest of the IWCS. EU 10	SB-TWP852-15.0-3567	09/30/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring was located adjacent to the former Building 409 foundation. It was positioned to investigate the presence or absence of chemical and radiological compounds in the soil associated with Building 409.
SB853 - Fenced area for the IWCS, east of SB855 and south of SB832 . EU 10	SB-TWP853-16.5-3570	09/30/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	The boring was located adjacent to the former Building 409 foundation. It was positioned to investigate the presence or absence of chemical and radiological compounds in the soil associated with Building 409.
SB854 - Fenced area for the IWCS, south of well A23A. EU 10	SB-TWP854-13.0-3573	09/30/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring was located adjacent to the former Building 409 foundation. It was positioned to investigate the presence or absence of chemical and radiological compounds in the soil associated with Building 409.
SB855 - Fenced area for the IWCS, south of wells A56 and A57. EU 10	SB-TWP855-15.0-3576	09/30/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring was located within a geophysical anomaly. It was positioned to investigate the presence or absence of chemical and radiological compounds in the soil associated with the geophysical anomaly.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB856 - Fenced area for the IWCS, on the west side. EU 10	SB-TWP856-11.0-3579	10/02/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring was located adjacent to the former Building 409 foundation. It was positioned to investigate the presence or absence of chemical and radiological compounds in the soil associated with Building 409.
SB-TWP857 - East of IWCS, between wells OW11B and OW12B. EU 10	SB-TWP857-11.0-3582	10/02/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring was positioned to investigate a geophysical anomaly.
SB858 - Fenced area for the IWCS, adjacent to the southern perimeter. EU 10	SB-TWP858-16.0-3585	10/02/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring was located adjacent to the former Building 409 foundation. It was positioned to investigate the presence or absence of chemical and radiological compounds in the soil associated with Building 409.
SB859 - Fenced area for the IWCS, southwestern perimeter. EU 10	SB-TWP859-18.0-3588	10/02/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring was located adjacent to the former Building 409 foundation. It was positioned to investigate the presence or absence of chemical and radiological compounds in the soil associated with Building 409.
TB809 - Water storage pits, north of Hittman Building. EU 10	TB809-2906-01.0-045	05/30/2002 Phase 3	RAD	The location of this trench was to investigate the area of the former water storage pits located north of the Hittman Building.
SB218 - Shallow ditch next to Campbell Street and west of Building 429. EU 11	SB218-410-2.0	09/10/2000 Phase 2	RAD	This boring was positioned to investigate the gamma measurement above background found during the walkover survey. No characterization data for this area was available from previous site investigations.
SB2A002 - West of Building 401. EU 11	SB2A002-646-11.0	09/12/2000 Phase 2	VOC, RAD	Investigate the extent of the uranium isotopes found in the groundwater at SB217 and the organics found in SB201. This location is near Building 401 that was used to store radioactive wastes and residues. Associated USTs, a sludge bed and solvent and paint storage buildings were located near Building 401.
SB2A003 – South+A316west of Building 401. EU 11	SB2A003-647-11.5	09/12/2000 Phase 2	VOC, RAD	Investigate the extent of the TCE and the uranium isotopes found in SB201. This location is near the former coal-fired boiler house that was used to store radioactive wastes and residues. Associated USTs and a solvent and paint storage buildings were located near Building 401.
SB2A005 - West of Campbell Street, east of Hittman Building. EU 11	SB2A005-2220 1.7	09/08/2001 Phase 3	RAD	Investigate the gamma measurement above background found during the field screening. No characterization data for this area was available from previous site investigations.
SB2A005 - West of Campbell Street, east of Hittman Building. EU 11	SB2A005-2240	09/08/2001 Phase 3	RAD	Investigate the gamma measurement above background found during the field screening. No characterization data for this area was available from previous site investigations.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB801 – Southwest corner of EU 11, south of the IWCS.	SB801-154-18	11/06/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, TOC, Explosives, CEC	Investigate the presence, absence and migration of chemical and radiological compounds in the soil south of the IWCS at the NFSS boundary.
SB802 – Southeast corner of the IWCS. EU 11	SB802-155-17	11/06/1999 Phase 1	SVOC, Metals, RAD, PEST, PCB, TOC, Explosives, CEC	Investigate the presence, absence and migration of chemical and radiological compounds near the IWCS associated with the former "lay down area".
SB803 - West of fenceline, north of "R" Street. EU 11	SB803-156-7.5	11/17/1999 Phase 1	SVOC Metals RAD TOC	Investigate a previously uninvestigated area south of Building 401 and west of a low-lying marshy area.
SB805 – Northeast of the IWCS and the South 16 Ditch. EU 11	SB805-158-7.5	11/07/1999 Phase 1	SVOC, Metals, RAD, PEST, PCB, TOC, Explosives, CEC	Investigate the presence, absence and migration of chemical and radiological compounds in the soil near the IWCS and the former DOE WWTP (dewatering Pond 5).
SB813 – Southern perimeter of EU 11, south of the IWCS.	SB813-730-10.5	09/09/2000 Phase 2	Metals RAD	Further define the extent of radium, thorium and metals identified in SB801 and investigate the presence, absence and migration of inorganic and radiological compounds in the soil south of the IWCS at the NFSS boundary.
SB814 - Main south entrance to the NFSS. EU 11	SB814-731-19.0	08/30/2000 Phase 2	RAD	Investigate gamma measurements noted during field activities.
SB819 - South of the Decon Pad. EU 11	SB819-736-9.0	09/11/2000 Phase 2	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives	Investigate potential migration of chemical and radiological compounds from the Decon Pad.
SB826 - Southern property line at the Central Ditch. EU 11	SB826-416-1.3	09/14/2000 Phase 2	RAD	Investigate gamma measurements noted during field activities.
SB827 - Southern property line, along Campbell Street. EU 11	SB827-417-2.0	09/13/2000 Phase 2	RAD	Investigate gamma measurements noted during field activities.
SB830 – Northeast corner of EU 11, south-central NFSS property line.	SB830-1037-2.0	09/10/2000 Phase 2	RAD	This boring was located at gamma measurements of 215,000 cpm.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB8A001 - Northeast of Hittman Building. EU 11	SB8A001-2221 2.0	09/08/2001 Phase 3	RAD	Investigate gamma measurements noted during the gamma walkover survey.
SB8A003 - Northeast of Hittman Building. EU 11	SB8A003-2217 2.0	09/08/2001 Phase 3	RAD	Investigate gamma measurements noted during the gamma walkover survey.
SB8A009 – Southwest corner of EU 11, south of the IWCS	SB8A009-2218 2.0	09/07/2001 Phase 3	RAD	Investigate gamma measurements noted during the gamma walkover survey.
SB8A011 - Northeast of Hittman Building. EU 11	SB8A011-2219 2.0	09/10/2001 Phase 3	RAD	Investigate gamma measurements noted during the gamma walkover survey.
SB8B008 – Northeast corner of EU 11.	SB8B008-2440 2.0	11/18/2001 Phase 3	RAD	Investigate gamma measurements noted during the gamma walkover survey.
SB-EU111 - North of Hittman Building. EU 11	SB-EU111-3325-1.5	07/12/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the 'clean water ponds'.
SB-MH07/08 - Southeast of IWCS, between manholes MH07 and MH08. EU 11	SB-MH07/08-11.0-3652	10/01/2003 Phase 3	RAD	Further investigate radiological parameters found in Manholes 7 and 8.
SB-MH08 - Southeast of IWCS. EU 11	SB-MH08-11.0 3653	10/01/2003 Phase 3	RAD	Further investigate radiological parameters found in Manhole 8.
SB-TWP841 - Northern portion of EU 11.	SB-TWP841-10.0-3534	09/18/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate former Pond 5.
SB842 –Western perimeter of EU 11.	SB-TWP842-10.0-3537	10/04/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring is located within the former DOE WWTP (de-watering Pond 5).further investigate the extent of chemical and radiological parameters found in the soil in trenches TB810 and TB811 and in the groundwater in well OW08B.
SB-TWP843 - Northwest of Hittman Building. EU 11	SB-TWP843-10.0-3540	09/19/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate former North Pond.
SB845 - Western perimeter of EU 11.	SB-TWP845-13.0-3546	09/19/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring is located within the former DOE WWTP (south pond).further characterize the presence or absence of chemical and radiological compounds in the soil within the former WTP and investigate the extent of radiological parameters found in the soil in trenches TB809 and TB810 and in the groundwater in well BH70.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB846 – Adjacent to the southeast corner of the IWCS. EU 11	SB-TWP846-16.0-3549	09/19/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring is located within the former DOE area designated as the "laydown area". The purpose of the boring was characterize the presence or absence of chemical and radiological compounds in the soil within this area and delineate the extent of radium and thorium found in the groundwater in wells BH70 and OW12B.
SB847 – Adjacent to the southeast corner of the IWCS. EU 11	SB-TWP847-10.0-3552	09/19/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring is located within the former DOE area designated as the "laydown area". The purpose of the boring was characterize the presence or absence of chemical and radiological compounds in the soil within this area and delineate the extent of radium and thorium found in the groundwater in wells BH70 and OW12B.
SB-TWP848 - Southern perimeter of EU 11.	SB-TWP848-11.0-3555	09/21/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate Total U, Th-230 and U-234 found in the subsurface and to further characterize chemical constituents at the location.
SB849 – Southwest portion of EU 11	SB-TWP849-11.0-3558	09/21/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	This boring is located within the former DOE area designated as the "stockpile area". The purpose of the boring was characterize the presence or absence of chemical and radiological compounds in the soil within this area and delineate extent of radiological parameters found in the groundwater inTWP801 and TWP813.
TB810 - Former water storage pits, north of Hittman Building. EU 11	TB810-2907-02.9-012	06/01/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB	The location of this trench was to investigate the area of the former water storage pits located north of the Hittman Building.
TB810 - Former water storage pits, north of Hittman Building. EU 11	TB810-2908-01.8-041	06/01/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB	The location of this trench was to investigate the area of the former water storage pits located north of the Hittman Building.
TB810 - Former water storage pits, north of Hittman Building. EU 11	TB810-2909-05.8-045	06/01/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB	The location of this trench was to investigate the area of the former water storage pits located north of the Hittman Building.
TB811 - Former water storage pits, north of Hittman Building. EU 11	TB811-2910-04.8-044	06/01/2002 Phase 3	VOC, SVOC, Metals, RAD, PEST, PCB	The location of this trench was to investigate the area of the former water storage pits located north of the Hittman Building.
TB811 - Former water storage pits, north of Hittman Building. EU 11	TB811-2911-02.3-012	06/01/2002 Phase 3	SVOC, Metals, RAD, PEST, PCB	The location of this trench was to investigate the area of the former water storage pits located north of the Hittman Building.
TB811 - Former water storage pits, north of Hittman Building. EU 11	TB811-2912-04.0-047	06/01/2002 Phase 3	SVOC, Metals, RAD, PEST, PCB	The location of this trench was to investigate the area of the former water storage pits located north of the Hittman Building.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
TB812 - South-central perimeter, possible drum staging area. EU 11	TB812-2913-03.0-055	06/01/2002 Phase 3	SVOC, Metals, RAD, PEST, PCB	The location of this trench was to investigate gamma measurements above background found during previous studies.
TB812 - South-central perimeter, possible drum staging area. EU 11	TB812-2914-03.0-014	06/01/2002 Phase 3	SVOC, Metals, RAD, PEST, PCB	The location of this trench was to investigate gamma measurements above background found during previous studies.
TB812 - South-central perimeter, possible drum staging area. EU 11	TB812-2915-05.0-001	06/01/2002 Phase 3	SVOC, Metals, RAD, PEST, PCB	The location of this trench was to investigate gamma measurements above background found during previous studies.
TB813 - Southwest perimeter. EU 11	TB813-2925-08.0-013	06/01/2002 Phase 3	RAD	Investigate gamma measurements noted during the gamma walkover survey.
TB813 - Southwest perimeter. EU 11	TB813-2926-01.0-021	06/01/2002 Phase 3	RAD	Investigate gamma measurements noted during the gamma walkover survey.
TB813 - Southwest perimeter. EU 11	TB813-2927-03.9-029	06/01/2002 Phase 3	RAD	Investigate gamma measurements noted during the gamma walkover survey.
SB204 - Southwest corner of EU 12, near Building B-2.	SB204-088-2	11/19/1999 Phase 1	SVOC	Investigate the presence and extent of organic compounds in the soil associated with residual coal on the surface south of Building 401.
SB204 - Southwest corner of EU 12, near Building B-2.	SB204-088-9	11/19/1999 Phase 1	VOC, SVOC, Metals, RAD, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with Building 401 that was later used to store radioactive wastes and residues. A sludge bed, USTs, and solvent and paint storage buildings were also associated with this area.
SB205 - Southeast corner of EU 12, east-southeast of Building 401.	SB205-089-12.5	11/17/1999 Phase 1	VOC, SVOC, RAD, TOC	This location is near a former railroad line and potentially receives runoff from Modern Landfill.
SB206 – East central perimeter of EU 12, east-northeast of Building 401.	SB206-090-9	11/17/1999 Phase 1	VOC, SVOC, Metals, RAD, TOC	This location is near a former railroad line and potentially receives runoff from Modern Landfill.
SB215 - Northeast of Building 401. EU 12	SB215-099-7.5	12/01/1999 Phase 1	VOC, SVOC, Metals, RAD, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with a concrete vault of unknown origin. This location is near the former coal-fired boiler house that was later used to store radioactive wastes and residues.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB219 - South 16 ditch north of Building 401. EU 12	SB219-411-2.0	09/15/2000 Phase 2	RAD	Investigate the gamma measurement found during the walkover survey. No characterization data for this area was available from previous site investigations.
SB2A001 - Northwest of Building 401. EU 12	SB2A001-645-11.0	09/11/2000 Phase 2	VOC, RAD	Investigate the extent of uranium isotopes found in SB215 and organic compounds found in SB213.
SB2B001 - Southeast of Building 401. EU 12	SB2B001-648-16.0	08/30/2000 Phase 2	SVOC, RAD	Investigate the extent of organic and radiological concentrations found in Phase I.
SB2B002 - Southeast of Building 401. EU 12	SB2B002-649-9.5	08/30/2000 Phase 2	SVOC, RAD	Investigate the extent of organic and radiological concentrations found in Phase I.
SB2C001 – Northwest quadrant of EU 12, north of Building 401.	SB2C001-652-17.0	09/12/2000 Phase 2	VOC, RAD	Investigate the extent of the organic compounds in SB213 and radiological parameters found in SB215. This location is near the former coal-fired boiler house that was later used to store radioactive wastes and residues.
SB3B015 - Southern Shop Area. EU 12	SB3B015-2471 1.25	11/15/2001 Phase 3	RAD	Investigate gamma measurements noted during field activities.
SB3B015 - Southern Shop Area. EU 12	SB3B015-5.0-3637	09/17/2003 Phase 3	RAD	Investigate gamma measurements noted during field activities.
SB-BH218 - Northeast of Building 401. EU 12	SB-BH218-15.0-3660	09/30/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Delineate Ra226, Th230, total U and U238 found in trench 203 and to further characterize chemical constituents at the location.
SB-BH219 - North of Building 401. EU 12	SB-BH219-6.0-3661	10/03/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Delineate Ra226, Th230, total U and U238 found in trench 203 and to further characterize chemical constituents at the location.
SB-EU121 - Center of EU 12.	SB-EU121-3326-2.0	07/12/2003 Phase 3	SVOC, Metals, PEST, PCB, PAH	This boring was located in a previously univestigated area to investigate the presence and extent of organic, inorganic or radiological compounds previously identified in the LOOW RI in the soil near this area.
SB-EU122 - Northeast corner of EU 12	SB-EU122-3407-1.0	07/12/2003 Phase 3	SVOC, Metals, PEST, PCB, PAH	This boring was located in a previously univestigated area to investigate the presence and extent of organic, inorganic or radiological compounds previously identified in the LOOW RI in the soil near this area.
SB201 - Southwest corner of EU 13, south of Building 401	SB201-085-10	11/18/1999 Phase 1	RAD, SVOC, TOC, VOC	The purpose of the boring was to investigate the presence and extent of previously identified TCE in the soil in this area and investigate the presence or absence of organic, inorganic or radiological compounds in the soil associated with the former sludge bed south of Building 401 and associated USTs and solvent and paint storage buildings.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
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Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB203 - Southern perimeter of EU 13, south of Building 401	SB203-087-12	11/19/1999 Phase 1	RAD, VOC, SVOC, TOC	Investigate the presence and extent of previously identified TCE in the soil (old soil gas survey) in this area and investigate the presence or absence of organic, inorganic or radiological compounds in the soil associated with the former sludge bed south of Building 401 and associated USTs and solvent and paint storage buildings.
SB207 - Southwest corner of EU 13, east of Buildings 401, 405, 406 and 407	SB207-091-14	11/21/1999 Phase 1	VOC SVOC Metals RAD TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated a former fuel oil UST that may have been located west of this boring.
SB208 - East of Building 401 and 405, south of 406 and 407. EU 13	SB208-092-05	11/21/1999 Phase 1	SVOC	Investigate the presence or absence of chemical compounds in the soil associated a former fuel oil UST, paint shop and emergency generator that were present near this location.
SB208 - East of Building 401 and 405, south of 406 and 407. EU 13	SB208-092-12	11/21/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, TOC, Explosives, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil associated a former fuel oil UST, paint shop and emergency generator that were present near this location.
SB209 - Northeast of Building 401 and adjacent to Building 407. EU 13	SB209-093-10	11/21/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, TOC, Explosives, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with the building foundation for Building 407 (paint shop).
SB210 - Northeast of Building 401. EU 13	SB210-094-13	11/21/1999 Phase 1	VOC, SVOC, RAD, TOC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with the building foundation for Building 407 (paint shop).
SB211 – Adjacent to the former power transformer station. EU 13	SB211-095-11	11/21/1999 Phase 1	VOC, SVOC, RAD, PEST, PCB, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with two large USTs located west of the building foundation for Building 407 (paint shop).
SB212 - North of Building 401, near the power transformer station. EU 13	SB212-096-12.5	11/18/1999 Phase 1	VOC, SVOC, RAD, TOC	Investigate the presence and extent of previously identified TCE and to investigate the presence or absence of chemical and radiological compounds in the soil associated with a small concrete pad with potential fill pipes.
SB213 - North of Building 401 and the power transformer station. EU 13	SB213-097-12.5	11/18/1999 Phase 1	VOC, SVOC, Metals, RAD,PCB, PEST, Explosives, TOC, CEC	Investigate the presence and extent of previously identified TCE and to investigate the presence or absence of chemical and radiological compounds in the soil associated with a small concrete pad with potential fill pipes.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB213 - North of Building 401 and the power transformer station. EU 13	SB213-097-3	11/18/1999 Phase 1	SVOC, Metals, PEST, PCB	Investigate the presence and extent of previously identified TCE and to investigate the presence or absence of chemical and radiological compounds in the soil associated with a small concrete pad with potential fill pipes.
SB213 - North of Building 401 and the power transformer station. EU 13	SB213-097-7.5	11/18/1999 Phase 1	SVOC, Metals, PEST, PCB	Investigate the presence and extent of previously identified TCE and to investigate the presence or absence of chemical and radiological compounds in the soil associated with a small concrete pad with potential fill pipes.
SB214 - Southwest quadrant of EU 13, north of Building 401.	SB214-098-15	11/18/1999 Phase 1	VOC, SVOC, RAD, TOC	Investigate the presence and extent of previously identified TCE and to investigate the presence or absence of chemical and radiological compounds in the soil associated with a small concrete pad with potential fill pipes.
SB216 - Northwest corner of Building 401. EU 13	SB216-100-10.5	11/18/1999 Phase 1	VOC, SVOC, RAD, TOC, PEST, PCB	Investigate the presence or absence of chemical and radiological compounds in the soil associated with a potential small UST (shown on facility drawings).
SB217 - Southwest corner of Building 401. EU 13	SB217-101-13	11/19/1999 Phase 1	VOC, SVOC, Metals, RAD, PCB PEST, Explosives, TOC, CEC	Investigate the presence or absence of chemical and radiological compounds in the soil associated with an area of stressed vegetation and a possible vent for an UST.
SB220 - East of and adjacent to Building 401. EU 13	SB220-412-1.0	09/13/2000 Phase 2	RAD	Investigate the gamma measurement found during the walkover survey. No characterization data for this area was available from previous site investigations.
SB221 - Southeast of Building 401. EU 13	SB221-413-2.0	09/10/2000 Phase 2	RAD	Investigate the gamma measurement found during the walkover survey. No characterization data for this area was available from previous site investigations.
SB-BH220 - Northwest of Building 401. EU 13	SB-BH220-20.0-3662	09/30/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the chemical and radiological compounds found in Trench 203.
SB-BH221A - Northwest of Building 401. EU 13	SB-BH221-15.0-3663	09/30/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the chemical and radiological compounds found in Trench 203.
SB-BH222 - Southwest of Building 401. EU 13	SB-BH222-6.0-3664	10/03/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	The purpose of this boring was investigate the possible tank cradles west of Building 401.
SB-BH224 - Southwest of Building 401. EU 13	SB-BH224-10.0-3666	10/04/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Delineate TCE and 1,2-DCE found in boring SB201 and to further characterize chemical constituents at the location.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB-BH225 - Southeast of Building 401. EU 13	SB-BH225-10.0-3667	10/03/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Delineate the total U found in trench 205 and to further characterize chemical constituents at the location.
SB-BH226 - Southeast of Building 401. EU 13	SB-BH226-12.0-3668	10/03/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Delineate the total U found in trench 205 and to further characterize chemical constituents at the location.
SB-CORE01 - Building 401. EU 13	SB-CORE01-0.5-3731	10/05/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence or absence of organic, inorganic and/or radiological compounds beneath building 401.
SB-CORE02 - Building 401. EU 13	SB-CORE02-0.5-3733	10/05/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence or absence of organic, inorganic and/or radiological compounds beneath building 401.
SB-CORE03 - Building 401. EU 13	SB-CORE03-1.5-3735	10/05/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence or absence of organic, inorganic and/or radiological compounds beneath building 401.
SB-CORE04 - Building 401. EU 13	SB-CORE04-0.5-3737	10/05/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence or absence of organic, inorganic and/or radiological compounds beneath building 401.
SB-CORE05 - Building 401. EU 13	SB-CORE05-0.5-3739	10/06/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence or absence of organic, inorganic and/or radiological compounds beneath building 401.
SB-CORE06 - Building 401. EU 13	SB-CORE06-0.5-3741	10/05/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence or absence of organic, inorganic and/or radiological compounds beneath building 401.
SB-CORE07 - Building 401. EU 13	SB-CORE07-0.5-3743	10/07/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence or absence of organic, inorganic and/or radiological compounds beneath building 401.
SB-CORE08 - Building 401. EU 13	SB-CORE08-0.5-3745	10/05/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence or absence of organic, inorganic and/or radiological compounds beneath building 401.
SB-CORE09 - Building 401. EU 13	SB-CORE09-0.5-3747	10/06/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence or absence of organic, inorganic and/or radiological compounds beneath building 401.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB-CORE10 - Building 401. EU 13	SB-CORE10-0.5-3749	10/05/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Investigate the presence or absence of organic, inorganic and/or radiological compounds beneath building 401.
SB-EU131 - East-central portion of EU 13.	SB-EU131-3408-2.0	07/09/2003 Phase 3	Metals	Investigate the presence and extent of inorganic compounds previously identified in the LOOW RI in the soil near this area.
SB-MW228 - South of Building 401 and SB2B006. EU 13	SB-MW228-11.0-3615	09/19/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH, Explosives	Samples collected from MW201A and MW203A indicated the presence of organic, inorganic and radiological parameters. This boring was installed and sampled to investigate the presence or absence of chemical and radiological parameters in the soil.
SB-MW229 - South of Building 401 and SB2B006. EU 13	SB-MW229-11.0-3614	09/18/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH, Explosives	Samples collected from MW201A and MW203A indicated the presence of chemical and radiological parameters. This boring was installed and sampled to investigate the presence or absence of chemical and radiological parameters in the soil.
SB-MW229 - South of Building 401 and SB2B006. EU 13	SB-MW229-28.5-3618	09/18/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH, Explosives	Samples collected from MW201A and MW203A indicated the presence of chemical and radiological parameters. This boring was installed and sampled to investigate the presence or absence of chemical and radiological parameters in the soil.
TB201 - West side of Building 401. EU 13	TB201-2800-05.0-036	05/22/2002 Phase 3	VOC SVOC Metals RAD	This trench was located to investigate a potential tank located adjacent to the west side of Building 401. A large vent was observed at the wall of the building and the vegetation over the top of the potential tank was stressed. The location of the trench examined a ferrous zone anomaly FZ540 that was reported in the geophysical investigation of the area.
TB201 - West side of Building 401. EU 13	TB201-2801-01.0-013	05/22/2002 Phase 3	VOC SVOC Metals RAD	This trench was located to investigate a potential tank located adjacent to the west side of Building 401. A large vent was observed at the wall of the building and the vegetation over the top of the potential tank was stressed. The location of the trench examined a ferrous zone anomaly FZ540 that was reported in the geophysical investigation of the area.
TB201 - West side of Building 401. EU 13	TB201-2802-01.0-001	05/22/2002 Phase 3	VOC SVOC Metals RAD	This trench was located to investigate a potential tank located adjacent to the west side of Building 401. A large vent was observed at the wall of the building and the vegetation over the top of the potential tank was stressed. The location of the trench examined a ferrous zone anomaly FZ540 that was reported in the geophysical investigation of the area.
TB201 - West side of Building 401. EU 13	TB201-2862-02.4-015	05/22/2002 Phase 3	RAD	This trench was located to investigate a potential tank located adjacent to the west side of Building 401. A large vent was observed at the wall of the building and the vegetation over the top of the potential tank was stressed. The location of the trench examined a ferrous zone anomaly FZ540 that was reported in the geophysical investigation of the area.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
TB202 - South side of Building 401. EU 13	TB202-2803-05.2-038	05/19/2002 Phase 3	SVOC, Metals, RAD, PEST, PCB	A storm sewer grated inlet was observed on the south side of Building 401. This trench was located to investigate that inlet, its associated piping, and the disturbed area to the south of the inlet. The location of the trench examined a ferrous zone anomaly FZ540 and metallic zone anomaly 549 that were reported in the geophysical investigation of the area.
TB202 - South side of Building 401. EU 13	TB202-2804-03.5-025	05/18/2002 Phase 3	SVOC, Metals, RAD, PEST, PCB	A storm sewer grated inlet was observed on the south side of Building 401. This trench was located to investigate that inlet, its associated piping, and the disturbed area to the south of the inlet. The location of the trench examined a ferrous zone anomaly FZ540 and metallic zone anomaly 549 that were reported in the geophysical investigation of the area.
TB202 - South side of Building 401. EU 13	TB202-2805-03.0-062	05/19/2002 Phase 3	VOC SVOC, Metals, RAD, PEST, PCB	A storm sewer grated inlet was observed on the south side of Building 401. This trench was located to investigate that inlet, its associated piping, and the disturbed area to the south of the inlet. The location of the trench examined a ferrous zone anomaly FZ540 and metallic zone anomaly 549 that were reported in the geophysical investigation of the area.
TB203 - North side of building 401. EU 13	TB203-2806-01.0-013	05/18/2002 Phase 3	VOC SVOC Metals RAD	This trench was located to investigate a potential tank located north of Building 401. The trench was placed along the west side of the concrete pad. Concentrations of organics and metals were found in the groundwater samples from this area. The location of the trench examined a ferrous zone anomaly FZ541 that was reported in the geophysical investigation of the area.
TB203 - North side of building 401. EU 13	TB203-2807-04.0-058	05/18/2002 Phase 3	VOC SVOC Metals RAD	This trench was located to investigate a potential tank located north of Building 401. Concentrations of organics and metals were found in the groundwater samples from this area. The location of the trench examined a ferrous zone anomaly FZ541 that was reported in the geophysical investigation of the area.
TB204 - Southeast of Building 401. EU 13	TB204-2916-08.0-030	05/31/2002 Phase 3	RAD	This trench was located to investigate a spoils pile located southeast of Building 401.
TB204 - Southeast of Building 401. EU 13	TB204-2917-10.0-035	05/31/2002 Phase 3	RAD	This trench was located to investigate a spoils pile located southeast of Building 401.
SB202 - Southwest corner of EU 14, south of Building 401.	SB202-086-10	11/22/1999 Phase 1	CEC, Explosives, PEST, PCB, RAD, SVOC, TOC, VOC, Metals	The purpose of the ring was to investigate the presence and extent of previously identified TCE in the soil in this area and investigate the presence or absence of chemical and/or radiological compounds in the soil associated with the former sludge bed south of Building 401 and associated USTs and solvent and paint storage buildings.
SB2B003 - Southeast of Building 401. EU 14	SB2B003-650-8.0	09/12/2000 Phase 2	SVOC, RAD	Investigate the extent of chemical and radiological concentrations found in Phase I.
SB2B006 – Northwest corner of EU 14, south of Building 401.	SB2B006-651-13.0	09/15/2000 Phase 2	VOC, RAD	Investigate the extent of the TCE and the uranium isotopes found in SB201.

Table 3-6
Summary of Subsurface Soil Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Analysis Parameters	Rationale for Sample Location and Analyses
SB2B0014 – Northwest corner of EU 14, south of Building 401.	SB2B014-2375 2.0	11/17/2001 Phase 3	RAD	Investigate the extent of radiological concentrations found in Phase I.
SB804 - Southeast quadrant of EU 14.	SB804-157-7.5	12/02/1999 Phase 1	VOC, SVOC, Metals, RAD, PEST, PCB, Explosives, TOC, CEC	Investigate the presence, absence and migration of chemical and radiological compounds in the soil near the southeastern NFSS boundary in an area that has not previously been investigated.
SB815 - Southern perimeter of EU 14.	SB815-732-11.0	09/10/2000 Phase 2	RAD	The purpose of the boring to further delineate the extent of radiological parameters found in SB201 and SB203.
SB816 - Southeast corner of NFSS. EU 14	SB816-733-12.0	08/25/2000 Phase 2	SVOC Metals RAD	Investigate the presence, absence and migration of chemical and radiological compounds in the soil near the southeastern NFSS boundary.
SB817 - Eastern perimeter of EU 14.	SB817-734-10.1	09/09/2000 Phase 2	RAD	Further delineate the extent of radiological parameters found in SB205.
SB818 - Southeast of Building 401. EU 14	SB818-735-10.5	09/12/2000 Phase 2	RAD	Further delineate the extent of the uranium isotopes found in SB203.
SB8B002 - Southeast corner of NFSS. EU 14	SB8B002-2432 2.0	11/17/2001 Phase 3	RAD	Investigate the extent of radiological concentrations found in Phase I.
SB-BH223 - Southwest of Building 401. EU 14	SB-BH223-3.0-3665	10/02/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Delineate TCE and 1,2-DCE found in boring SB201.
SB-BH227 - South of Building 401. EU 14	SB-BH227-15.0-3669	10/04/2003 Phase 3	VOC, SVOC, Metals, RAD, Pest, PCB, PAH	Delineate total U in trench 205.
TB204 - Southeast of Building 401. EU 14	TB204-2918-07.0-070	05/31/2002 Phase 3	RAD	This trench was located to investigate a spoils pile located southeast of Building 401.
TB205 - South side of Building 401. EU 14	TB205-2919-03.0-055	05/31/2002 Phase 3	VOC SVOC, Metals, RAD, PEST, PCB	This trench was located to further investigate the 'pesticide' odor noted in trench T202
TB205 - South side of Building 401. EU 14	TB205-2920-06.5-060	05/31/2002 Phase 3	VOC SVOC, Metals, RAD, PEST, PCB	This trench was located to further investigate the 'pesticide' odor noted in trench T202
TB205 - South side of Building 401. EU 14	TB205-2921-08.0-001	05/31/2002 Phase 3	VOC SVOC, Metals, RAD, PEST, PCB	This trench was located to further investigate the 'pesticide' odor noted in trench T202

Table 3-7
Summary of Subsurface Soil Samples Collected and Analyses Performed
LOOW Remedial Investigation

Sample Location (Station ID and EU)	Sample ID	Collection Date	Analyses
C5-VS-B300 EU1	C5-VS-SO-B300-1	7/13/1998	General Chemistry,
C5-VS-D300 EU1	C5-VS-SO-D300-14	7/13/1998	General Chemistry,
C5-AC-F200 EU2	C5-AC-SO-F200-1	7/13/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C5-AC-BP3 EU3	C5-AC-SO-BP3-14	7/13/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C7-NFSS-PIPE1 EU4	C7-NFSS-SO-PIPE1	7/13/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C7-NFSS-PIPE2 EU4	C7-NFSS-SO-PIPE2	7/13/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C5-SO-D200 EU8	C5-SO-SO-D200-8	7/13/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C5-SO-D800 EU8	C5-SO-SO-D800-1	7/13/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C5-SO-D800 EU8	C5-SO-SO-D800-10	7/13/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs

Table 3-8
Summary of Background Subsurface Soil Samples and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Alias ID	Date Collected	Sample Depth (Feet)	Rationale for Sample Location and Analysis*
B001 - Located on private property north of Pletcher Rd at 435 Guard St, approximately 1,400 feet west of the NFSS.	SBBW001-824	BKGD-SO-3-11.5	10/05/00	11.0-11.5	Prior to construction of the LOOW, this location was unoccupied forested land. During operation of the LOOW, this area was part of the LOOW buffer zone. Currently, the land is not actively used and is private property.
B002- Located on a private roadway just north of Pletcher Road (435 Guard St), approximately 1,800 feet southwest of the southwest corner of the NFSS.	SBBW002-825	BKGD-SO-4-10.5	10/05/00	10.0-10.5	Prior to construction of the LOOW, this sampling location was an orchard. During operation of the LOOW, this area was part of the LOOW buffer zone. Currently, the land is not actively used and is private property.
B003 – Located in an open area adjacent to the Lewiston-Porter school complex at 4061 Creek Rd, approximately 5,500 feet west of the NFSS.	SBBW003-826-9.5	BKGD-SO-5-9.5	10/05/00	9.0-9.5	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, this area was part of the LOOW buffer zone. This sampling location is now open land that belongs to the Lewiston-Porter School System. The school complex is located in a residential area.
B004 – Located on residential property at 4403 Creek Rd, approximately 8,700 feet southwest of the southwest corner of the NFSS.	SBBW004-828	BKGD-SO-6-12	10/05/00	11.5-12.0	Prior to construction of the LOOW, this sampling location was open unused land or part of a highway. During operation of the LOOW, this area was part of the LOOW buffer zone. Currently the property is part of a residential area.
B005 – Located in the north-central portion of the National Guard training area, 1551 Balmer Rd, approximately 7,400 feet northeast of the northeast corner of the NFSS.	SBBW005-829	BKGD-SO-7-6	11/09/00	5.5-6.0	Prior to construction of the LOOW, this sampling location was farmland and orchard. During operation of the LOOW, this area was part of the LOOW TNT magazine storage area. The area is currently part of the National Guard weekend area.
B006 – Located in the east-central quadrant of the National Guard training area, 1551 Balmer Rd, approximately 6,000 feet northeast of the northeast corner of the NFSS.	SBBW006-830-6	BKGD-SO-8-6	11/09/00	5.5-6.0	Prior to construction of the LOOW, this sampling location was farmland and orchard. During operation of the LOOW, this area was part of the LOOW TNT magazine storage area. The area is currently part of the National Guard training area.
B007 - Located on CWM property at 1550 Balmer Rd in the eastern portion of the facility near Porter Center Rd, approximately 4,100 feet east-northeast of the northeast corner of the NFSS.	SBBW007-831	BKGD-SO-9-20	11/09/00	19.5-20.0	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, this area was part of the LOOW buffer zone. This location is currently a part of the CWM.

Table 3-8
Summary of Background Subsurface Soil Samples and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Alias ID	Date Collected	Sample Depth (Feet)	Rationale for Sample Location and Analysis*
B008 – Located on the western end of a farm at 4452 Porter Center Rd, approximately 10,400 feet northeast of the northeast corner of the NFSS.	SBBW008-832	BKGD-SO-10-20	11/09/00	19.5-20.0	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, the area was part of the LOOW buffer zone. Current land use is once again agricultural (farm).
B009 – On Modern property 47, near the intersection of the southeastern boundary of CWM and the northeastern boundary of Modern, approximately 5,800 feet east-southeast of the northeast corner of the NFSS.	SBBW009-833-12	BKGD-SO-11-12	11/09/00	11.5-12.0	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, this area was part of the LOOW buffer zone. The property is currently a part of Modern landfill.
B010 – Located on property belonging to the 3F Gun Club at 1166 Swann Rd, approximately 7,900 feet south-southwest of the NFSS.	SBBW010-834	BKGD-SO-12-11.5	11/10/00	11.0-11.5	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, this area was part of the LOOW buffer zone. The property is now a gun club. The surrounding area is residential.
B011 – Located south of the 3F gun club in a grassy area near a pond, approximately 9,500 feet south-southwest of the NFSS.	SBBW011-835-7	BKGD-SO-13-7	11/10/00	6.5-7.0	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, the area was part of the LOOW buffer zone. Current land use is once again agricultural (farm).
B012 – Located on forested property at 1074 Cain Rd., approximately 9,100 feet northwest of the northwest corner of the NFSS.	SBBW012-836-14	BKGD-SO-14-14	11/10/00	13.5-14.0	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, this area was part of the LOOW buffer zone. Currently, the property is a privately owned forested area.
B013 – Collected from the front lawn of a private residence located at 338 Howard Drive, approximately 16,000 feet west-northwest of the NFSS.	SBBW013-837-17	BKGD-SO-15-17	11/10/00	16.5-17.0	This area has always been a residential area.
B014 – Collected behind the softball field of the Lewiston-Porter school complex located at 4061 Creek Rd, approximately 6,100 feet west of the NFSS.	SBBW014-838-16	BKGD-SO-16-16	11/11/00	15.5-16.0	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, this area was a part of the LOOW buffer zone. The land is now part of Lewiston-Porter the school complex and is surrounded by a residential area.
B015 – Located in the northern portion of the Lewiston-Porter school complex located at 4061 Creek Rd, approximately 7,000 feet west of the NFSS.	SBBW015-839-20	BKGD-SO-17-20	11/11/00	19.5-20.0	Prior to construction of the LOOW, this sampling location was farmland. During operation of the LOOW, this area was a part of the LOOW buffer zone. The land is now part of the Lewiston-Porter school complex and is surrounded by a residential area.

Table 3-8
Summary of Background Subsurface Soil Samples and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Alias ID	Date Collected	Sample Depth (Feet)	Rationale for Sample Location and Analysis*
SBBK1-14 - Located north of Pletcher Road and slightly east of SW18 Creek Road. About one mile west of NFSS.	SBBK1-14	BKGD-1-12-14	7/13/98	13.5-14.0	Collected during Phase I LOOW RI to obtain data representing the general area of the LOOW that was not impacted by site-specific operations.
SBBK2-14 – Located north of Balmer Road about two miles north of NFSS.	SBBK2-14	BKGD-2-14	7/14/98	13.5-14.0	Collected during Phase I LOOW RI to obtain data representing the general area of the LOOW that was not impacted by site-specific operations.
SBBK2-2 – Located north of Balmer Road about two miles north of NFSS.	SBBK2-2	BKGD-2-2	7/14/98	1.0-2.0	Collected during Phase I LOOW RI to obtain data representing the general area of the LOOW that was not impacted by site-specific operations.

Radiological Parameters included: gross alpha, gross beta, total uranium and the following isotopes: actinium-227, americium-241, cesium-137, cobalt-60, potassium-40, protactinium-231, radium-226, radium-228, thorium-228, thorium-230, thorium-232, uranium-233/234, uranium-235/236 uranium-238, and total uranium.

* These samples were collected to characterize background conditions. Sample locations were selected because they are outside the zone of impacted soil associated with activities at the NFSS and LOOW. For each sample, analytical parameters included: radiological parameters, SVOCs, PAHs, metals and total organic carbon. Parameters were selected to detect a wide range of compounds.

Table 3-9
Summary of Surface Water Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	Analysis Parameters*	Rationale for Sample Location and Analysis
EU 1				
SW712 – In the West Ditch at its confluence with the West Patrol Road Ditch.	SW712-318	11/04/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the Baker Smith Area where radiological residues were stored. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary and the Baker Smith Area. The analytical parameters were selected to detect a wide range of compounds.
SW713 - In the West Ditch adjacent and just south of the northern property line.	SW713-323	11/08/99	Radiological Parameters VOCs SVOCs PAHs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the Baker Smith Area where radiological residues were stored. The runoff at this location exits the site and flows north. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary. The analytical parameters were selected to detect a wide range of compounds.
SW714 – In the West Patrol Road Ditch, upstream of SW/SD712 and downstream of the former storehouse (Building 444) and pipe shop (Building 445).	SW714-325	11/03/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the Baker Smith Area where radiological residues were stored. This sampling location was selected to investigate the presence or absence of site-related constituents downstream of Buildings 444 and 445. The analytical parameters were selected to detect a wide range of compounds.
EU 4				
SW740 - In a ditch/depression containing ponded water located adjacent to SUMP25 in the TNT mixed acid storage area.	SW740-390	11/03/99	Metals	This location is adjacent to the mixed acid storage area and the associated sumps and piping. Metals may have leached from the tanks and soil due to the storage of acids in the area. The sample was collected to investigate the presence or absence of site-related constituents in the ponded water. The analytical parameters were selected based on the historical activities in the area.
EU 5				
SW726 - In a low-lying area containing ponded water, north of O Street, at the west end of the depression.	SW726-354	11/05/99	Radiological Parameters VOCs SVOCs Metals	This location receives runoff from the Acidification Area and roads formerly used to haul radiological wastes. This area also receives runoff from the former “thaw house” where drums of residue were offloaded from rail cars. This sampling location was selected to investigate the presence or absence of site-related constituents in the low-lying ponded area. The analytical parameters were selected to detect a wide range of compounds.

Table 3-9
Summary of Surface Water Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	Analysis Parameters*	Rationale for Sample Location and Analysis
EU 5 (Continued)				
SW727 - In a low-lying area containing ponded water, north of O Street and east of SD/SW726.	SW727-356	11/05/99	Radiological Parameters Pesticides and PCBs	This location receives runoff from the Acidification Area and roads formerly used to haul radiological wastes. This area also receives runoff from the former "thaw house" where drums of residue were offloaded from rail cars. This sampling location was selected to investigate the presence or absence of site-related constituents in the low-lying ponded area. The analytical parameters were selected based on historical activities.
SW728 - In a low-lying area containing ponded water, north of O Street and east of SD/SW727, in the central portion of the depression.	SW728-358	11/05/99	Radiological Parameters SVOCs Metals	This location receives runoff from the Acidification Area and roads formerly used to haul radiological wastes. This area also receives runoff from the former "thaw house" where drums of residue were offloaded from rail cars. This sampling location was selected to investigate the presence or absence of site-related constituents in the low-lying ponded area. The analytical parameters were selected based on historical activities.
SW729 - In a low-lying area containing ponded water, north of O Street and east of SD/SW728, in the eastern half of the depression, southwest of the former water tower.	SW729-363	11/05/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the former water tower (stored K-65 waste) and roads formerly used to haul radiological wastes. This area also receives runoff from the former "thaw house" where drums of residue were offloaded from rail cars. This sampling location was selected to investigate the presence or absence of site-related constituents in the low-lying ponded area. The analytical parameters were selected to detect a wide range of compounds.
SW730 - In a low-lying area containing ponded water, north of O Street and east of SW729, at the eastern end of the depression, southwest of the former water tower.	SW730-365	11/05/99	Radiological Parameters SVOCs	This location receives runoff from roads formerly used to haul radiological wastes and the former water tower (stored K-65 wastes) and "thaw house". This sampling location was selected to investigate the presence or absence of site-related constituents in the low-lying ponded area. The analytical parameters were selected based on historical activities.
SW735 - In the CWM Ditch adjacent and just south of the northern property line, north of N St., and on the dividing line between EUs 5 and 6.	SW735-376	11/04/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary. The analytical parameters were selected to detect a wide range of compounds.

Table 3-9
Summary of Surface Water Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	Analysis Parameters*	Rationale for Sample Location and Analysis
EU 5 (Continued)				
SW736 - In the N Street North Ditch at its confluence of the CWM Ditch, north of N St. and on the dividing line between EUs 5 and 6.	SW736-378	11/04/99	Radiological Parameters SVOCs Metals	This location receives runoff from the adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents in this ditch approximately 300 feet south of the property boundary. The analytical parameters were selected based on historical activities.
SW737 - In the N Street North Ditch, north of N St. and the Acidification Area and west of well BH51.	SW737-380	11/04/99	Radiological Parameters SVOCs Pesticides and PCBs Metals	This location receives runoff from the Panhandle Area. The LOOW RI identified the presence of organic and inorganic compounds above their evaluation criteria in the soil and groundwater southwest of this location. This sampling location was selected to investigate the presence or absence of site-related constituents in this ditch. The analytical parameters were selected based on historical activities and historical analytical data.
SW738 - In a low-lying area containing ponded water, south of N Street and west of the CWM Ditch, in the eastern half of the depression.	SW738-382	11/04/99	Radiological Parameters SVOCs Metals	This location receives runoff from the Panhandle Area. This sampling location was selected to investigate the presence or absence of site-related constituents in the low-lying ponded area. The analytical parameters were selected based on historical activities.
SW739 - In a low-lying area containing ponded water, south of N Street and west of the CWM Ditch and SD/SW738, in the western half of the depression.	SW739-384	11/04/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the Panhandle Area. This sampling location was selected to investigate the presence or absence of site-related constituents in the low-lying ponded area. The analytical parameters were selected to detect a wide range of compounds and were chosen provide a representative database.
EU 6				
SW731- In the MacArthur Street West Ditch, at its confluence with the O Street North Ditch.	SW731-367	11/03/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from former haul roads and the former water tower used to store K65 wastes and “thaw house”. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditch. The analytical parameters were selected to detect a wide range of compounds and provide a representative database.

Table 3-9
Summary of Surface Water Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	Analysis Parameters*	Rationale for Sample Location and Analysis
EU 6 (Continued)				
SW732 - In the MacArthur Street West Ditch, west of MacArthur Street, at its confluence with the O Street North Ditch.	SW732-369	11/03/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from roads formerly used to haul radiological wastes and from the adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary. The analytical parameters were selected to detect a wide range of compounds.
SW733 - In the MacArthur Street West Ditch, at the northeast corner of the NFSS property.	SW733-371	11/02/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary. The analytical parameters were selected to detect a wide range of compounds.
SW734 – In a low-lying area containing ponded water, along the northern property boundary, east of the CWM Ditch.	SW734-374	11/03/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This low-lying area is at the perimeter of the site. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary. The analytical parameters were selected to detect a wide range of compounds.
EU 7				
SW711 - In the O St. South Ditch, approximately 25 feet east of the intersection of O St. and Lutts Rd.	SW711-316	11/04/99	Radiological Parameters Metals	This location receives runoff from the organic burial area and the former IWCS stormwater pond 3 and flows into the Lutts Rd. East Ditch. This sampling location was selected to investigate the presence or absence of site-related constituents near the organic disposal area. The analytical parameters were selected based on historical activities in the area.
SW744 - In the O St. South Ditch, approximately at the intersection of O St. and Lutts Rd. and the confluence of the O. St. South Ditch and the Lutts Rd East Ditch	SW744-681	5/21/01	Radiological Parameters[1]	This location receives runoff from the former IWCS stormwater pond 3 and organic burial area. This sampling location was selected to investigate the presence or absence of site-related constituents at the confluence of the two ditches. The analytical parameters were selected based on historical activities in the area.

Table 3-9
Summary of Surface Water Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	Analysis Parameters*	Rationale for Sample Location and Analysis
EU 8				
SW723 – In the Castle Garden Rd West Ditch, and southeast of the former combined shop building (uranium billet storage)	SW723-348	11/05/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the western side of the Shop Area. In the LOOW RI, organic and inorganic compounds were identified above their evaluation criteria near this area. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches associated with the Shop Area. The analytical parameters were selected to detect a wide range of compounds.
SW724 – In the O Street South Ditch immediately east of Campbell Street, near the intersection of O St. and Campbell St.	SW724-350	11/05/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the former haul roads for radiological residues and from the combined shop building where uranium billets were stored. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches associated with the Shop Area. The analytical parameters were selected to detect a wide range of compounds.
SW725 – In the O Street South Ditch, adjacent and west of Sixth Street and north of the combined shop building.	SW725-352	11/05/99	Radiological Parameters SVOCs Metals	This location receives runoff from the former haul roads for radiological residues and the combined shop building where uranium billets were stored. In the LOOW RI, organic and inorganic compounds were identified above their evaluation criteria near this area. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches associated with the Shop Area. The analytical parameters were selected based on historical activities and analytical results.
EU 10				
SW701 – In the central-northwest lWCS lateral ditch, east of the West Drainage Ditch, adjacent to the NFSS western perimeter fence and north of well cluster OW15.	SW701-292	11/04/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the IWCS, the southwestern quadrant of the site and off-site adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches associated with the IWCS and the southwestern quadrant of the site. The analytical parameters were selected to detect a wide range of compounds.
SW702 – In the central-southwest IWCS lateral ditch, east of the West Drainage Ditch, adjacent to the NFSS western perimeter fence and north of well cluster OW17.	SW702-294	11/04/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the IWCS, the southwestern quadrant of the site and off-site adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches associated with the IWCS and the southwestern quadrant of the site. The analytical parameters were selected to detect a wide range of compounds.

Table 3-9
Summary of Surface Water Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	Analysis Parameters*	Rationale for Sample Location and Analysis
EU 10 (Continued)				
SW703 – In the southwest IWCS ditch, east of the West Drainage Ditch, adjacent to the NFSS western perimeter fence, west of the southwest corner of the IWCS and north of well cluster OW18.	SW703-296	11/0499	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the IWCS, the southwestern quadrant of the site and off-site adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches associated with the IWCS and the southwestern quadrant of the site. The analytical parameters were selected to detect a wide range of compounds.
SW741 – Outside the fenced perimeter of the IWCS, in the IWCS southwest lateral ditch, south of TWP856 and upstream of SW/SD 703.	SW741-678	5/21/01	Radiological Parameters[1]	This location receives runoff from the IWCS. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches located near the IWCS that were remediated or partially remediated by DOE. The analytical parameters were selected based on historical activities and analytical results.
EU 11				
SW704 – In the Central Ditch adjacent to R St., just north of the southern NFSS property boundary and southeast of the IWCS.	SW704-301	11/04/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the former DOE stockpile area and adjacent properties located south of the NFSS. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary. The analytical parameters were selected to detect a wide range of compounds.
EU12				
SW719 – In a low-lying area containing ponded water, south of South 16 Ditch, west of Castle Garden Rd and northeast of Building 401.	SW719-339	11/05/99	Radiological Parameters SVOCs	This location receives runoff from Building 401 and surrounding area. This sampling location was selected to investigate the presence or absence of site-related constituents in an area downstream of the Building 401 area. The analytical parameters were selected based on historical activities in the area.
EU 15				
SW705 – Within the fenced perimeter of the IWCS, in the South 31 Ditch, approximately 20 feet east of its confluence with the Central Ditch.	SW705-303	11/04/99	Radiological Parameters SVOCs Metals	This location receives runoff from Building 401, the former IWCS stormwater ponds and the decontamination pad. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches near the IWCS downstream of Building 401 and the former IWCS stormwater ponds. The analytical parameters were selected based on historical activities in this area.

Table 3-9
Summary of Surface Water Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	Analysis Parameters*	Rationale for Sample Location and Analysis
EU 15 (Continued)				
SW706 – Within the fenced perimeter of the IWCS, in the Central Ditch, east of well A50.	SW706-305	11/04/99	Radiological Parameters VOCs Pesticides and PCBs Metals	This location receives runoff from the IWCS and the former IWCS stormwater ponds. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches located near the IWCS that were remediated or partially remediated by DOE. The analytical parameters were selected based on historical activities and analytical results.
SW707 – Within the fenced perimeter of the IWCS, in the Central Ditch, south of its confluence with South 16 Ditch.	SW707-307	11/04/99	Radiological Parameters SVOCs Metals	This location receives runoff from the IWCS and the former IWCS stormwater ponds. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches located near the IWCS that were remediated or partially remediated by DOE. The analytical parameters were selected based on historical activities and analytical results.
SW708 - In the Central Ditch, 200 feet south of O Street South Ditch, downstream of the IWCS, the former IWCS stormwater ponds.	SW708-309	11/04/99	Radiological Parameters VOCs Metals	This location was sampled to characterize this portion of the Central Ditch and investigate the presence or absence of organic and inorganic compounds in the ditch downstream of the IWCS and former IWCS stormwater ponds. The analytical parameters were selected based on historical activities and analytical results.
SW709 – In the Central Ditch, downstream of its confluence with the O Street South Ditch, north of O St and downstream of the IWCS and the former IWCS stormwater ponds.	SW709-312	11/04/99	Radiological Parameters SVOCs PAHs Pesticides and PCBs Metals	This location was sampled to characterize this portion of the Central Ditch and investigate the presence or absence of organic and inorganic compounds in the ditch downstream of the IWCS and former IWCS stormwater ponds. The analytical parameters were selected to detect a wide range of compounds based on historical use and analytical results.
SW710 - In the Central Ditch adjacent and just south of the northern property line and north of N St.	SW710-314	11/04/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the IWCS and the former IWCS stormwater ponds. The runoff at this location exits the site and flows north. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary. The analytical parameters were selected to detect a wide range of compounds.
SW715 – In the Modern Landfill Ditch at its confluence with the R St. North Ditch, adjacent to R St., just north of the southern NFSS property boundary and southeast of Building 401	SW715-327	11/05/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from Modern Landfill located south of the NFSS. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary. The analytical parameters were selected to detect a wide range of compounds.

Table 3-9
Summary of Surface Water Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	Analysis Parameters*	Rationale for Sample Location and Analysis
EU 15 (Continued)				
SW716 – In the South 31 Ditch, east of Campbell St. and downstream of Building 401.	SW716-329	11/05/99	Radiological Parameters VOCs Pesticides and PCBs Metals	This location receives runoff from Building 401. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches downstream of Building 401. The analytical parameters were selected detect a wide range of compounds.
SW717 – In the Modern Landfill Ditch at its confluence with the South 31 Ditch, east of Campbell St and South of Building 401.	SW717-332	11/05/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the southeastern quadrant of the NFSS and Building 401. This sampling location was selected to investigate the presence or absence of site-related constituents in an area downstream of Building 401. The analytical parameters were selected to detect a wide range of compounds.
SW718 – In the Castle Garden East Ditch, east and adjacent to its confluence with the South 31 Ditch, north of TWP817, and adjacent to the eastern NFSS boundary.	SW718-334	11/05/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from the eastern edge of the NFSS and Modern Landfill located to the east. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary. The analytical parameters were selected to detect a wide range of compounds.
SW720 – In the South 16 Ditch, east of Campbell St, south of the former Shop Area and north of Building 401	SW720-342	11/05/99	Radiological Parameters SVOCs Pesticides and PCBs Metals	This location receives runoff from Building 401 and the southern Shop Area. This sampling location was selected to investigate the presence or absence of site-related constituents in the South 16 Ditch. The analytical parameters were selected detect a wide range of compounds.
SW721 – In the South 16 Ditch, between Campbell St and Castle Garden Rd, south of the former Shop Area and northeast of Building 401.	SW721-344	11/05/99	Radiological Parameters SVOCs Metals	This location receives runoff from Building 401 and the southern Shop Area. This sampling location was selected to investigate the presence or absence of site-related constituents in the South 16 Ditch. The analytical parameters were selected detect a wide range of compounds.
SW722 – In the Castle Garden East Ditch, approximately 50 feet north of its confluence with the South 16 Ditch, near Building 421 and the former K-65 drum storage area and adjacent to the eastern NFSS boundary	SW722-346	11/05/99	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	This location receives runoff from Modern Landfill and the western side of the Shop Area. In the LOOW RI, organic and inorganic compounds were identified above their evaluation criteria near this area. This sampling location was selected to investigate the presence or absence of site-related constituents in the Castle Garden East Ditch. The analytical parameters were selected to detect a wide range of compounds.

* Parameters include the Target Analyte and Target Compound Lists shown in Section 2.5. Filtered and unfiltered samples for metals analyses were collected except where noted. Radiological Parameters included gross alpha, gross beta, total uranium and the following isotopes: radium-226, thorium-228, thorium-230, thorium-232, uranium-233/234, uranium-235/236, uranium-238, and total uranium. Additional isotopes added to some samples are listed in footnote 1.

1. An unfiltered sample was collected for the isotopes listed above plus the following isotopes: actinium-227, americium-241, cesium-137, cobalt-60, protactinium-231, radium-228 and uranium-235.

Table 3-10
Summary of Surface Water Samples Collected and Analyses Performed
LOOW Remedial Investigation

Sample Location (Station ID and EU)		Sample ID	Collection Date	Analyses
C9-4-1	EU10	C9-4-SW-1	7/21/1998	General Chemistry, Exposives, Metals
C9-4-2	EU10	C9-4-SW-2	7/21/1998	General Chemistry, Exposives, Metals
C7-NFSS-ST9	EU2	C7-NFSS-WW-ST9	7/7/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C7-NFSS-ST6	EU4	C7-NFSS-WW-ST6	7/7/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C9-4-3	EU7	C9-4-SW-3	7/21/1998	General Chemistry, Exposives, Metals
C7-NFSS-SS10	EU8	C7-NFSS-WW-SS10	7/6/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C7-NFSS-SS8	EU8	C7-NFSS-WW-SS8	6/30/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C7-NFSS-SS9	EU8	C7-NFSS-WW-SS9	7/6/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs

Note: Rationale for parameter selection was to test for LOOW marker compounds.

Table 3-11
Summary of Background Surface Water Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	Analysis Parameters*	Rationale for Sample Location and Analysis
SWBKG-01 – Located in the West Ditch outside and 75 feet south of the southwest corner of the NFSS perimeter fence	SWBKG-01-3202	3/09/03	Radiological Parameters VOCs SVOCs PAHs Pesticides and PCBs Metals Nitroaromatics	The purpose of this sample is to characterize background conditions. This collocated surface water and sediment sampling location is located off-site and outside the zone of impacted surface water associated with the NFSS. The analytical parameters were selected to detect a wide range of compounds.
SWBKG-02 – Located in the Central Ditch just within the fenced NFSS southern perimeter as the ditch enters the site.	SWBKG-01-3200	3/08/03	Radiological Parameters VOCs SVOCs PAHs Pesticides and PCBs Metals Nitroaromatics	The purpose of this sample is to characterize background conditions. This collocated surface water and sediment sampling location is located just within the NFSS perimeter and outside the zone of impacted surface water associated with the NFSS. The analytical parameters were selected to detect a wide range of compounds.
SWBKG-03 – Located in the northwest corner of the NFSS in the ditch that originates on property owned by the town of Lewiston. This sample was collected just inside the northern perimeter fence where the ditch enters the site.	SWBKG-01-3204	3/15/03	Radiological Parameters VOCs SVOCs PAHs Pesticides and PCBs Metals Nitroaromatics	The purpose of this sample is to characterize background conditions. This collocated surface water and sediment sampling location is located just within the NFSS perimeter and outside the zone of impacted surface water associated with the NFSS. The analytical parameters were selected to detect a wide range of compounds.
SWBKG-04 – Located along the northern perimeter of EU 2 in a ditch that originates on property belonging to CWM. This sample was collected just inside the northern perimeter fence where the ditch enters the site.	SWBKG-01-3206	3/17/03	Radiological Parameters VOCs SVOCs PAHs Pesticides and PCBs Metals Nitroaromatics	The purpose of this sample is to characterize background conditions. This collocated surface water and sediment sampling location is located just within the NFSS perimeter and outside the zone of impacted surface water associated with the NFSS. The analytical parameters were selected to detect a wide range of compounds.
SWBKG-05 - Located along the northern perimeter fence and the line separating EUs 4 and 5 in a ditch that originates on property belonging to CWM. This sample was collected just inside the northern perimeter fence where the ditch enters the site.	SWBKG-01-3208	3/18/03	Radiological Parameters VOCs SVOCs PAHs Pesticides and PCBs Metals Nitroaromatics	The purpose of this sample is to characterize background conditions. This collocated surface water and sediment sampling location is located just within the NFSS perimeter and outside the zone of impacted surface water associated with the NFSS. The analytical parameters were selected to detect a wide range of compounds.
SWBKG-06 - Located along the northern perimeter fence and the line separating EUs 5 and 6 in a ditch that originates on property belonging to CWM. This sample was collected just inside the northern perimeter fence where the ditch enters the site.	SWBKG-01-3210	3/19/03	Radiological Parameters VOCs SVOCs PAHs Pesticides and PCBs Metals Nitroaromatics	The purpose of this sample is to characterize background conditions. This collocated surface water and sediment sampling location is located just within the NFSS perimeter and outside the zone of impacted surface water associated with the NFSS. The analytical parameters were selected to detect a wide range of compounds.

Table 3-11
Summary of Background Surface Water Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	Analysis Parameters*	Rationale for Sample Location and Analysis
SWBKG-07 – Located along the eastern perimeter fence at the intersection of O St. and Castle Garden Road in a ditch that originated on property belonging to Modern Landfill. This sample was collected just inside the eastern perimeter fence where the ditch enters the site.	SWBKG-01-3212	3/14/03	Radiological Parameters VOCs SVOCs PAHs Pesticides and PCBs Metals Nitroaromatics	The purpose of this sample is to characterize background conditions. This collocated surface water and sediment sampling location is located just within the NFSS perimeter and outside the zone of impacted surface water associated with the NFSS. The analytical parameters were selected to detect a wide range of compounds.
SWBKG-08 - Located along the eastern perimeter fence, east of Castle Garden Rd, north of the intersection of the Eastern Ditch and South 16 Ditch in a ditch that originated on property belonging to Modern Landfill. This sample was collected just inside the eastern perimeter fence where the ditch enters the site.	SWBKG-01-3214	3/08/03	Radiological Parameters VOCs SVOCs PAHs Pesticides and PCBs Metals Nitroaromatics	The purpose of this sample is to characterize background conditions. This collocated surface water and sediment sampling location is located just within the NFSS perimeter and outside the zone of impacted surface water associated with the NFSS. The analytical parameters were selected to detect a wide range of compounds.
SWBKG-09 - Located along the eastern perimeter fence, east of Castle Garden Rd, 100 ft north of the intersection of the Eastern Ditch and South 31 Ditch in a ditch that originated on property belonging to Modern Landfill. This sample was collected just inside the eastern perimeter fence where the ditch enters the site.	SWBKG-01-3216	3/20/03	Radiological Parameters VOCs SVOCs PAHs Pesticides and PCBs Metals Nitroaromatics	The purpose of this sample is to characterize background conditions. This collocated surface water and sediment sampling location is located just within the NFSS perimeter and outside the zone of impacted surface water associated with the NFSS. The analytical parameters were selected to detect a wide range of compounds.
SWBKG-10 - Located along the southern perimeter fence, 175 ft east of Campbell St, south of the intersection of a southern ditch with the ditch that originated on property belonging to Modern Landfill. This sample was collected just inside the eastern perimeter fence where the ditch enters the site.	SWBKG-01-3218	3/09/03	Radiological Parameters VOCs SVOCs PAHs Pesticides and PCBs Metals Nitroaromatics	The purpose of this sample is to characterize background conditions. This collocated surface water and sediment sampling location is located just within the NFSS perimeter and outside the zone of impacted surface water associated with the NFSS. The analytical parameters were selected to detect a wide range of compounds.

* Parameters include the Target Analyte and Target Compound Lists shown in Section 2.5. Filtered and unfiltered samples for metals and radionuclide analyses were collected except where noted.
CWM = Chemical Waste Management, Inc.
ID = Identification number

Radiological Parameters included a filtered and unfiltered sample for: gross alpha, gross beta, total uranium and the following isotopes: actinium-227, americium-241, cesium-137, cobalt-60, protactinium-231, radium-226, radium-228, thorium-228, thorium-230, thorium-232, uranium-233/234, uranium 235, uranium-235/236, uranium-238, and total uranium.

Table 3-12
Summary of Sediment Samples Collected and Analyses Preformed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID*	Date Collected	Analysis Parameters**	Rationale for Sample Location and Analysis
EU 1				
SD712 – In the West Ditch at its confluence with the West Patrol Road Ditch.	SD712-319	12/01/99	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals	This location receives runoff from the Baker Smith Area where radiological residues were stored. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary and the Baker Smith Area. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD713 - In the West Ditch adjacent and just south of the northern property line.	SD713-324	12/01/99	Radiological Parameters VOCs, SVOCs Pesticides and PCBs, Metals	This location receives runoff from the Baker Smith Area where radiological residues were stored. The runoff at this location exits the site and flows north. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD714 – In the West Patrol Road Ditch, upstream of SW/SD712 and downstream of the former storehouse (Building 444) and welding shop (Building 445).	SD714-326	12/01/99	Radiological Parameters VOCs, SVOCs Pesticides and PCBs, Metals	This location receives runoff from the Baker Smith Area where radiological residues were stored. This sampling location was selected to investigate the presence or absence of site-related constituents downstream of Buildings 444 and 445. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD747 - In the West Ditch, at its confluence with an eastern lateral ditch, downstream of the IWCS and SW/SD712, and southeast of former Buildings 443 (welding shop), 444 (storehouse) and 445 (pipe shop).	SD747-2152 SD747-2253	9/09/01	Radiological Parameters[1]	Samples collected at the location of a surface gamma reading of 35,800 cpm. Sample SD 747-225 was collected from a depth interval of 1' – 1.5' to vertically characterize this location. For purposes of risk modeling, this location is considered to be representative of soil conditions.
EU 5				
SD726 - In a low-lying area containing ponded water, north of O Street, at the west end of the depression.	SD726-355	12/03/99	Radiological Parameters VOCs, SVOCs, Metals	This location receives runoff from the Acid Area and roads formerly used to haul radiological wastes. This area also receives runoff from the former "thaw house" where drums of residue were offloaded from rail cars. This sampling location was selected to investigate the presence or absence of site-related constituents in the low-lying ponded area.
SD727 - In a low-lying area containing ponded water, north of O Street and east of SW/SD726.	SD727-357	12/04/99	Radiological Parameters Pesticides and PCBs	This location receives runoff from the Acid Area and roads formerly used to haul radiological wastes. This area also receives runoff from the former "thaw house" where drums of residue were offloaded from rail cars. This sampling location was selected to investigate the presence or absence of site-related constituents in the low-lying ponded area.

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Summary of Sediment Samples Collected and Analyses Preformed
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Sample Location	Sample ID*	Date Collected	Analysis Parameters**	Rationale for Sample Location and Analysis
EU 5 (Continued)				
SD728 - In a low-lying area containing ponded water, north of O Street and east of SW/SD727, in the central portion of the depression.	SD728-359	12/04/99	Radiological Parameters SVOCs, Metals	This location receives runoff from Acid Area and roads formerly used to haul radiological wastes. This area also receives runoff from the former "thaw house" where drums of residue were offloaded from rail cars. This sampling location was selected to investigate the presence or absence of site-related constituents in the low-lying ponded area.
SD729 - In a low-lying area containing ponded water, north of O Street and east of SW/SD728, in the eastern half of the depression and southwest of former Building 434.	SD729-364	12/04/99	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals	This location receives runoff from former Building 434 (stored K-65 waste) and roads formerly used to haul radiological wastes. This area also receives runoff from the former "thaw house" where drums of residue were offloaded from rail cars. This sampling location was selected to investigate the presence or absence of site-related constituents in the low-lying ponded area.
SD730 - In a low-lying area containing ponded water, north of O Street and east of SD729, at the eastern end of the depression, southwest of former Building 434.	SD730-366	12/04/99	Radiological Parameters SVOCs	This location receives runoff from roads formerly used to haul radiological wastes and former Building 434 (subsequently used to store K-65 waste) and the former "thaw house". This sampling location was selected to investigate the presence or absence of site-related constituents in the low-lying ponded area.
SD735 - In the CWM Ditch adjacent and just south of the northern property line, north of N St., and on the border between EUs 5 and 6.	SD735-377	12/03/99	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals	This location receives runoff from the adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary.
SD736 - In the N Street North Ditch at its confluence of the CWM Ditch, north of N St. and on the border between EUs 5 and 6.	SD736-379	12/03/99	Radiological Parameters SVOCs, Metals	This location receives runoff from the adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents in this ditch approximately 300 feet south of the property boundary.
SD737 - In the N Street North Ditch, north of N St. and the Acid Area and west of well BH51.	SD737-381	12/04/99	Radiological Parameters VOCs, Pesticides and PCBs,	This location receives runoff from the adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents in this ditch. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD738 - In a low-lying area containing ponded water, south of N Street and west of the CWM Ditch, in the eastern half of the depression.	SD738-383	12/04/99	Radiological Parameters SVOCs, Metals	This location collects runoff from the Panhandle Area. This sampling location was selected to investigate the presence or absence of site-related constituents in the low-lying ponded area.

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Summary of Sediment Samples Collected and Analyses Preformed
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Sample Location	Sample ID*	Date Collected	Analysis Parameters**	Rationale for Sample Location and Analysis
EU 5 (Continued)				
SD739 - In a low-lying area containing ponded water, south of N Street and west of the CWM Ditch and SW/SD738, in the western half of the depression.	SD739-385	12/04/99	Radiological Parameters VOCs, SVOCs Pesticides and PCBs, Metals	This location collects runoff from the Panhandle Area. This sampling location was selected to investigate the presence or absence of site-related constituents in the low-lying ponded area.
SEDC01 - In a low-lying area containing ponded water, south of N Street and west of the CWM Ditch and SW/SD738, in the central portion of the depression and northwest of former Building 434.	SEDC01-04-2123[4]	8/21/01	Radiological Parameters[3] SVOCs, PCBs	Four samples of the sediment were collected at this location at two discrete depths to vertically characterize the soft sediment in the low-lying area. SEDC01-04-2123 and SEDC01-04-2465 were collected from a depth interval of 0 to 4 inches. SEDC01-08-2125 and SEDC01-08-2460 were collected from a depth of 4 to 8 inches. This location collects runoff from the Panhandle Area.
	SEDC01-08-2125[4]	8/21/01	Radiological Parameters[3]	
	SEDC01-04-2465[4]	11/14/01	VOCs	
	SEDC01-08-2460[4]	11/14/01	VOCs	
SEDC02 - In a low-lying area containing ponded water, south of N Street and west of the CWM Ditch, in the eastern half of the depression.	SEDC02-06-2128[4]	8/21/01	Radiological Parameters[3] SVOCs, PCBs, Metals	This location receives runoff from the Panhandle Area and former Building 434 (used to store K-65 wastes).
	SEDC02-06-2467[4]	11/14/01	VOCs	
SEDC03 - In a low-lying area containing ponded water, north of O Street at the central portion of the depression.	SEDC03-05-2132[4]	8/22/01	Radiological Parameters[3] SVOCs, PCBs, Metals	Four samples of the sediment were collected at this location at two discrete intervals to vertically characterize the soft sediment in the low-lying area. SEDC03-05-2132 and SEDC03-05-2466 were collected from a depth interval of 0 to 5 inches. SEDC03-10-2133 and SEDC03-10-2461 were collected from a depth interval of 5 to 10 inches. This location receives runoff from the Panhandle Area, roads formerly used to haul radiological wastes and the former "thaw house" where drums of residue were offloaded from rail cars.
	SEDC03-10-2133[4]	8/22/01	Radiological Parameters[3]	
	SEDC03-05-2466[4]	11/14/01	VOCs	
	SEDC03-10-2461[4]	11/14/01	VOCs	
SEDC04 - In a low-lying area containing ponded water, north of O Street and east of SD/SW729, at the eastern end of the depression, southwest of former Building 434.	SEDC04-05-2136[4]	8/22/01	Radiological Parameters[3] SVOCs, PCBs, Metals	Four samples of the sediment were collected at this location at two discrete intervals to vertically characterize the soft sediment in the low-lying area. SEDC04-05-2136 and SEDC04-05-2463 were collected from a depth interval of 0 to 5 inches. SEDC04-10-2138 and SEDC04-10-2462 were collected from a depth interval of 5 to 10 inches. This location receives runoff from former Building 434 (used to store K-65 wastes) and roads formerly used to haul radiological wastes.
	SEC04-10-2138[4]	8/22/01	Radiological Parameters[3]	
	SEC04-05-2463[4]	11/14/01	VOCs	
	SEC04-10-2462[4]	11/14/01	VOCs	

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Sample Location	Sample ID*	Date Collected	Analysis Parameters**	Rationale for Sample Location and Analysis
EU 6				
SD731- In the MacArthur Street West Ditch, at its confluence with the O Street North Ditch.	SD731-368	12/04/99	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals	This location receives runoff from former haul roads and former Building 434 used to store K-65 wastes. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditch. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD732 - In the MacArthur Street West Ditch, west of MacArthur Street, at its confluence with the O Street North Ditch.	SD732-370	12/02/99	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals	This location receives runoff from the adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD733 - In the MacArthur Street West Ditch, at the northeast corner of the NFSS property.	SD733-373	12/02/99	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals	This location receives runoff from the adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD734 – In a low-lying area containing ponded water, along the northern property boundary, east of the CWM Ditch.	SD734-375	12/03/99	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals	This low-lying area is at the perimeter of the site. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
EU 7				
SD711 - In the O St. South Ditch, approximately 25 feet east of the intersection of O St. and Lutts Rd.	SD711-317	12/03/99	Radiological Parameters Metals	This location receives runoff from the organic burial area and flows into the Lutts Rd. East Ditch. This sampling location was selected to investigate the presence or absence of site-related constituents near the organic disposal area. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD743 - In Lutts Rd East Ditch, east of Lutts Rd., approximately 60 ft. south of the intersection of Lutts Rd and O St.	SD743-675	10/03/00	Radiological Parameters[3]	This location receives runoff from the former IWCS stormwater pond 3 and the organic burial area. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditch adjacent to the organic burial area. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.

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Summary of Sediment Samples Collected and Analyses Preformed
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Sample Location	Sample ID*	Date Collected	Analysis Parameters**	Rationale for Sample Location and Analysis
EU 7 (Continued)				
SD744 - In the O St. South Ditch, approximately at the intersection of O St. and Lutts Rd. and the confluence of the O. St. South Ditch and the Lutts Rd East Ditch.	SD744-676	10/03/00	Radiological Parameters[3]	This location receives runoff from former IWCS stormwater pond 3 and the organic burial area. This sampling location was selected to investigate the presence or absence of site-related constituents at the confluence of the two ditches. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD745 - In the O St. South Ditch, approximately 90 feet east of the intersection of O St. and Lutts Rd.	SD745-677	10/03/00	Radiological Parameters[3]	This location receives runoff from the organic burial area and the former IWCS stormwater pond 3 and flows into the Lutts Rd. East Ditch. This sampling location was selected to investigate the presence or absence of site-related constituents near the disposal area. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD748 - In Lutts Rd East Ditch, between O St. and the fenced perimeter of the IWCS, and downstream of SD743.	SD748-2153 SD748-2239	9/07/01	Radiological Parameters[1]	Samples were collected where a surface gamma reading of 21,200 cpm was recorded downstream of the IWCS stormwater pond 3. Sample SD748-2239 was collected from a depth interval of 0.5' to 1', immediately below SD748-2153 to further characterize the vertical extent of the radiological parameters. For purposes of risk modeling, this location is considered to be representative of soil conditions.
SD749 - In the O St. South Ditch, approximately 50 feet west of the Central Ditch.	SD749-2154	9/06/01	Radiological Parameters[1]	Samples were collected adjacent and west of SD750 where a gamma reading of 46,700 cpm was recorded. One sample was collected at the 0-0.5'surface interval to characterize the radionuclides in the sediment near SD750 which is located downstream of the IWCS stormwater pond 3. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD750 - In the O St. South Ditch, approximately 40 feet west of the Central Ditch.	SD750-2155 SD750-2216	9/06/01	Radiological Parameters[1]	Samples were collected where a gamma reading of 46,700 cpm was recorded downstream of the IWCS stormwater pond 3. Sample SD750-2216 was collected from a depth interval of 1.5' – 2' to characterize the vertical extent of radiological parameters. For purposes of risk modeling, this location is considered to be representative of soil conditions.
SD751 - In the O St. South Ditch, approximately 30 feet west of the Central Ditch.	SD751-2156	9/06/01	Radiological Parameters[1]	Samples were collected adjacent and east of SD750 where a gamma reading of 46,700 cpm was recorded. One sample was collected at the 0-0.5'surface interval to characterize the radionuclides in the sediment near SD750 which is located downstream of the IWCS stormwater pond 3. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.

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Summary of Sediment Samples Collected and Analyses Preformed
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Sample Location	Sample ID*	Date Collected	Analysis Parameters**	Rationale for Sample Location and Analysis
EU 8				
SD723 – In the Castle Garden Rd West Ditch, and southeast of the former combined shop building (uranium billet storage)	SD723-349	12/04/99	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals	This location receives runoff from the western side of the Shop Area. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches associated with the Shop Area. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD724 – In the O Street South Ditch immediately east of Campbell Street, near the intersection of O St. and Campbell St.	SD724-351	12/04/99	Radiological Parameters Pesticides and PCBs, Metals	This location receives runoff from the former haul roads for radiological residues and from the combined shop building where uranium billets were stored. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches associated with the Shop Area. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD725 – In the O Street South Ditch, adjacent and west of Sixth Street and north of the combined shop building.	SD725-353	11/21/99	Radiological Parameters[2] SVOCs, Metals	This location receives runoff from the former haul roads for radiological residues and the combined shop building where uranium billets were stored. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches associated with the Shop Area. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD725 – In the O Street South Ditch, adjacent and west of Sixth Street and north of the combined shop building.	SD725-353	11/21/99	Radiological Parameters[2] SVOCs, Metals	This location receives runoff from the former haul roads for radiological residues and the combined shop building where uranium billets were stored. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches associated with the Shop Area. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SEDC05 – In the eastern end of a low-lying depression in the central Shop Area, south of X St. and near the former gas station.	SEDC05-06-2141[4]	8/23/01	Radiological Parameters[3] SVOCs, PCBs, Metals	This location receives runoff from the former gas station and the combined shop area. Fuel and uranium billets were stored in these buildings. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
	SEDC05-06-2470[4]	11/15/01	VOCs	
SEDC06 - In the central portion of a low-lying depression in the central Shop Area, south of X St. and near the former gas station.	SECD06-04-2145[4]	8/23/01	Radiological Parameters[3] SVOCs, PCBs, Metals	Four samples of the sediment were collected at this location at two discrete depths to vertically characterize the soft sediment in the low-lying area. Samples SEDC06-04-2145 and SEDC06-04-2468 were collected from a depth interval of 0 to 4'. Samples SEDC06-08-2146 and SEDC06-08-2469 were collected from a depth interval of 4' – 8'.
	SEDC06-08-2146[4]	8/23/01	Radiological Parameters[3]	

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Sample Location	Sample ID*	Date Collected	Analysis Parameters**	Rationale for Sample Location and Analysis
	SEDC06-04-2468[4]	11/15/01	VOCs	This location receives runoff from the former gas station and the combined shop area. Fuel and uranium billets were stored in these buildings, respectively. In addition, during the LOOW RI, organic and/or inorganic compounds were identified above their evaluation criteria in the soil near this area. For purposes of risk modeling, this location is considered to be representative of soil conditions.
	SEDC06-08-2469[4]	11/15/01	VOCs	
EU 10				
SD701 – In the central-northwest lateral IWCS ditch, east of the West Drainage Ditch, adjacent to the NFSS western perimeter fence and north of well cluster OW15.	SD701-293	11/22/99	Radiological Parameters[2] VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	This location receives runoff from the IWCS, the southwestern quadrant of the site and off-site adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches associated with the IWCS and the southwestern quadrant of the site. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD702 – In the central-southwest lateral IWCS ditch, east of the West Drainage Ditch, adjacent to the NFSS western perimeter fence and north of well cluster OW17.	SD702-295	11/21/99	Radiological Parameters[2] VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	This location receives runoff from the IWCS, the southwestern quadrant of the site and off-site adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches associated with the IWCS and the southwestern quadrant of the site. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD703 – In the southwest lateral IWCS ditch, southwest of the West Drainage Ditch, adjacent to the NFSS western perimeter fence, west of the southwest corner of the IWCS and north of well cluster OW18.	SD703-297	11/22/99	Radiological Parameters[2] VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	This location receives runoff from the IWCS, the southwestern quadrant of the site and off-site adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches associated with the IWCS and the southwestern quadrant of the site. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD741 – Outside the fenced perimeter of the IWCS, in the IWCS southwest lateral ditch, south of TWP856 and upstream of SW/SD703.	SD741-672	10/03/00	Radiological Parameters[3]	This location receives runoff from the IWCS. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches located near the IWCS that were remediated or partially remediated by DOE. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD742 – In the northwest lateral IWCS ditch, east of the West Ditch, adjacent to the NFSS western perimeter fence and north of well cluster OW14.	SD741-674	10/03/00	Radiological Parameters[3]	This location receives runoff from the IWCS, the southwestern quadrant of the site and off-site adjacent property. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches associated with the IWCS and the southwestern quadrant of the site. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.

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Sample Location	Sample ID*	Date Collected	Analysis Parameters**	Rationale for Sample Location and Analysis
EU 11				
SD704 – In the Central Ditch adjacent to R St., just north of the southern NFSS property boundary and southeast of the IWCS.	SD704-302	12/01/99	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals	This location receives runoff from the former DOE stockpile area and adjacent properties located south of the NFSS. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
SD752 - In the South 16 Ditch, west of Campbell St, south of the former Shop Area, northwest of Building 401, and adjacent to the former IWCS stormwater pond 5 and north pond.	SD752-2241	9/08/99	Radiological Parameters	Samples were collected at this location where a surface gamma reading of 29,500 cpm was recorded. One sediment sample was collected at the surface to characterize the sediment in an area that receives runoff from the IWCS stormwater ponds (Pond 5 and north pond), Building 401 and the southern Shop Area. Two soil samples were collected below this sample at depths of 1' and 1.5' (SB752-225 and SB752-2250, respectively) to characterize extent and evaluate migration. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
EU 12				
SD719 – In a low-lying area containing ponded water, south of South 16 Ditch, west of Castle Garden Rd and northeast of Building 401.	SD719-341	12/03/99	Radiological Parameters SVOCs	This location receives runoff from Building 401 and surrounding area. This sampling location was selected to investigate the presence or absence of site-related constituents in an area downstream of the Building 401 area. For purposes of risk modeling, this location is considered to be representative of surface soil conditions.
EU 15				
SD705 – Within the fenced perimeter of the IWCS, in the South 31 Ditch, approximately 20 feet east of its confluence with the Central Ditch.	SD705-304	11/30/99	Radiological Parameters SVOCs, Metals	This location receives runoff from Building 401, the former IWCS stormwater ponds and the decontamination pad. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches near the IWCS and downstream of Building 401 and the former IWCS stormwater ponds.
SD706 – Within the fenced perimeter of the IWCS, in the Central Ditch, east of well A50.	SD706-306	11/30/99	Radiological Parameters VOCs, Pesticides and PCBs, Metals	This location receives runoff from the IWCS and the former IWCS stormwater ponds. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches located near the IWCS that were remediated or partially remediated by DOE.

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Summary of Sediment Samples Collected and Analyses Preformed
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Sample Location	Sample ID*	Date Collected	Analysis Parameters**	Rationale for Sample Location and Analysis
EU 15 (Continued)				
SD707 – Within the fenced perimeter of the IWCS, in the Central Ditch, south of its confluence with South 16 Ditch.	SD707-308	11/30/99	Radiological Parameters SVOCs, Metals	This location receives runoff from the IWCS and the former IWCS stormwater ponds. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches located near the IWCS that were remediated or partially remediated by DOE.
SD708 - In the Central Ditch, 200 feet south of O Street South Ditch, downstream of the IWCS, the former IWCS stormwater ponds.	SD708-311	12/01/99	Radiological Parameters VOCs, Metals	This location was sampled to characterize this portion of the Central Ditch and investigate the presence or absence of chemical and radiological[1] compounds in the ditch downstream of the IWCS and the former IWCS stormwater ponds.
SD709 – In the Central Ditch, downstream of its confluence with the O Street South Ditch, north of O St and downstream of the IWCS and the former IWCS stormwater ponds.	SD709-313	11/20/99	Radiological Parameters[2] SVOCs, Pesticides and PCBs, Metals	This location was sampled to characterize this portion of the Central Ditch and investigate the presence or absence of chemical and radiological[1] compounds in the ditch downstream of the IWCS and former IWCS stormwater ponds.
SD710 - In the Central Ditch adjacent and just south of the northern property line and north of N St.	SD710-315	11/20/99	Radiological Parameters[2] VOCs, SVOCs, Pesticides and PCBs Metals, Nitroaromatics	This location receives runoff from the IWCS and the former IWCS stormwater ponds. The runoff at this location exits the site and flows north. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary.
SD715 – In the Modern Landfill Ditch at its confluence with the R St. North Ditch, adjacent to R St., just north of the southern NFSS property boundary and southeast of Building 401	SD715-328	12/03/99	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	This location receives runoff from Modern Landfill located south of the NFSS. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary.
SD716 – In the South 31 Ditch, east of Campbell St. and downstream of Building 401.	SD716-330	12/03/99	Radiological Parameters VOCs, Pesticides and PCBs, Metals	This location receives runoff from Building 401. This sampling location was selected to investigate the presence or absence of site-related constituents in the ditches downstream of Building 401.
SD717 – In the Modern Landfill Ditch at its confluence with the South 31 Ditch, east of Campbell St and South of Building 401.	SD717-333	12/02/99	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	This location receives runoff from the southeastern quadrant of the NFSS and Building 401. This sampling location was selected to investigate the presence or absence of site-related constituents in an area downstream of Building 401.

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Summary of Sediment Samples Collected and Analyses Preformed
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Sample Location	Sample ID*	Date Collected	Analysis Parameters**	Rationale for Sample Location and Analysis
EU 15 (Continued)				
SD718 – In the Castle Garden East Ditch, east and adjacent to its confluence with the South 31 Ditch, north of TWP817, and adjacent to the eastern NFSS boundary.	SD718-338	12/02/99	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	This location receives runoff from the eastern edge of the NFSS and Modern Landfill located to the east. This sampling location was selected to investigate the presence or absence of site-related constituents near the property boundary.
SD720 – In the South 16 Ditch, east of Campbell St, south of the former Shop Area and north of Building 401	SD720-343	12/04/99	Radiological Parameters SVOCs, Pesticides and PCBs, Metals	This location receives runoff from Building 401 and the southern Shop Area. This sampling location was selected to investigate the presence or absence of site-related constituents in the South 16 Ditch.
SD721 – In the South 16 Ditch, between Campbell St and Castle Garden Rd, south of the former Shop Area and northeast of Building 401.	SD721-345	12/04/99	Radiological Parameters SVOCs, Metals	This location receives runoff from Building 401 and the southern Shop Area. This sampling location was selected to investigate the presence or absence of site-related constituents in the South 16 Ditch.
SD722 – In the Castle Garden East Ditch, approximately 50 feet north of its confluence with the South 16 Ditch, near Building 421 and the former K-65 drum storage area and adjacent to the eastern NFSS boundary	SD722-347	12/04/99	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	This location receives runoff from Modern Landfill and the western side of the Shop Area. Chemical and radiological[1] compounds were identified in the LOOW RI above their evaluation criteria near this area. This sampling location was selected to investigate the presence or absence of site-related constituents in the Castle Garden East Ditch.

*Sample depths are 0-0.5' unless otherwise noted
** Parameters include the Target Analyte and Target Compound Lists shown in Section 2.5.

Radiological Parameters includes gross alpha, gross beta, total uranium and the following isotopes: cesium-137, thorium-228 (alpha), radium-226, thorium-230 (alpha), thorium-232 (alpha), uranium-233/234, uranium-235/236, and uranium-238. Additional isotopes added or deleted to some samples are listed in footnotes 1 through 3 below.

1. Except for gross alpha and gross beta, samples were collected/analyzed for the isotopes listed above plus the following isotopes: actinium-227, americium-241, cobalt-60, protactinium-231, radium-228 (gamma), thorium-228 (gamma) and uranium-235 (gamma). Samples were not collected for gross alpha and gross beta.
2. With the following exceptions, samples were collected/analyzed for the parameters listed above under "Radiological Parameters". Samples were not analyzed for cesium-137 or uranium 235/236, but the following isotope was added to those listed under "Radiological Parameters"- uranium235 (gamma).
3. Samples were collected/analyzed for the isotopes listed above under "Radiological Parameters", plus the following isotopes: actinium-227, americium-241, cobalt-60, protactinium-231, radium-228, and uranium-235. Samples were collected for gross alpha and gross beta.
4. Because of problems with sample preservations, the VOC samples at these locations were later recollected.

Table 3-13
Summary of Sediment Samples Collected and Analyses Performed
LOOW Remedial Investigation

Sample Location (Station ID and EU)		Sample ID	Collection Date	Analyses
C9-4-1	EU10	C9-4-SD-1	7/21/1998	Explosives, Metals
C9-4-2	EU10	C9-4-SD-2	7/21/1998	Explosives, Metals
C7-NFSS-ST9	EU2	C7-NFSS-SL-ST9	7/7/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C7-NFSS-PIPE1	EU4	C7-NFSS-SL-PIPE1	7/13/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C7-NFSS-PIPE2	EU4	C7-NFSS-SL-PIPE2	7/13/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C7-NFSS-ST6	EU4	C7-NFSS-SL-ST6	7/7/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C7-NFSS-SUMP1	EU4	C7-NFSS-SL-SUMP1	7/13/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C7-NFSS-SUMP2	EU4	C7-NFSS-SL-SUMP2	7/13/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C9-4-3	EU7	C9-4-SD-3	7/21/1998	Explosives, Metals
C7-NFSS-SS10	EU8	C7-NFSS-SL-SS10	7/6/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs

Note: Rationale for parameter selection was to test for LOOW marker compounds.

Table 3-14
Summary of Background Sediment Samples Collected and Analyses Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location*	Sample ID	Date Collected
SDBKG-01 – Located in the West Ditch outside and 75 feet south of the southwest corner of the NFSS perimeter fence	SDBKG-01-3203	3/09/03
SDBKG-02 – Located in the Central Ditch just within the fenced NFSS southern perimeter as the ditch enters the site.	SDBKG-01-3201	3/08/03
SDBKG-03 – Located in the northwest corner of the NFSS in the ditch that originates on property owned by the town of Lewiston. This sample was collected just inside the northern perimeter fence where the ditch enters the site.	SDBKG-01-3205	3/15/03
SDBKG-04 – Located along the northern perimeter of EU 2 in a ditch that originates on property belonging to CWM. This sample was collected just inside the northern perimeter fence where the ditch enters the site.	SDBKG-01-3207	3/17/03
SDBKG-05 - Located along the northern perimeter fence and the line separating EUs 4 and 5 in a ditch that originates on property belonging to CWM. This sample was collected just inside the northern perimeter fence where the ditch enters the site.	SDBKG-01-3209	3/18/03
SDBKG-06 - Located along the northern perimeter fence and the line separating EUs 5 and 6 in a ditch that originates on property belonging to CWM. This sample was collected just inside the northern perimeter fence where the ditch enters the site.	SDBKG-01-3211	3/19/03
SDBKG-07 – Located along the eastern perimeter fence at the intersection of O St. and Castle Garden Road in a ditch that originated on property belonging to Modern Landfill. This sample was collected just inside the eastern perimeter fence where the ditch enters the site.	SDBKG-01-3213	3/14/03
SDBKG-08 - Located along the eastern perimeter fence, east of Castle Garden Rd, north of the intersection of the Eastern Ditch and South 16 Ditch in a ditch that originated on property belonging to Modern Landfill. This sample was collected just inside the eastern perimeter fence where the ditch enters the site.	SDBKG-01-3215	3/08/03
SDBKG-09 - Located along the eastern perimeter fence, east of Castle Garden Rd, 100 ft north of the intersection of the Eastern Ditch and South 31 Ditch in a ditch that originated on property belonging to Modern Landfill. This sample was collected just inside the eastern perimeter fence where the ditch enters the site.	SDBKG-01-3217	3/20/03
SDBKG-10 - Located along the southern perimeter fence, 175 ft east of Campbell St, south of the intersection of a southern ditch with the ditch that originated on property belonging to Modern Landfill. This sample was collected just inside the eastern perimeter fence where the ditch enters the site.	SDBKG-01-3219	3/09/03

* Parameters include the Target Analyte and Target Compound Lists shown in Section 2.5. Filtered and unfiltered samples for metals and radionuclides analyses were collected except where noted.

Table 3-15
Summary of Samples Collected from New and DOE Installed Groundwater Monitoring Wells and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	New Well Y/N	Well Depth TOC (ft)	Water-Bearing Zone	Analysis Parameters*	Rationale for Sample Location and Analysis
BH61 – Northwest corner of the NFSS and Baker Smith Area, west of West Patrol Road	GWBH61-274	1/6/00 Phase 1	N	46.00	Lower	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence, absence and migration of chemical and radiological parameters at the NFSS boundary near the former LOOW pipe shop. Drums of L-30 and KAPL wastes were stored in this area.
	GWBH61-3284	5/20/03 Phase 3				All above parameters plus: PAHs, Miscellaneous parameters[4] (No TDS or alkalinity)	Previous samples collected from BH61 indicated the presence of VOCs. This well was resampled to confirm these results and evaluate the presence of other parameters at detection limits lower than those obtained in Phase 2.
BH62 – Northwest corner of the NFSS and Baker Smith Area, west of West Patrol Road	GWBH62-275	1/7/00 Phase 1	N	98.00	Lower	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence, absence and migration of chemical and radiological parameters in the lower water-bearing zone at the NFSS boundary near the former Pipe Shop. Drums of L-30 and KAPL wastes were stored in this area.
MW505 – Northwest corner of the NFSS, adjacent and east of West Patrol Rd and adjacent to the northern perimeter fence.	GW505-783	9/28/00 Phase 2	Y	18.50	Upper	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Installed northwest of buildings formerly used to store radioactive residues (Buildings 443, 444 and 445) to further evaluate the presence of VOCs, metals, radiological and other non-radiological parameters in wells at the property boundary. Samples of groundwater collected from the permanent wells BH61 and BH62, installed in the lower water-bearing zone, indicated the presence of VOCs and metals. Samples from TWP502 and TWP503, located southeast of MW505, exhibited gross alpha and radionuclides.
	GW505-3279	5/29/03 Phase 3				All above parameters plus: PAHs, Miscellaneous Parameters[4] (No TDS or alkalinity)	Previous sample collected from this well indicated the presence of VOCs, SVOCs and metals and radiological parameters. This well was resampled to confirm the previous results, further characterize the groundwater in the upper water-bearing zone near the property boundary and evaluate the presence of organic parameters at revised reporting limits.
BH50 – East of the Baker Smith Area, along the northern perimeter of NFSS, east of Lutts Rd.	GWBH50-267	1/10/00 Phase 1	N	44.00	Lower	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence, absence and migration of chemical and radiological parameters at the NFSS boundary.
	GWBH50-3283	5/29/03 Phase 3				All above parameters plus: PAHs, Miscellaneous Parameters[4] (No TDS or alkalinity)	Previous samples collected from BH50 indicated the presence of VOCs and SVOCs. This well was resampled to confirm the previous chemical and radiological results and evaluate the presence of organic parameters at revised reporting limits.
MW404A – East of Campbell St, between N and O Streets, near former Building 433 (radium vault)	GW404A-779	9/27/00 Phase 2	Y	25.00	Upper	Radiological Parameters[1]	Further evaluate the extent of the radiological parameters found in the groundwater at TWP404. The well and TWP were installed near a former fuel oil storage area and the radium vault (Building 433).

Table 3-15
Summary of Samples Collected from New and DOE Installed Groundwater Monitoring Wells and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	New Well Y/N	Well Depth TOC (ft)	Water-Bearing Zone	Analysis Parameters*	Rationale for Sample Location and Analysis
GW808A – East of the Baker Smith Area in a wooded area bounded by Lutts Rd, O St., the Central Ditch and N St., approximately 10 ft. from TWP808	GW808A-787	9/29/00 Phase 2	Y	17.00	Upper	Radiological Parameters[1]	Further evaluate the extent of the thorium, uranium and radium found in the groundwater at TWP808. The well was installed in an area that had not been previously investigated.
	GW808A-3257	5/28/03 Phase 3				Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	Previous samples collected from this well indicated the presence of radiological parameters. This well was resampled to confirm the previous results, further characterize the chemical and radiological compounds in the groundwater in the upper water-bearing zone in EU 2 and evaluate the presence of organic parameters at revised reporting limits.
GW810A – South of N St., 400 feet west of Campbell Streets approximately 10 ft. from TWP810	GW810A-788	9/28/00 Phase 2	Y	15.00	Upper	Radiological Parameters[1] VOCs	Further evaluate the extent of the VOCs and thorium, uranium and radium found in the groundwater at TWP810. The well and TWP were installed in an area that had not been previously investigated.
	GW810A-3258	5/28/03 Phase 3				All above parameters plus: SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics, VOCs	Previous samples collected from this well indicated the presence of VOCs and radiological parameters (cesium, radium and thorium). This well was resampled to confirm the previous results, further characterize chemical and radiological compounds in the groundwater in the upper water-bearing zone and evaluate the presence of organic parameters at revised reporting limits.
MW411A – Northwest of the intersection of N St. and Castle Garden Rd.	GW411A-780	9/29/00 Phase 2	Y	17.00	Upper	Radiological Parameters[1]	Further evaluate the extent of the thorium and radium found in the groundwater at TWP411. The well and TWP were installed at the NFSS boundary north of the Acid Area where radiological wastes were stored.
	GW411A-3255	5/19/03 Phase 3				Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	Previous samples collected from this well, MW415A, and nearby sewer lines indicated the presence of VOCs and inorganic parameters. This well was resampled to confirm the previous results, further characterize the extent of the chemical and radioactive constituents and evaluate the presence of organic parameters at revised reporting limits.
MW415A – Central Acid Area, north of O street and east of building 431	GW415A-781	9/29/00 Phase 2	Y	15.00	Upper	Radiological Parameters[2] VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Further evaluate the extent of the chlorinated VOCs, SVOCs, metals, and radiological parameters found in the groundwater at TWP415 and investigate the presence of other non-radiological parameters. The well and TWP were installed near the former nitric acid concentrator and Buildings 431 and 432.
	GW415A-3280	5/19/03 Phase 3	Y	15.00	Upper	All above parameters plus: PAHs, Miscellaneous Parameters[4] (No TDS or alkalinity)	Previous samples collected from this well and the sewer lines indicated the presence of VOCs and inorganic parameters. This well was resampled to confirm the previous results, further characterize the extent of the chlorinated solvents and other chemical in the upper water-bearing zone in EU4 and evaluate the presence of organic parameters at revised reporting limits.
MW422 – Upgradient from MW415A	GW-MW422-3610	9/17/03 Phase 3	Y	10	Upper	Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics Miscellaneous Parameters[4]	Samples collected from MW411A, MW415A and sewer lines in this area contained chlorinated solvents. This well was installed and sampled to further evaluate the extent of the chlorinated solvents and the presence or absence of other parameters in the upper water-bearing zone in this area.

Table 3-15
Summary of Samples Collected from New and DOE Installed Groundwater Monitoring Wells and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	New Well Y/N	Well Depth TOC (ft)	Water-Bearing Zone	Analysis Parameters*	Rationale for Sample Location and Analysis
MW423 – South of N St. and TWP424 and northeast of MW415A	GW-MW423-3613	10/6/03 Phase 3	Y	22.35	Upper	VOCs, SVOCs, Miscellaneous Parameters[4] (Gaseous hydrocarbons only)	Samples collected from MW411A, MW415A and sewer lines in this area contained chlorinated solvents. This well was installed and sampled to further evaluate the extent of the chlorinated solvents and the presence or absence of other parameters in the upper water-bearing zone in this area.
MW424 – North of N St, east of MW411A and north of MW423	GW-MW424-3610	10/4/03 Phase 3	Y	21.60	Upper	Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics Miscellaneous Parameters[4]	Samples collected from MW411A, MW415A and sewer lines in this area contained chlorinated solvents. This well was installed and sampled to further evaluate the extent of the chlorinated solvents and the presence or absence of other parameters in this area.
BH51 – Northern perimeter of the NFSS, west of TWP424, north of N St.	GWBH51-269	1/8/00 Phase 1	N	52.00	Lower	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence, absence and migration of chemical and radiological parameters in the lower water-bearing zone at the NFSS boundary east of the former water tower used to store the K-65 waste.
	GWBH51-3293	6/2/03 Phase 3				Metals	This well was resampled to confirm previous analytical results for metals.
BH60 – Southern perimeter of the NFSS along O St., west of TWP423	GWBH60-273	1/5/00 Phase 1	N	45.80	Lower	Radiological Parameters VOCs, SVOCs, Metals	Evaluate the presence, absence and migration of chemical and radiological parameters in the lower water-bearing zone at the NFSS boundary near the former haul road for the K-65 waste.
OW20D – Along O St., 800 feet east of Castle Garden Rd.	GWOW20D-257	1/7/00 Phase 1	N	48.50	Lower	Radiological Parameters[1] VOCs, SVOCs, Metals	Evaluate the presence, absence and migration of chemical and radiological parameters. Southwest of former Building 434 used to store the K-65 waste and near the site of a 1953 explosion and fire on the CWM site. O St. was used as a haul road for the K-65 waste.
OW20S - Along O St., 800 feet east Castle Garden Rd.	GWOW20S-263	1/7/00 Phase 1	N	22.00	Upper	Radiological Parameters[1] VOCs, SVOCs, Metals	Evaluate the presence, absence and migration of chemical and radiological parameters. Southwest of the former Building 434 used to store the K-65 waste and near the site of a 1953 explosion and fire on the CWM site. O St. was used as a haul road for the K-65 waste.
	GWBO2WO20S-3287	5/15/03 Phase 3				All above parameters plus: PAHs, Pesticides and PCBs, Nitroaromatics, Miscellaneous Parameters[4]	Previous samples collected from this well and OW20D indicated the presence of SVOC and radiological parameters. This well was resampled as a part of the environmental surveillance program. In addition, the sample was collected to confirm the previous results, further characterize the groundwater near the property boundary and evaluate the presence of organic parameters at revised reporting limits.
BH57 – East of McArthur St. along the eastern NFSS perimeter, near BH63 and TWP607	GWBH57-271	1/8/00 Phase 1	N	101.50	Lower	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	This existing well was sampled to evaluate the presence, absence and migration of chemical and radiological parameters in the lower water-bearing zone at the NFSS boundary near the former Building 434.

Table 3-15
Summary of Samples Collected from New and DOE Installed Groundwater Monitoring Wells and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	New Well Y/N	Well Depth TOC (ft)	Water-Bearing Zone	Analysis Parameters*	Rationale for Sample Location and Analysis
	GWBH57-3278	5/31/03 Phase 3	N	101.50	Lower	All above parameters plus: PAHs, Nitroaromatics, Miscellaneous parameters[4] (No TDS or alkalinity)	Previous samples collected from A57 indicated the presence of radium-226. This well was resampled to confirm these results, investigate non-radiological compounds and evaluate the presence of organic parameters at revised reporting limits.
BH63 - East of McArthur St. along the eastern NFSS perimeter, near BH57 and TWP607	GWBH63-277	1/5/00 Phase 1	N	48.70	Lower	Radiological Parameters VOCs, SVOCs, Metals	Evaluate the presence, absence and migration of chemical and radiological parameters in the lower water-bearing zone at the NFSS boundary near the former Building 434.
GW603A – Near the location of former Building 434, approximately 10 ft. from TWP603	GW603A-785	9/27/00 Phase 2	Y	20.00	Upper	Radiological Parameters[1]	Further evaluate the extent of the uranium and radium found in the groundwater at TWP603. The well and TWP were installed near the former Building 434 where K-65 wastes were stored.
	GW603A-3256	5/18/03 Phase 3				Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	This well was resampled to evaluate the presence of chemical and radiological parameters at revised reporting limits.
GW606 - Southeast corner of the NFSS	GW606-786	9/27/00 Phase 2	Y	20.00	Upper	Radiological Parameters[1]	Samples of groundwater collected from the nearby wells BH57 and BH63, installed in the lower water-bearing zone, indicated the presence of radium and thorium. These parameters were also in samples collected from TWP604 and TWP605 installed northwest and west of MW606. This well was installed near the Modern Landfill property line southeast of the former water storage tower (K-65 waste storage) and the former "thaw house" where drums of residue were offloaded from rail cars.
BH5 – Shop Area, South of Z St, and near Campbell Street	GWBH05-251	1/5/00 Phase 1	N	52.50	Lower	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the Shop Area.
BH15 – Central Shop Area, south of X St and TWP310, and near former change houses (titanium alloys stored)	GWBH15-253	1/6/00 Phase 1	N	104.50	Lower	Radiological Parameters VOCs, SVOCs, Metals	Evaluate the presence or absence of chemical and radiological parameters in the lower water-bearing zone (titanium alloy storage) and to evaluate the presence and extent of organic and/or inorganic compounds previously identified in the LOOW RI in the soil near this area.
	GWBH15-3276	6/1/03 Phase 3				All above parameters plus: PAHs, Pesticides and PCBs, Nitroaromatics, Miscellaneous Parameters[4] (No TDS, alkalinity)	Previous sample collected from BH15 indicated the presence of VOCs and radium-226. This well was resampled to confirm and further characterize the extent of VOCs and radium in the upper water-bearing zone, investigate other non radiological parameters and evaluate the presence of organic parameters at revised reporting limits.

Table 3-15
Summary of Samples Collected from New and DOE Installed Groundwater Monitoring Wells and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	New Well Y/N	Well Depth TOC (ft)	Water-Bearing Zone	Analysis Parameters*	Rationale for Sample Location and Analysis
WO19D - East of Castle Garden Road in the southeast corner of the Shop Area, near Buildings 420, 421 and the former K-65 drum storage area	WO19D-260	1/6/00 Phase 1	N	48.20	Lower	Radiological Parameters[1] VOCs, SVOCs, Metals	Evaluate the presence or absence of chemical and radiological parameters in the groundwater associated with a nearby concrete rubble pile and the former K-65 drum storage area, to evaluate the extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this area and to investigate potential site-related constituents near the property boundary.
MW302A – West of Castle Garden Rd in the southeast corner of the Shop Area, near Buildings 420, 421 and the former K-65 drum storage area	GW302A-777	9/27/00 Phase 2	Y	15.00	Upper	Radiological Parameters[1]	Further evaluate the extent of the uranium isotopes found in the groundwater at TWP302. The well and TWP were installed near a concrete rubble pile and K-65 drum storage area in the Shop Area.
	GW302A-3253	5/18/03 Phase 3				Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	Previous samples collected from this well indicated the presence of radiological parameters. This well was resampled to confirm the previous results, further characterize the radiological and non-radiological parameters in the groundwater in the upper water-bearing zone near Buildings 420 and 421 and evaluate the presence of organic parameters at revised reporting limits.
MW303A – Central Shop Area, south of Z St., adjacent to the former gas station and near Building 422 (uranium rod storage)	GW303A-778	9/29/00 Phase 2	Y	15.00	Upper	Radiological Parameters[1] VOCs	Further evaluate the extent of the VOCs and radiological parameters found in the groundwater at TWP303. The well and TWP were installed near a former pipeline, UST and uranium rod storage area in the Shop Area.
	GW303A-3254	5/18/03 Phase 3				Radiological Parameters VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	Previous samples collected from this well indicated the presence of VOCs and uranium isotopes. This well was resampled to confirm the previous results, further characterize the radiological and non-radiological parameters in the groundwater in the upper water-bearing zone near Building 422 and evaluate the presence of organic parameters at revised reporting limits.
MW313 – South of Z St., and west of the foundation for Building 421	GW-MW313-3592	10/3/03 Phase 3	Y	22.00	Upper	Radiological Parameters[3] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals	Samples collected from MW302A indicated the presence of VOCs, SVOCs and uranium isotopes. This well was installed and sampled to evaluate the presence or absence of radiological and chemical parameters in the upper water-bearing zone west of MW302A.
A23A – Southeast of the IWCS and east of well cluster OW06	GWA23A-285	1/10/00 Phase 1	N	78.50	Lower	Radiological Parameters VOCs, SVOCs, Metals	Evaluate the presence or absence of chemical and radiological parameters in the lower water-bearing zone adjacent to the IWCS.
A42 – West of the IWCS and north of well cluster OW01	GWA42-254	1/6/00 Phase 1	N	22.50	Upper	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the upper water-bearing zone adjacent to the IWCS.

Table 3-15
Summary of Samples Collected from New and DOE Installed Groundwater Monitoring Wells and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	New Well Y/N	Well Depth TOC (ft)	Water-Bearing Zone	Analysis Parameters*	Rationale for Sample Location and Analysis
	GWA42-3275	5/29/03 Phase 3				All above parameters plus: PAHs, , Miscellaneous Parameters[4] (No TDS or alkalinity)	Previous samples collected from A42 indicated the presence of radiological activity. This well was resampled to confirm the presence of radionuclides in the upper water-bearing zone, investigate non-radiological parameters and evaluate the presence of organic parameters at revised reporting limits.
A43 – West of the IWCS and south of cluster OW01 and well A42	GWA43-264	1/5/00 Phase 1	N	14.00	Upper	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the upper water-bearing zone adjacent to the IWCS.
	GWA43-3259	5/17/03 Phase 3				All above parameters plus: PAHs	Previous samples collected from A43 indicated the presence of radiological activity. This well was resampled to confirm the presence of radionuclides in the upper water-bearing zone, investigate non-radiological parameters and evaluate the presence of organic parameters at revised reporting limits.
A45 – Northeast of the IWCS and east of A52	GWA45-256	1/5/00 Phase 1	N	20.00	Upper	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the upper water-bearing zone adjacent to the IWCS.
	GWA45-3285	5/16/03 Phase 3	N	20.00	Upper	All above parameters plus: PAHs, Miscellaneous Parameters[4]	Previous samples collected from A45 indicated the presence of radiological activity. This well was resampled as part of the environmental surveillance program and to confirm the presence of radionuclides in the upper water-bearing zone, investigate non-radiological parameters and evaluate the presence of organic parameters at revised reporting limits.
A50 – East of the IWCS and south of cluster MW860/861	GWA50-258	1/9/00 Phase 1	N	23.00	Upper	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the upper water-bearing zone adjacent to the IWCS.
	GWA50-3286	5/15/03 Phase 3				All above parameters plus: PAHs, Miscellaneous Parameters[4]	Previous samples collected from A50 indicated the presence of VOCs. This well was resampled as part of the surveillance program and to confirm the presence of VOCs in the upper water-bearing zone, investigate chemical and radiological parameters and evaluate the presence of organic parameters at revised reporting limits.
A51 - East of the IWCS and south of cluster MW860/861	GWA51-270	1/7/00 Phase 1	N	21.00	Upper	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the upper water-bearing zone adjacent to the IWCS.
A52 - North of the IWCS and west of A45	GWA52-259	1/10/00 Phase 1	N	15.00	Upper	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the upper water-bearing zone adjacent to the IWCS.

Table 3-15
Summary of Samples Collected from New and DOE Installed Groundwater Monitoring Wells and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	New Well Y/N	Well Depth TOC (ft)	Water-Bearing Zone	Analysis Parameters*	Rationale for Sample Location and Analysis
	GWA52-3260	5/19/03 Phase 3				All above parameters plus: PAHs	Previous samples collected from A52 indicated the presence of radiological activity. This well was resampled to confirm the presence of radionuclides in the upper water-bearing zone, investigate non-radiological parameters and evaluate the presence of organic parameters at revised reporting limits.
A54 – West of the IWCS and south of A43	GWA54-280	1/8/00 Phase 1	N	38.79	Lower	Radiological Parameters VOCs, SVOCs, Metals	Evaluate the presence or absence of chemical and radiological parameters in the lower water-bearing zone adjacent to the IWCS.
A55 - South corner of the IWCS and south of A54	GWA55-3265	5/17/03 Phase 3	N	39.00	Lower	Radiological Parameters VOCs, SVOCs, PAHs Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the lower water-bearing zone adjacent to the IWCS.
A56 – South of the IWCS and west of cluster OW06	GWA56-282	1/6/00 Phase 1	N	40.40	Lower	Radiological Parameters VOCs, SVOCs, Metals	Evaluate the presence or absence of chemical and radiological parameters in the lower water-bearing zone adjacent to the IWCS.
A57 – South of the IWCS and west of cluster OW06	GWA57-281	1/6/00 Phase 1	N	80.00	Lower	Radiological Parameters VOCs, SVOCs, Metals	Evaluate the presence or absence of chemical and radiological parameters in the lower water-bearing zone adjacent to the IWCS.
BH49 – Northwest of the IWCS	GWBH49-266	1/9/00 Phase 1	N	50.90	Lower	Radiological Parameters VOCs, SVOCs, Metals	Evaluate the presence or absence of chemical and radiological parameters in the lower water-bearing zone adjacent to the IWCS.
BH49A – Northwest of the IWCS	GWBH49A-790	9/30/00 Phase 2	N	19.50	Upper	Radiological Parameters[1] VOCs	VOCs found in BH49 (lower water-bearing zone). BH49A sampled to investigate vertical extent of VOCs and to investigate if radiological parameters are present.
	GWBH49A-3261	5/15/03 Phase 3				Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals and TOC, Nitroaromatics	Previous samples collected from BH49A indicated the presence of radiological parameters. This well was resampled to confirm the presence of radionuclides in the upper water-bearing zone, investigate non-radiological parameters and evaluate the presence of organic parameters at revised reporting limits.
BH70 - East of the IWCS and A51 and east of the Central Ditch	GWBH70-283	1/10/00 Phase 1	N	45.00	Lower	Radiological Parameters VOCs, SVOCs, Metals	Evaluate the presence or absence of chemical and radiological parameters in the lower water-bearing zone adjacent to the IWCS and east of the Central Ditch.
OW01A – West of the IWCS and north of A43	GWOW01A-3273	6/1/03 Phase 3	N	47.00	Lower	Radiological Parameters[2] VOCs, SVOCs, PAHs Pesticides and PCBs, Metals, Nitroaromatics	Previous samples collected from A42 and A43 indicated the presence of radiological parameters. This well was not previously sampled and was sampled to further characterize the radiological and chemical parameters near the IWCS, investigate the potential connectivity between the upper and lower water-bearing zones and evaluate the presence of organic parameters at revised reporting limits.

Table 3-15
Summary of Samples Collected from New and DOE Installed Groundwater Monitoring Wells and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	New Well Y/N	Well Depth TOC (ft)	Water-Bearing Zone	Analysis Parameters*	Rationale for Sample Location and Analysis
OW01B – West of the IWCS and north of A43	GWOW01B-793	9/30/00 Phase 2	N	17.00	Upper	Radiological Parameters[1]	Previous samples collected from A42 and A43 indicated the presence of radiological activity. This well was sampled to evaluate the extent of radionuclides in the upper water-bearing zone near the IWCS.
OW02A – Along the northwest perimeter of the IWCS, and north of A42	GWOW02A-794	9/30/00 Phase 2	N	46.00	Lower	Radiological Parameters[1]	Samples collected from A42 and A43 indicated the presence of radiological activity. This well was sampled to further characterize the extent of radionuclides in the lower water-bearing zone and the hydraulic connection between the upper and lower water-bearing zones.
OW02B – Along the northwest perimeter of the IWCS, and north of A42	GWOW02B-795	10/1/00 Phase 2	N	20.00	Upper	Radiological Parameters[1]	Samples collected from A42 and A43 indicated the presence of radiological activity. This well was sampled to further characterize the extent of radionuclides in the upper water-bearing zone on the west side of the IWCS.
	GWOW02B-3264	5/16/03 Phase 3				Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	Samples collected from OW02B indicated the presence of radiological parameters. This well was resampled to confirm the results, further characterize the extent of the radiological compounds in the upper water-bearing zone, investigate non-radiological parameters and evaluate the presence of organic parameters at revised reporting limits.
OW03A – Northwest of the IWCS, and north of the OW02 well cluster	GWOW03A-286	1/8/00 Phase 1	N	42.00	Lower	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the upper water-bearing zone northwest of the IWCS.
OW03B - North of the OW02 well cluster	GWOW03B-261	1/9/00 Phase 1	N	16.00	Upper	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the lower water-bearing zone northwest of the IWCS.
OW04A- North of the IWCS, and in between of the OW03 well cluster and A52	GWOW04A-279	1/9/00 Phase 1	N	40.60	Lower	Radiological Parameters VOCs, SVOCs, Metals	Evaluate the presence or absence of chemical and radiological parameters in the lower water-bearing zone north of the IWCS. Activities performed near the LOOW WWTP and the IWCS may have resulted in the presence of a wide variety of radiological and non-radiological compounds. Analytical parameters were selected based on historical use of the area.
OW04B- Well cluster OW04 located within the fenced area for the IWCS, north of the IWCS, and in between the OW03 well cluster and A52	GWOW04B-3290	5/15/03 Phase 3	N	17.00	Upper	Radiological Parameters VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics, Miscellaneous parameters[4] (No TOC)	Previous samples collected from OW04A and A52 indicated the presence of VOCs (OW04A) and radiological parameters (A52). This well was not previously sampled and was sampled as a part of the environmental surveillance program. This well was sampled to further characterize chemical and radiological parameters in the groundwater in this area, investigate the potential connectivity between the upper and lower water-bearing zones and evaluate the presence of organic parameters at revised reporting limits.
OW05A – North of the IWCS along the fence perimeter, and north of cluster OW04	GWOW05A-278	1/9/00 Phase 1	N	44.30	Lower	Radiological Parameters[2] VOCs, SVOCs, Metals	Evaluate the presence or absence of chemical and radiological parameters in the lower water-bearing zone north of the IWCS.

Table 3-15
Summary of Samples Collected from New and DOE Installed Groundwater Monitoring Wells and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	New Well Y/N	Well Depth TOC (ft)	Water-Bearing Zone	Analysis Parameters*	Rationale for Sample Location and Analysis
OW05B – Well cluster OW05 located within the fenced area for the IWCS, north of the IWCS along the fence perimeter, and north of cluster OW04	GWOW05B-3274	5/30/03 Phase 3	N	17.00	Upper	Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	Previous samples collected from OW04A, OW05A and A52 indicated the presence of VOCs (OW04A, OW05A) and radiological parameters (A52). This well was not previously sampled and was sampled to further characterize chemical and radiological parameters in the groundwater in this area, investigate the potential connectivity between the upper and lower water-bearing zones and evaluate the presence of organic parameters at revised reporting limits.
OW06A – Southeast of the IWCS and west of A23A	GWOW06A-287	1/8/00 Phase 1	N	40.20	Lower	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the lower water-bearing zone southeast of the IWCS.
OW06B - Southeast of the IWCS and west of A23A	GWOW06B-262	1/8/00 Phase 1	N	17.00	Upper	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the upper water-bearing zone southeast of the IWCS.
	GWOW06B-3291	5/16/03 Phase 3				All above parameters plus: PAHs, Miscellaneous parameters[4]	This well was resampled as a part of the environmental surveillance program.
OW07A - Southeast of the IWCS and east of cluster OW13	GWOW07A-796	10/2/00 Phase 2	N	39.60	Lower	Radiological Parameters[1]	Further characterize radiological parameters in the lower water-bearing zone southeast of the IWCS and evaluate the potential hydraulic connection between the upper and lower water-bearing zones.
	GWOW07A-3294	5/31/03 Phase 3				Radiological Parameters[2]	Previous samples collected from this well indicated the presence of radium-226 and thorium isotopes. This well was resampled to confirm results.
OW07B - Southeast of the IWCS and east of cluster OW13	GWOW07B-3292	5/13/03 Phase 3	N	13.00	Upper	Radiological Parameters[2] VOCs, SVOCs, PAHs Pesticides and PCBs, Metals, Nitroaromatics Miscellaneous parameters[4]	Previous samples collected from OW07A indicated the presence of radium-226 and thorium isotopes. This well was not previously sampled and was sampled as a part of the environmental surveillance program and to further characterize the chemical and radiological parameters in the groundwater in this area, investigate the potential connectivity between the upper and lower water-bearing zones and evaluate the presence of organic parameters at revised reporting limits.
OW08A – Northeast of the IWCS	GWOW08A-797	10/1/00 Phase 2	N	44.60	Lower	Radiological Parameters[1]	Further characterize radiological parameters in the lower water-bearing zone northeast of the IWCS and evaluate the potential hydraulic connection between the upper and lower water-bearing zones.
OW08B - Northeast of the IWCS	GWOW08B-798	9/30/00 Phase 2	N	12.00	Upper	Radiological Parameters[1]	This existing well was sampled to further characterize radiological parameters in the upper water-bearing zone northeast of the IWCS and evaluate the potential hydraulic connection between the upper and lower water-bearing zones. Analytical parameters were selected based on the burial of radiological residues and waste in the area.
OW09A - East of the IWCS and south of well cluster OW08	GWOW09A-799	10/1/00 Phase 2	N	41.10	Lower	Radiological Parameters[1]	Further characterize radiological parameters in the lower water-bearing zone east of the IWCS and evaluate the potential hydraulic connection between the upper and lower water-bearing zones.

Table 3-15
Summary of Samples Collected from New and DOE Installed Groundwater Monitoring Wells and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	New Well Y/N	Well Depth TOC (ft)	Water-Bearing Zone	Analysis Parameters*	Rationale for Sample Location and Analysis
OW09B - East of the IWCS and south of well cluster OW08	GWOW09B-800	10/2/00 Phase 2	N	4.60	Upper	Radiological Parameters[1] SVOCs	Further characterize SVOC and radiological parameters in the upper water-bearing zone east of the IWCS.
	GWOW09B-3262	5/30/03 Phase 3				Radiological Parameters[2] VOCs, SVOCs, PAHs Pesticides and PCBs, Metals, Nitroaromatics	Previous samples collected from OW09B indicated the presence of radiological parameters (radium-226, total uranium and uranium isotopes). This well was resampled to further characterize the radiological and chemical parameters in the groundwater in this area, and evaluate the presence of organic parameters at revised reporting limits.
OW10A - East of the IWCS and southwest of the decon pad	GWOW10A-288	1/9/00 Phase 1	N	40.30	Lower	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the lower water-bearing zone east of the IWCS near the decon pad and evaluate the potential hydraulic connection between the upper and lower water-bearing zones.
OW10B - East of the IWCS and southwest of the decon pad	GWOW10B-801	10/1/00 Phase 2	N	29.00	Upper	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the upper water-bearing zone east of the IWCS near the decon pad.
	GWOW10B-3277	6/1/03 Phase 3	N			All above parameters plus: PAHs, Miscellaneous parameters[4] (No alkalinity)	Previous samples collected from well clusters OW09 and OW10 indicated the presence of SVOCs (OW10B), VOCs (OW10A) and radiological parameters (radium-226, thorium isotopes, total uranium and uranium isotopes). This well was resampled to further characterize the chemical and radiological parameters in the groundwater in this area, and evaluate the presence of organic parameters at revised reporting limits.
OW11A – East of the IWCS and south of cluster OW10	GWOW11A-3266	5/31/03 Phase 3	N	37.20	Lower	Radiological Parameter[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	Previous samples collected from well clusters OW09 and OW10 indicated the presence of SVOCs (OW10B), VOCs (OW10A) and radiological parameters (radium-226, thorium isotopes, total uranium and uranium isotopes). This well was not previously sampled and was sampled to further characterize the chemical and radiological parameters in the groundwater in this area, investigate the potential connectivity between the upper and lower water-bearing zones and evaluate the presence of organic parameters at revised reporting limits.
OW11B – East of the IWCS and south of	GWOW11B-803	10/2/00 Phase 2	N	16.00	Upper	Radiological Parameters[1]	Further characterize radiological parameters in the upper water-bearing zone southeast of the IWCS.

Table 3-15
Summary of Samples Collected from New and DOE Installed Groundwater Monitoring Wells and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	New Well Y/N	Well Depth TOC (ft)	Water-Bearing Zone	Analysis Parameters*	Rationale for Sample Location and Analysis
cluster OW10	GWOW11B-3263	5/28/03 Phase 3				Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	The previous sample collected from OW11B contained levels of most of the radiological parameters. This well contained the highest concentrations of total and isotopic uranium found in groundwater samples collected from the permanent groundwater wells. This well was resampled to confirm those results, further characterize the chemical and radiological parameters in the groundwater in the upper water-bearing zone in this area, and evaluate the presence of organic parameters at revised reporting limits.
OW12B - East of the IWCS and south of cluster OW11	GWOW12B-804	10/2/00 Phase 2	N	12.20	Upper	Radiological Parameters[1]	Further characterize radiological parameters in the upper water-bearing zone southeast of the IWCS.
OW13A – South of the IWCS and west of cluster OW07	GWOW13A-805	10/1/00 Phase 2	N	41.10	Lower	Radiological Parameters[1]	Further characterize radiological parameters in the lower water-bearing zone south of the IWCS.
	GWOW13A-3294	5/31/03 Phase 3	N	41.10	Lower	Radiological Parameters[2]	Previous samples collected from OW07A and A56 indicated the presence of radiological parameters (radium-226 and thorium isotopes). This well was resampled to further characterize the chemical and radiological parameters in the groundwater in the lower water-bearing zone in this area and investigate the potential connectivity between the upper and lower water-bearing zones.
OW13B – South of the IWCS and west of cluster OW07	GWOW13B-3267	5/14/03 Phase 3	N	14.00	Upper	Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	Previous samples collected from OW07A and A56 indicated the presence of radiological parameters (radium-226 and thorium isotopes). This well was not previously sampled and was sampled to further characterize the chemical and radiological parameters in groundwater the upper water-bearing zone in this area.
OW14B – West of the northwest corner of the IWCS and west of cluster OW02	GWOW14B-3268	5/15/03 Phase 3	N	15.10	Upper	Radiological Parameters[2] VOCs, SVOCs, PAHs Pesticides and PCBs, Metals, Nitroaromatics	Previous samples collected from OW02B indicated the presence of radiological parameters (radium-226). This well was not previously sampled and was sampled to further characterize the chemical and radiological parameters in groundwater in the upper water-bearing zone at the property boundary.
OW15B - West of the IWCS and west of A42	GWOW15B-806	9/30/00 Phase 2	N	12.00	Upper	Radiological Parameters[1]	Previous samples collected from OW02B, A42 and A43 indicated the presence of radiological activity. This well was sampled to further characterize the extent of radionuclides in the upper water-bearing zone near the property boundary.
	GWOW15B-3288	5/13/03 Phase 3	N	12.00	Upper	Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics, Miscellaneous Parameters[4]	This well was resampled as a part of the environmental surveillance program to confirm previous results, further characterize the chemical and radiological parameters in the groundwater in the upper water-bearing zone at the property boundary, and evaluate the presence of organic parameters at revised reporting limits.
OW16A – West of the IWCS and west of A43	GWOW16A-3269	5/16/03 Phase 3	N	45.20	Lower	Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	Previous samples collected from A43 indicated the presence of radiological parameters. This well was not previously sampled and was sampled to further characterize the chemical and radiological compounds in the groundwater in the lower water-bearing zone at the property boundary, and investigate the connectivity between the upper and lower water-bearing zones.

Table 3-15
Summary of Samples Collected from New and DOE Installed Groundwater Monitoring Wells and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	New Well Y/N	Well Depth TOC (ft)	Water-Bearing Zone	Analysis Parameters*	Rationale for Sample Location and Analysis
OW16B – West of the IWCS and west of A43	GWOW16B-3270	5/17/03 Phase 3	N	13.20	Upper	Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	Previous samples collected from A43 indicated the presence of radiological parameters. This well was not previously sampled and was sampled to further characterize the chemical and radiological compounds in the groundwater in the upper water-bearing zone at the property boundary.
OW17A – West of the IWCS and west of A54	GWOW17A-289	1/10/00 Phase 1	N	42.50	Lower	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the lower water-bearing zone along the western boundary of the NFSS west of the IWCS.
OW17B – West of the IWCS and west of A54	GWOW17B-3292	5/14/03 Phase 3	N	16.90	Upper	Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics, Miscellaneous Parameters[4]	This well, not previously sampled for the RI, was sampled as a part of the surveillance program and to evaluate the presence or absence of chemical and radiological parameters in the upper water-bearing zone along the western boundary of the NFSS west of the IWCS.
OW18A – West of the IWCS and west of A55	GWOW18A-3271	5/18/03 Phase 3	N	47.80	Lower	Radiological Parameters VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters in the lower water-bearing zone along the western boundary of the NFSS west of the IWCS.
OW18B – West of the IWCS and west of A55	GWOW18B-3272	5/18/03 Phase 3	N	16.60	Upper	Radiological Parameters VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence or absence of chemical and radiological parameters along the western boundary of the NFSS west of the IWCS.
MW860 – East of the IWCS, between A45, A50 and A51	GW-MW860-3598	9/30/03 Phase 3	Y	23.00	Upper	Radiological Parameters[2] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals	Samples collected from A50 and A45 located northwest of this location contained radiological parameters. This well was installed and sampled to further evaluate the extent of the chemical and radiological compounds and the presence or absence of other organic and inorganic parameters.
MW861 - East of the IWCS, between A45, A50 and A51	GW-MW861-3601	10/1/03 Phase 3	Y	42.25	Lower	Radiological Parameters[2] VOCs, SVOCs, PAHs Pesticides and PCBs, Metals	Samples collected from A50, andA45 located northwest of this location contained radiological parameters. This well was installed and sampled to further evaluate the extent of the chemical and radiological compounds and the presence or absence of other organic and inorganic parameters.
MW862 – East of the IWCS, between A23A, A50 and A51	GW-MW862-3604	10/2/03 Phase 3	Y	21.95	Upper	Radiological Parameters[2] VOCs, SVOCs, PAHs Pesticides and PCBs, Metals	Samples collected from OW11B located northeast of this location contained radiological parameters. This well was installed and sampled to further evaluate the extent of the chemical and radiological compounds and the presence or absence of other organic and inorganic parameters southeast of the IWCS.
MW863 - East of the IWCS, between A23A, A50 and A51	GW-MW863-3607	10/2/03 Phase 3	Y	42.15	Lower	Radiological Parameters[2] VOCs, SVOCs, PAHs Pesticides and PCBs, Metals	Samples collected from OW11B located northeast of this location contained radiological parameters. This well was installed and sampled to further evaluate the extent of the chemical and radiological compounds and the presence or absence of other organic and inorganic parameters southeast perimeter IWCS.
BH12 – East of Campbell St. and adjacent to BH59.	GWBH12-252	1/8/00 Phase 1	N	95.00	Lower	Radiological Parameters VOCs, SVOCs, Metals	Evaluate the presence, absence and migration of chemical and radiological parameters south of the IWCS near the NFSS southern boundary.

Table 3-15
Summary of Samples Collected from New and DOE Installed Groundwater Monitoring Wells and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	New Well Y/N	Well Depth TOC (ft)	Water-Bearing Zone	Analysis Parameters*	Rationale for Sample Location and Analysis
BH59 – East of Campbell St. and adjacent to BH12.	GWBH59-272	1/10/00 Phase 1	N	40.50	Lower	Radiological Parameters VOCs, SVOCs, Metals	Evaluate the presence, absence and migration of chemical and radiological parameters south of the IWCS near the NFSS southern boundary.
MW215A – Northeast of Building 401, east of Campbell St., approximately 10 ft. from TWP215	GW215A-776	9/28/00 Phase 2	Y	10.00	Upper	Radiological Parameters[1] (No Alpha/Beta collected)	Further evaluate the extent of the uranium isotopes found in the groundwater at TWP215 installed near a concrete vault.
	GW215A-3252	5/31/03 Phase 3	Y	10.00	Upper	Radiological Parameters VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	Previous samples collected from this well indicated the presence of radiological parameters. This well was resampled to confirm the previous results, further characterize the chemical and radiological compounds in the groundwater in the upper water-bearing zone near Building 401 and evaluate the presence of organic parameters at revised reporting limits.
MW201A - 10 ft from TWP201, south of Building 401 and north of a former sludge bed associated with Building 401	GW201A-773	9/28/00 Phase 2	Y	15.00	Upper	Radiological Parameters[1] VOCs	Evaluate the extent of TCE and the uranium isotopes found in the groundwater at TWP201. USTs and solvent and paint storage buildings were located near this location.
	GW201A-3250	5/29/03 Phase 3				All above parameters plus: SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	Previous samples collected from this well indicated the presence of VOCs and radiological parameters. This well was resampled to confirm the previous results, further characterize the chemical and radiological compounds in the groundwater and evaluate the presence of organic parameters at revised reporting limits.
MW203A – South of Building 401, within 10 ft. of TWP203 and north of the former sludge bed	GW203A-774	9/29/00 Phase 2	Y	15.00	Upper	Radiological Parameters[1] VOCs	Evaluate the extent of the VOCs and radiological parameters found in the groundwater at TWP203. Associated USTs and solvent and paint storage buildings were located near Building 401.
	GW203A-3251	5/30/03 Phase 3				All above parameters plus: SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics	Previous samples collected from this well indicated the presence of VOCs and radiological parameters. This well was resampled to confirm the previous results, investigate other non-radiological compounds and evaluate the presence of organic parameters at revised reporting limits.
MW213A – North of Building 401 and the power transformer station, approximately 10 ft. from TWP213	GW213A-775	9/29/00 Phase 2	Y	15.00	Upper	Radiological Parameters[1] VOCs, Metals	Further evaluate the extent of the VOCs and radiological and metal parameters found in the groundwater at TWP213.
	GW213A-3281	5/20/03 Phase 3				All above parameters plus: SVOCs, PAHs, Pesticides and PCBs, Nitroaromatics, Miscellaneous Parameters[4] (No TDS or alkalinity)	Previous samples collected from this well indicated the presence of VOCs and metals and radiological parameters. This well was resampled to confirm the previous results, investigate other non-radiological compounds and evaluate the presence of organic parameters at revised reporting limits.
BH48 – Southern perimeter of NFSS, east of TWP815	GWBH48-265	1/5/00 Phase 1	N	44.00	Lower	Radiological Parameters VOCs, SVOCs, Metals	Evaluate the presence, absence and migration of chemical and radiological parameters at the NFSS boundary. Analytical parameters were selected based on historical activities near Building 401 located north of this well.
GW816 – Extreme southeast corner of	GW816-789	9/28/00 Phase 2	Y	15.00	Upper	Radiological Parameters[1] SVOCs, Metals	Further evaluate the presence or absence of chemical and radiological parameters near the southeast NFSS boundary.

Table 3-15
Summary of Samples Collected from New and DOE Installed Groundwater Monitoring Wells and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Date Collected	New Well Y/N	Well Depth TOC (ft)	Water-Bearing Zone	Analysis Parameters*	Rationale for Sample Location and Analysis
the NFSS	GW816-3282	5/18/03 Phase 3				All above parameters plus: VOCs, PAHs, Pesticides and PCBs, Nitroaromatics, Miscellaneous Parameters[4] (No TDS or alkalinity)	Previous samples collected from this well indicated the presence of SVOCs and metals and radiological parameters. This well was resampled to confirm the previous results, investigate other non-radiological compounds and further characterize the groundwater.
MW228 – East of Campbell St. and south of Building 401	GW-MW228-3616	10/5/03 Phase 3	Y	20.25	Upper	Radiological Parameters[1] VOCs, SVOCs, PAHs, Pesticides and PCBs, Metals, Nitroaromatics, Miscellaneous Parameters[4]	Samples collected from MW201A and MW203A indicated the presence of VOCs and radiological parameters. This well was installed and sampled to evaluate the presence or absence of chemical and radiological parameters south of MW201A and MW203A.
MW229 - East of Campbell St. and south of Building 401	GW-MW229-3619	10/6/03 Phase 3	Y	42.30	Lower	Radiological Parameters[2] VOCs, SVOCs, PAHs Pesticides and PCBs, Metals, Nitroaromatics, Miscellaneous Parameters[4]	Samples collected from MW201A and MW203A indicated the presence of VOCs and radiological parameters. This well was installed and sampled to evaluate the presence or absence of chemical and radiological parameters south of MW201A and MW203A.

* Parameters include the Target Analyte and Target Compound Lists shown in Section 2.5. Filtered and unfiltered samples for metals analyses were collected except where noted.
1. Radiological parameters included total uranium and the following isotopes: actinium-227, americium-241, cesium-137, cobalt-60, protactinium-231, radium-228, uranium-235, radium-226, alpha/gamma Th-228, Th-230, Th-232, U-233/234, U-235/236, alpha/gamma U-238, and gross alpha/beta.
2. Filtered and unfiltered samples were collected for total uranium and the following isotopes; actinium-227, americium-241, cesium-137, cobalt-60, protactinium-231, radium-228, uranium-235, radium-226, alpha/gamma Th-228, Th-230, Th-232, U-233/234, U-235/236, alpha/gamma U-238, and gross alpha/beta.
3. Radiological parameters include those listed below and those designated in Footnote 2 plus strontium-90 and plutonium-238 and plutonium-239/240
4. Miscellaneous parameters included gaseous hydrocarbons (methane, ethane, ethene), anions (sulfate, nitrate, nitrite, chloride, fluoride), phosphate, total dissolved solids and total organic carbon.

Table 3-16
Summary of Groundwater Samples Collected and Analyses Performed
LOOW Remedial Investigation

Sample Location (Station ID and EU)	Sample ID	Collection Date	Analyses
C5-VS-D300 EU1	C5-VS-GW-D300	7/20/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs
C5-AC-BP3 EU3	C5-AC-GW-BP3	7/12/1998	General Chemistry, Exposives, Metals, PAHs, Pesticides, SVOCs, VOCs
C5-SO-D800 EU8	C5-SO-GW-D800	7/14/1998	General Chemistry, Exposives, Metals, PAHs, PCBs, Pesticides, SVOCs, VOCs

Table 3-17
Summary of Samples Collected from TWP Locations and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Well Depth (Ft. bgl)	Analysis Parameters*	Rationale for Sample Location and Analyses
TWP501 – Southwest corner of the Baker Smith Area	GW501-229	11/9/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs Pesticides and PCBs Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater near the former welding shop (Building 443) and storehouse (Building 444) where radioactive residue was stored and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this area. No previous groundwater data was obtained near this location.
TWP502 – Central Baker Smith Area, northeast of TWP501	GW502-230	12/2/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs Pesticides and PCBs Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater near the former pipe shop (Building 445) where drums of L-30 and KAPL radioactive wastes were stored and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this area. No previous groundwater data was obtained near this location.
TWP503 - Central portion of the Baker Smith Area	GW503-231	11/17/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs Pesticides and PCBs Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater near the former pipe shop (Building 445) where drums of L-30 and KAPL radioactive wastes were stored and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this area. No previous groundwater data was obtained near this location.
TWP504 - Southeast Corner of Baker Smith Area	GW504-752	9/13/00 Phase 2	18.5	Radiological Parameters[1] SVOCs Metals	Further delineate the extent of the radiological parameters found in TWP503 and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this area.
TWP506 - Northeast Corner of Baker Smith Area	GW506-753	9/15/00 Phase 2	13.5	Radiological Parameters[1]	Further delineate the extent of the radiological parameters found in TWP503, to investigate the presence of organic and inorganic compounds in the groundwater at the NFSS boundary and to provide sufficient and representative data for characterization of this EU.
TWP401 – West of Campbell Street near O St.	GW401-204	11/18/99 Phase 1	20.0	Radiological Parameters VOCs, SVOCs, Metals	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with the two pipes found in the ground during the gamma walkover survey and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil east of this location. No previous groundwater data was obtained from this area.
TWP402 - East of Campbell Street, adjacent to former Building 433	GW402-205	11/17/99 Phase 1	25.0	Radiological Parameters VOCs, SVOCs, Metals	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with two nearby concrete slabs and the former radium vault (located to the north) and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this location. No previous groundwater data was obtained from this area.
TWP403 - East of Campbell Street between N and O St., near former Building 433	GW403-206	11/9/99 Phase 1	20.0	Radiological Parameters VOCs, SVOCs Pesticides and PCBs Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with a former fuel oil storage area and radium vault (Building 433) and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this location. No previous groundwater data was obtained from this area.
TWP404 - East of Campbell Street, between N and O St., near former Building 433	GW404-207	11/9/99 Phase 1	25.0	Radiological Parameters VOCs, SVOCs, Metals	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with a former fuel oil storage area and radium vault and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this location. No previous groundwater data was obtained from this area.

Table 3-17
Summary of Samples Collected from TWP Locations and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Well Depth (Ft. bgl)	Analysis Parameters*	Rationale for Sample Location and Analyses
TWP405 - East of Campbell Street between N and O St, near former Building 433	GW405-208	11/9/99 Phase 1	25.0	Radiological Parameters VOCs, SVOCs, Metals	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with a former fuel oil storage area and radium vault and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this location. No previous groundwater data was obtained from this area.
TWP406 –North of the intersection of N and Campbell Streets	GW406-209	12/2/99 Phase 1	20.0	Radiological Parameters SVOCs Pesticides and PCBs Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with former railroad lines, and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil southeast of this location. No previous groundwater data was obtained from this area.
TWP808 – In an area bounded by Lutts Rd, O St., the Central Ditch and N St.	GW808-243	11/9/99 Phase 1	20.0	Radiological Parameters (Does not include α/β) SVOCs, Metals	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater in an area that has not previously been investigated and to provide sufficient and representative data to characterize the EU. Due to the limited amount of water present in the TWP and very slow recharge, samples were not collected for all of the parameters originally selected for analysis.
TWP809 – East of the Baker Smith Area, north of N St. and east of Lutts Rd.	GW809-244	11/16/99 Phase 1	20.0	Radiological Parameters VOCs, SVOCs Pesticides and PCBs Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater at the property boundary in an area that has not previously been investigated and to provide sufficient and representative data to characterize the EU.
TWP810 – South of N St., 400 feet west Campbell Street.	GW810-245	12/1/99 Phase 1	15.0	Radiological Parameters VOCs, Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater in an area that has not previously been investigated.
TWP822 – North of O St. between TWP401 and TWP808	GW822-765	9/9/00 Phase 2	13.5	Radiological Parameters[1] SVOCs Metals	Further delineate the extent of the uranium isotopes found in TWP808 and TWP401 to investigate the presence or absence of organic and inorganic compounds in the groundwater. No previous groundwater data was obtained at this location.
TWP823 – Northern perimeter of the NFSS, near intersection of N and Campbell Streets	GW823-766	9/14/00 Phase 2	15.0	Radiological Parameters[1]	Further delineate the radium-226 found in TWP406 and TWP810, and to investigate the presence or absence of organic and inorganic compounds in the groundwater in at the NFSS boundary. No previous groundwater data was obtained at this location.
TWP407 – South of N St., east of Campbell Streets, and northeast of former Building 433	GW407-210	11/9/99 Phase 1	20.0	Radiological Parameters SVOCs Metals Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with a hummocky area near former railroad lines, and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil southeast of this location.
TWP313 – Near intersection of O St. and Castle Garden Rd. and east of the combined Shop Area	GW313-747	9/16/00 Phase 2	15.0	Radiological Parameters[1] VOCs SVOCs Pesticides and PCBs	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater at the property boundary near the location of a 1953 explosion and fire east of the NFSS. This location is also south of TWPs 4D010, 417 and 413 where PCBs were identified in the soil.
TWP409 –Acid Area, west of former Buildings 431 and 432 (uranium rod storage)	GW409-212	12/1/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs Pesticides and PCBs Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with sulfuric acid storage and Building 432 and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this location. No previous groundwater data was obtained from this area.

Table 3-17
Summary of Samples Collected from TWP Locations and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Well Depth (Ft. bgl)	Analysis Parameters*	Rationale for Sample Location and Analyses
TWP410 - Acid Area, northwest of former Buildings 431 and 432 (uranium rod storage)	GW410-213	12/3/99 Phase 1	15.0	Radiological Parameters SVOCs, Metals Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater in a hummocky area near former rail lines, tank cradles and Buildings 431 and 432 and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the Acid Area near this location.
TWP411 – Northwest of the intersection of N St. and Castle Garden Rd.	GW411-214	11/18/99 Phase 1	20.0	Radiological Parameters VOCs, SVOCs Pesticides and PCBs Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater along the northern NFSS boundary. This location receives runoff from the CWM property and is north of the Acid Area where organic and inorganic compounds were previously identified (LOOW RI). No previous groundwater data was obtained from this area.
TWP415 - Central Acid Area, north of O Street and east of building 431	GW415-221	12/1/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs Pesticides and PCBs Metals	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater near the former nitric acid concentrator and Buildings 431 and 432 and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this location. No previous groundwater data was obtained from this area.
TWP417 – South-central Acid Area	GW417-223	12/1/99 Phase 1	10.0	Radiological Parameters VOCs, SVOCs Pesticides and PCBs Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater near a concrete slab and potential UST and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this location. No previous groundwater data was obtained from this area.
TWP422 – Southern perimeter of EU along O St., 400 feet east of Castle Garden Rd.	GW422-748	9/11/00 Phase 2	15.0	Radiological Parameters[1]	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater along the southern boundary of the NFSS along the former haul road and rail line for the waste. No previous groundwater data was obtained near this location.
TWP425 – Northeast corner of the EU along the northern NFSS boundary	GW425-751	9/12/00 Phase 2	14.0	Radiological Parameters[1] VOCs Nitroaromatics	Evaluate the presence or absence of radiological and non-radiological compounds in the groundwater along the northern NFSS boundary. No previous groundwater data was obtained near this location.
TWP4D003 – Central Acid Area, west of TWP415	GW4D003-668	9/14/00 Phase 2	18.5	Radiological Parameters[1] VOCs SVOCs Metals Nitroaromatics	Investigate the extent of the VOCs, metals and uranium isotopes found in the groundwater at TWP415 and PCBs found in the soil at TWP417 and Investigate the presence or absence of nitroaromatic compounds at this location.
TWP4D005 - Central Acid Area, south of TWP415	GW4D005-670	9/14/00 Phase 2	18.5	Radiological Parameters[1] VOCs SVOCs	Investigate the extent of the organic compounds and uranium isotopes found in the groundwater at TWP415.
TWP420 – Along O St., 800 feet east of Castle Garden Rd.	GW420-226	11/19/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs, Metals	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with the ammonia manufacturing plant and a 1953 explosion and fire site, and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil west of this location.
TWP423 - Along O St., east of BH60	GW423-749	9/14/00 Phase 2	18.5	Radiological Parameters[1] SVOCs, Metals	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater along the southern boundary of the NFSS along the former haul road and rail line for the K-65 waste and the location of a drum storage and handling area.
TWP424 – Northern perimeter of EU and NFSS, east of BH51	GW424-750	9/11/00 Phase 2	17.0	Radiological Parameters[1]	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater along the northern boundary of the NFSS near the former haul road for the K-65 waste.

Table 3-17
Summary of Samples Collected from TWP Locations and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Well Depth (Ft. bgl)	Analysis Parameters*	Rationale for Sample Location and Analyses
TWP605 – South of O St., south of TWP604	GW605-754	9/12/00 Phase 2	18.5	Radiological Parameters[1] Metals	Further delineate the extent of the uranium isotopes and metals found in TWP603.
TWP602 –North of N St. and southwest of Building 434	GW602-233	11/18/99 Phase 1	16.0	Radiological Parameters VOCs, SVOCs Pesticides and PCBs Metals, Nitroaromatics	Investigate the presence or absence radiological and non-radiological compounds in the groundwater near the former water storage tower where K-65 wastes were stored and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI west of this area. No previous groundwater data was obtained near this location.
TWP603 – Near the former location of Building 434, south of N St.	GW603-234	11/17/99 Phase 1	20.0	Radiological Parameters VOCs, SVOCs Pesticides and PCBs Metals, Nitroaromatics	Evaluate the presence or absence of radiological and non-radiological compounds in the groundwater near the former Building 434 where K-65 wastes were stored and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil west of this area. No previous groundwater data was obtained near this location.
TWP604 - Southeast of TWP603 and former Building 434	GW604-235	11/9/99 Phase 1	15.0	Radiological Parameters SVOCs, Metals	Evaluate the presence or absence radiological and non-radiological compounds in the groundwater near the former Building 434 where K-65 wastes were stored and to evaluate the presence and extent of organic and inorganic compounds previously identified in LOOW RI in the soil west of this area. No previous groundwater data was obtained near this location
TWP607 – East of McArthur St. along the eastern NFSS perimeter	GW607-755	9/12/00 Phase 2	19.0	Radiological Parameters[2] VOCs, SVOCs, Metals	Further delineate the extent of the metals and radiological parameters found in TWP603, and to investigate the presence or absence of organic and inorganic compounds in the groundwater at the NFSS boundary. This sample point is located southwest of the extraction wells for the CWM property.
TWP825 – At NFSS property line, northeast of Building 434	GW825-768	9/12/00 Phase 2	12.0	Radiological Parameters[1] VOCs, SVOCs Pesticides and PCBs Metals	Further delineate the radiological parameters found in TWP 603, and to investigate the presence or absence of organic and inorganic compounds in the groundwater at the NFSS boundary in an area that has not previously been investigated. No previous groundwater data was obtained at this location.
TWP806 – Southwest of the intersection of O and Campbell Streets, north of the IWCS and adjacent to the former dewatering Pond 4	GW806-241	11/9/99 Phase 1	19.5	Radiological Parameters (Does not include gross α/β) VOCs Metals (filtered only)	Investigate the presence, absence and migration of radiological and non-radiological compounds in the groundwater associated with the IWCS and the former DOE dewatering Pond 4. Due to the limited amount of water present in the TWP and very slow recharge, samples were not collected for all of the parameters originally selected for analysis.
TWP807 – Southeast of the intersection of O St. and Lutts Rd., north of the IWCS and within the former DOE organic burial area	GW807-242	11/7/99 Phase 1	21.0	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	Investigate the presence, absence and migration of radiological and non-radiological compounds in the groundwater associated with the IWCS and the former DOE organic burial area. No previous groundwater data was obtained near this location.
TWP820 - North of the IWCS in the DOE area designated as Disposal Area B	GW820-763	9/9/00 Phase 2	22.0	Radiological Parameters[1]	Further delineate the radium-226 found in TWP806 and TWP807 and to confirm previous remediation performed by DOE. Documentation of confirmation sampling was not found during the records search.

Table 3-17
Summary of Samples Collected from TWP Locations and Analysis Performed
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Sample Location	Sample ID	Collection Date	Well Depth (Ft. bgl)	Analysis Parameters*	Rationale for Sample Location and Analyses
TWP821 – Northwest of the IWCS and west of Lutts Rd.	GW821-764	9/9/00 Phase 2	13.5	Radiological Parameters[1]	Confirm previous remediation performed by DOE. Documentation of confirmation sampling was not found during the records search. This location is west of TWP807 that exhibited levels of radium-226. Results of the gamma walkover survey along the western NFSS property boundary indicated that the gamma readings increased toward the property line. No previous groundwater data was obtained from this area.
TWP835 – Northwest of the intersection of Lutts Rd and O St., northwest of the IWCS, north of TWP821	GW-TWP835-3517	9/22/03 Phase 3	17.0	Radiological Parameters[1] VOCs SVOCs PCBs Metals PAHs	Investigate the presence, absence and migration of radiological and non-radiological compounds in the groundwater associated with a former disposal area near this location. No previous groundwater data was obtained near this location.
TWP836 – Northeast of the intersection of Lutts Rd.	GW-TWP836-3520	10/1/03 Phase 3	15.0	Radiological Parameters[1] VOCs SVOCs Pesticides and PCBs Metals PAHs	Characterize the radiological and non-radiological compounds in the groundwater at the former DOE organic burial area and delineate the radium and thorium found in TWP820.
TWP837 – East of TWP807, between O St, Lutts Rd, Campbell St. and the fenced area containing the IWCS	GW-TWP837-3523	9/22/03 Phase 3	20.0	Radiological Parameters[1] VOCs SVOCs Pesticides and PCBs Metals PAHs	Further characterize the radiological and non-radiological compounds in the groundwater at the former DOE dewatering Pond 3 and delineate the radium found in TWP807.
TWP840 – Northeast of the IWCS, south of TWP806, east of TWP807 and west of Campbell St.	GW-TWP840-3532	10/2/03 Phase 3	14.9	VOCs	Further characterize the groundwater associated with the former DOE WWTP (dewatering Pond 4) and delineate the radium present in TWP806. Due to the limited amount of water present in the TWP and very slow recharge, samples were only collected for VOCs.
TWP301 - Southern Shop Area, southeast of the former motor vehicle repair shop and Building 422, and north of the South 16 Ditch	GW301-191	12/4/99 Phase 1	15.0	SVOCs	Investigate the presence or absence of SVOC compounds present at this location. No previous groundwater data was obtained from this area. Due to the limited amount of water present in the TWP and very slow recharge, samples were not collected for all of the parameters originally selected for analysis
TWP302 - West of Castle Garden Road in the southeast corner of the Shop Area, near Buildings 420 and 421 and the former K-65 drum storage area	GW302-192	11/19/99 Phase 1	15.0	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with a nearby concrete rubble pile and the former K-65 drum storage area, to evaluate the extent of organic and organic compounds previously identified in the LOOW RI in the soil near this area and to investigate potential site-related constituents near the property boundary.

Table 3-17
Summary of Samples Collected from TWP Locations and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Well Depth (Ft. bgl)	Analysis Parameters*	Rationale for Sample Location and Analyses
TWP303 - In the central Shop Area, along the south side of Z St., adjacent to the northwest corner of the former gas station and near Building 422	GW303-193	12/2/99 Phase 1	15.0	Radiological Parameters VOCs SVOCs Pesticides and PCBs Metals Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with a possible fuel oil pipeline, UST and former uranium rod storage area and to evaluate the presence and extent of organic and inorganic compounds previously identified in LOOW RI in the soil near this area. No previous groundwater data was obtained from this area.
TWP304 - In the central Shop Area, south of Z St. and east of the former change house	GW304-194	12/2/99 Phase 1	15.0	Radiological Parameters VOCs SVOCs Metals	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with a possible fuel oil pipeline, railroad bed and former uranium rod storage area and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this area. No previous groundwater data was obtained from this area.
TWP306 - In the northeast corner Shop Area, south of O St. and east of the former combined shop building (uranium billet storage)	GW306-196	12/3/99 Phase 1	15.0	Radiological Parameters VOCs SVOCs Metals	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with the combined shop and nearby locomotive shop, to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this area and to investigate potential migration of site-related constituents near the property boundary. No previous groundwater data was obtained from this area.
TWP307 -South of the Building 430 - uranium billet storage	GW307-197	12/4/99 Phase 1	15.0	Radiological Parameters SVOCs Metals	Investigate the presence or absence radiological and non-radiological compounds in the groundwater. No previous groundwater data was obtained from this area.
TWP308 – Shop area, north of Building 430 - uranium billet storage	GW308-198	11/19/99 Phase 1	20.0	Radiological Parameters VOCs, SVOCs Pesticides and PCBs Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with Building 430 and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this area. No previous groundwater data was obtained from this area.
TWP309 –Shop area, north of Building 430 - uranium billet storage	GW309-199	11/19/99 Phase 1	20.0	Radiological Parameters VOCs, SVOCs Pesticides and PCBs Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with Building 430 and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this area. No previous groundwater data was obtained from this area.
TWP310 – Shop Area, south of X St. and near former changes houses	GW310-200	12/3/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs, Metals	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with the change houses and gas station, and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this area. No previous groundwater data was obtained from this area.
TWP311 – Shop Area, north of X St. near the riggers shop (uranium dust stored)	GW311-201	11/19/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs, Pesticides, PCBs, Metals	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with the riggers shop (uranium dust stored) and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this area. No previous groundwater data was obtained from this area.
TWP312 – West side Shop Area, north of Z St. and near the former LOOW service house.	GW312-203	11/19/99 Phase 1	15.0	Radiological Parameters VOCs SVOCs	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with the service house, and to evaluate the presence and extent of organic and inorganic compounds previously identified in the LOOW RI in the soil near this area. No previous groundwater data was obtained from this area.

Table 3-17
Summary of Samples Collected from TWP Locations and Analysis Performed
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Sample Location	Sample ID	Collection Date	Well Depth (Ft. bgl)	Analysis Parameters*	Rationale for Sample Location and Analyses
TWP101 - Western perimeter of NFSS, west of the IWCS	GW101-744	9/9/00 Phase 2	15.0	Radiological Parameters[2]	Evaluate the potential extent and migration of radiological compounds in the groundwater in an area previously remediated by DOE. Documentation of confirmation sampling was not found during the records search. Several radioisotopes were found in SD730, which is located to the south. Results of the gamma walkover survey along the western NFSS property boundary indicated that the gamma readings increased toward the property line. No previous groundwater data was obtained from this area.
TWP102 - Western perimeter of NFSS, west of the IWCS	GW102-745	9/9/00 Phase 2	15.0	Radiological Parameters[2] SVOCs Metals	Evaluate previous remediation of radiological and non-radiological compounds in the area. Documentation of confirmation sampling was not found during the records search. Results of the gamma walkover survey along the western NFSS property boundary indicated that the gamma readings increased toward the property line. No previous groundwater data were obtained from this area.
TWP103 - West of the IWCS	GW103-746	9/9/00 Phase 2	15.0	Radiological Parameters[2] Metals	This purpose of the TWP was to confirm previous remediation of metals and radiological compounds in the area. Documentation of confirmation sampling was not found during the records search. Results of the gamma walkover survey along the western NFSS property boundary indicated that the gamma readings increased toward the property line. No previous groundwater data were obtained from this area.
TWP830A – Adjacent to the southwest corner of the IWCS	GW-TWP830-3502	10/3/03 Phase 3	19.15	Radiological Parameters[1] VOCs, SVOCs Pesticides and PCBs Metals, PAHs	The purpose of the TWP was to evaluate the integrity of the subsurface clay dike near the southern perimeter of the IWCS and the presence or absence of radiological and non-radiological compounds.
TWP831 - South of the IWCS	GW-TWP831-3505	10/3/03 Phase 3	15.0	Radiological Parameters[1] VOCs, SVOCs Pesticides and PCBs Metals, PAHs	The purpose of the TWP was to evaluate the integrity of the subsurface clay dike near the southern perimeter of the IWCS and the presence or absence of radiological and non-radiological compounds.
TWP832 - South of the IWCS	GW-TWP832-3508	10/3/03 Phase 3	20.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides, PCBs, Metals, PAHs	Evaluate the integrity of the subsurface clay dike near the southern perimeter of the IWCS and the presence or radiological and non-radiological compounds.
TWP833 - Southeast of the IWCS	GW-TWP833-3511	10/3/03 Phase 3	15.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Evaluate the integrity of the subsurface clay dike near the southern perimeter of the IWCS and the presence or radiological and non-radiological compounds.
TWP834 - Southeast of the IWCS	GW-TWP834-3514	10/3/03 Phase 3	15.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Evaluate the integrity of the subsurface clay dike near the southern perimeter of the IWCS and the presence or radiological and non-radiological compounds.
TWP838 - Northeast of the IWCS and east of well OW05A	GW-TWP838-3526	9/30/03 Phase 3	19.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Further characterize the presence or absence of radiological and non-radiological compounds within DOE Disposal Area B and delineate the radiological parameters found in TWP820 and wells A45 and A52.
TWP839 - Northeast of the IWCS and well A52	GW-TWP839-3529	9/30/03 Phase 3	20.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Further characterize the presence or absence of radiological and non-radiological compounds in the groundwater near DOE Disposal Area B and delineate the radiological parameters found in TWP820 and wells A45 and A52.
TWP852 – South of IWCS, near former building 409	GW-TWP852-3568	10/1/03 Phase 3	20.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with Building 409.

Table 3-17
Summary of Samples Collected from TWP Locations and Analysis Performed
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Sample Location	Sample ID	Collection Date	Well Depth (Ft. bgl)	Analysis Parameters*	Rationale for Sample Location and Analyses
TWP853 – South of IWCS, near former Building 409	GW-TWP853-3571	10/1/03 Phase 3	20.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with Building 409.
TWP854 – South of IWCS, near former Building 409	GW-TWP854-3574	10/1/03 Phase 3	20.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with Building 409.
TWP855 - South of the IWCS and wells A56 and A57	GW-TWP855-3577	10/1/03 Phase 3	20.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	This TWP was located near a geophysical anomaly. Investigate the presence or absence of or radiological and non-radiological compounds in the groundwater associated with the geophysical anomaly.
TWP856 - West of the IWCS near former Building 409	GW-TWP856-3580	10/2/03 Phase 3	20.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with Building 409.
TWP858 – South of the IWCS near former Building 409	GW-TWP858-3586	10/3/03 Phase 3	20.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with Building 409.
TWP859 -Southwest of the IWCS near former Building 409	GW-TWP859-3589	10/4/03 Phase 3	20.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with Building 409.
TWP2A002 - West of Building 401, west of TWP217	GW2A002-661	9/15/00 Phase 2	15.0	Radiological Parameters[1] VOCs	Investigate the extent of the uranium isotopes found in the groundwater at TWP217 and the VOCs found in TWP201. This location is near Building 401. Associated USTs, a sludge bed and solvent and paint storage buildings were located near Building 401.
TWP2A003 – South-west of Building 401, southwest of TWP201	GW2A003-662	9/14/00 Phase 2	15.0	Radiological Parameters[1] VOCs	Investigate the extent of the TCE and the uranium isotopes found in the groundwater at TWP201 near Building 401. Associated USTs and a solvent and paint storage buildings were located near Building 401. Analytical parameters were selected based on current RI results
TWP801 – South of the IWCS	GW801-236	11/7/99 Phase 1	20.0	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Investigate the presence, absence and migration of radiological and non-radiological compounds in the groundwater south of the cell at the NFSS boundary. This TWP is near an area used by DOE to stockpile soil. No previous groundwater data was obtained near this location.
TWP802 – Southeast the IWCS, near the area called the "lay down area"	GW802-237	11/8/99 Phase 1	20.0	Radiological Parameters SVOCs Metals	Investigate the presence, absence and migration of radiological and non-radiological compounds near the IWCS associated with the former "lay down area".
TWP805 – Northeast of the IWCS, in the area of the former Dewatering Pond 5	GW805-240	11/20/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs, Metals (filtered only), Nitroaromatics	Investigate the presence, absence and migration of radiological and non-radiological compounds in the groundwater near the IWCS and the former DOE WWTP Dewatering Pond 5. No previous groundwater data was obtained near this location due to limited amount of water present in the TWP and very slow recharge; samples were not collected for all planned parameters.
TWP813 – South of the IWCS	GW813-756	9/9/00 Phase 2	15.0	Radiological Parameters[2] Metals	Further define the extent of radium, thorium and metals identified in TWP 801 and investigate the presence, absence and migration of metals in the groundwater south of the IWCS at the NFSS boundary. This TWP is near an area used by DOE to stockpile soil and south of the DOE WWTP and dewatering ponds.

Table 3-17
Summary of Samples Collected from TWP Locations and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Well Depth (Ft. bgl)	Analysis Parameters*	Rationale for Sample Location and Analyses
TWP830 – Near the south-central NFSS property line, east of Campbell St.	GW830-757	9/15/00 Phase 2	15.0	Radiological Parameters[1]	Located in an area with a gamma reading of 215,000 cpm to delineate the presence and extent of radiological compounds in the groundwater associated with the area.
TWP842 – North of South 16 Ditch, west of Campbell St., east of the IWCS	GW-TWP842-3538	9/19/03 Phase 3	10.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Located within the former DOE WWTP (de-watering Pond 5) to further delineate the extent of the radiological parameters found in the soil in trenches TB810 and TB811 and in the groundwater in well OW08B and to Investigate the presence or absence of non-radiological compounds.
TWP844 - South of South 16 Ditch, west of Campbell St., east of the IWCS	GW-TWP844-3544	9/19/03 Phase 3	12.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Located within the former DOE WWTP North Pond to further characterize the presence or absence of radiological and non-radiological compounds in the groundwater within the former WWTP and delineate extent of the radiological parameters found in the soil in trenches TB809 and TB810 and in the groundwater in wells BH70, and OW09B.
TWP845 - South of South 16 Ditch, west of Campbell St., east of the IWCS	GW-TWP845-3547	9/20/03 Phase 3	13.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Located within the former DOE WWTP South Pond to further characterize the presence or absence of radiological and non-radiological compounds in the groundwater within the former WWTP and delineate extent of the radiological parameters found in the soil in trenches TB809 and TB810 and in the groundwater in well BH70.
TWP846 – Southeast of the IWCS, southeast of well OW12B	GW-TWP846-3550	9/20/03 Phase 3	17.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Located within the former DOE area designated as the "laydown area" to characterize the presence or absence of radiological and non-radiological compounds in the groundwater within this area and delineate radium and thorium found in the groundwater in wells BH70 and OW12B.
TWP847 – Southeast of IWCS, south of South 31 Ditch	GW-TWP847-3553	9/20/03 Phase 3	12.5	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Located within the former DOE area designated as the "laydown area" to characterize the presence or absence of organic and inorganic compounds in the groundwater within this area and radium and thorium found in the groundwater in wells BH70 and OW12B.
TWP849 – South of the IWCS and northwest of TWP813	GW-TWP849-3559	9/22/03 Phase 3	20.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Located within the former DOE area designated as the "stockpile area" to characterize the presence or absence of radiological and non-radiological compounds in the groundwater within this area and delineate radiological parameters found in the groundwater inTWP801 and TWP813.
TWP850 - South of the IWCS and southwest of well OW13A	GW-TWP850-3562	9/22/03 Phase 3	20.0	Radiological Parameters[1] (No filtered or unfiltered alpha/beta), VOCs, Total Metals, PAHs	Located within the former DOE area designated as the "stockpile area" to characterize the presence or absence of radiological and non-radiological compounds in the groundwater within this area and delineate extent of the radiological parameters found in the groundwater inTWP801.
TWP851 – Southwest of the IWCS and south of OW13A	GW-TWP851-3565	9/22/03 Phase 3	20.0	Radiological Parameters[1] VOCs, SVOCs, Pesticides and PCBs, Metals, PAHs	Located within the former DOE area designated as the "stockpile area" to characterize the presence or absence of radiological and non-radiological compounds in the groundwater within this area and delineate extent of radiological parameters found in the groundwater inTWP801.
TWP204 - East-southeast of Building 401	GW204-173	12/2/99 Phase 1	10.0	Radiological Parameters[3] VOCs	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with Building 401. A sludge bed, USTs, and solvent and paint storage buildings were also associated with this area. Pieces of coal were found on the ground surface at this location and the area is downgradient of the former sludge bed. No previous groundwater data was obtained from this area.
TWP205 - Southeast of Building 401	GW205-174	11/19/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater along the eastern NFSS boundary. This location is near a former railroad line and potentially receives run-on from Modern Landfill. No previous groundwater data was obtained from this area.

Table 3-17
Summary of Samples Collected from TWP Locations and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Well Depth (Ft. bgl)	Analysis Parameters*	Rationale for Sample Location and Analyses
TWP206 – East of Building 401	GW206-175	11/19/99 Phase 1	13.5	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater along the eastern NFSS boundary. This location is near a former railroad line and potentially receives runoff from Modern Landfill. No previous groundwater data was obtained from this area.
TWP207 - East of Building 401	GW207-176	11/22/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs, Metals	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated a former fuel oil UST that may have been located west of this TWP. Building 401 was used to store radioactive wastes and residues. Associated USTs, a sludge bed, and solvent and paint storage buildings were located near Building 401. No previous groundwater data was obtained from this area.
TWP215 - Northeast of Building 401 and 50' east of Campbell St.	GW215-188	12/2/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs, Metals	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with a concrete vault of unknown origin. This location is near Building 401and was used to store radioactive wastes and residues. Associated USTs, a sludge bed, and solvent and paint storage buildings were located near Building 401. No previous groundwater data was obtained from this area.
TWP2A001 - Northwest of Building 401 and TWP213 and east of TWP215	GW2A001-660	9/14/00 Phase 2	15.0	Radiological Parameters[1] VOCs Metals	Investigate the extent of the uranium isotopes found in the groundwater at TWP215 and metals and VOCs found in TWP213. This location is near Building 401 that was later used to store radioactive wastes and residues. Associated USTs, a sludge bed, and solvent and paint storage buildings were located near Building 401.
TWP2C001 – North of Building 401 and TWP213	GW2C001-664	9/13/00 Phase 2	19.0	Radiological Parameters[1] VOCs, Metals	Investigate the extent of the VOCs and metals in TWP213 and radiological parameters found in the groundwater at TWP215. This location is near Building 401 that was later used to store radioactive wastes and residues. Associated USTs, a sludge bed, and solvent and paint storage buildings were located near Building 401.
TWP201 - South of Building 401	GW201-167	11/19/99 Phase 1	15.0	Radiological Parameters VOCs SVOCs	Evaluate the presence and extent of previously identified TCE in the soil (LOOW RI soil gas survey) in this area and Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with the former sludge bed south of Building 401 and associated USTs and solvent and paint storage buildings.
TWP203 - South of Building 401	GW203-172	11/22/99 Phase 1	15.0	Radiological Parameters VOCs SVOCs	Evaluate the presence and extent of previously identified TCE in the soil (LOOW RI soil gas survey) in this area and Investigate the presence or absence of radiological and non-radiological compounds in the groundwater near Building 401and associated USTS, solvent and paint storage buildings and a sludge bed. No previous groundwater data was obtained from this area.
TWP208 - East of Building 401	GW208-178	11/22/99 Phase 1	20.0	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated a former fuel oil UST, paint shop and emergency generator that were present near this location. This location is near Building 401 that was later used to store radioactive wastes and residues. No previous groundwater data was obtained from this area.
TWP209 - Northeast of Building 401 and adjacent to Building 407	GW209-182	11/22/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with the building foundation for Building 407 (paint shop). Associated USTs and solvent storage buildings were located near this area. No previous groundwater data was obtained from this area.
TWP210 - Northeast of Building 401, north of Building 407	GW210-183	12/1/99 Phase 1	15.0	Radiological Parameters VOCs SVOCs	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with the building foundation for Building 407 (paint shop). No previous groundwater data was obtained from this area.

Table 3-17
Summary of Samples Collected from TWP Locations and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Well Depth (Ft. bgl)	Analysis Parameters*	Rationale for Sample Location and Analyses
TWP211 – North of Building 401 near the former power transformer station	GW211-184	12/1/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with two large USTs located west of the building foundation for Building 407 (paint shop). No previous groundwater data was obtained from this area.
TWP212 - North of Building 401, near the power transformer station	GW212-185	11/19/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs	Evaluate the presence and extent of previously identified TCE (LOOW RI soil gas survey) and to Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with a small concrete pad with potential fill pipes. No previous groundwater data was obtained from this area. Analytical parameters were selected based on historical use.
TWP213 - North of Building 401	GW213-186	11/19/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Evaluate the presence and extent of previously identified TCE (LOOW RI soil gas survey) and to Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with a small concrete pad with potential fill pipes. This location is near Building 401that was later used to store radioactive wastes and residues. Associated USTs and solvent and paint storage buildings were located near Building 401. No previous groundwater data was obtained from this area.
TWP214 - North of Building 401 and the power transformer station	GW214-187	11/19/99 Phase 1	20.0	Radiological Parameters VOCs, SVOCs	Evaluate the presence and extent of previously identified TCE (LOOW RI soil gas survey) and to Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with a small concrete pad with potential fill pipes. This location is near Building 401 that was later used to store radioactive wastes and residues. Associated USTs and solvent and paint storage buildings were located near Building 401. No previous groundwater data was obtained from this area.
TWP216 - Northwest of Building 401	GW216-189	11/19/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs Pesticides and PCBs	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with a potential small UST (shown on facility drawings). This location is near Building 401 that was later used to store radioactive wastes and residues. Associated USTs and solvent and paint storage buildings were located near Building 401. No previous groundwater data was obtained from this area.
TWP217 - Southwest of Building 401	GW217-190	11/20/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Investigate the presence or absence of radiological and non-radiological compounds in the groundwater associated with an area of stressed vegetation and a possible vent for an UST. This location is near Building 401 that was later used to store radioactive wastes and residues. Associated USTs and solvent and paint storage buildings were located near Building 401. No previous groundwater data was obtained from this area.
TWP2B006 – South of Building 401 and TWP201	GW2B006-663	9/16/00 Phase 2	15.0	Radiological Parameters[1] VOCs	Investigate the extent of the TCE and the uranium isotopes found in the groundwater at TWP201. This location is near Building 401that was later used to store radioactive wastes and residues. Associated USTs and solvent and paint storage buildings were located near Building 401.
TWP803 – East of Campbell St. and south of the South 31 Ditch	GW803-238	11/19/99 Phase 1	10.0	Radiological Parameters (Does not include α/β)	Investigate the presence, absence and migration of radiological compounds in the groundwater in an area south of Building 401 that has not previously been investigated and to provide sufficient and representative data to characterize the EU. No previous groundwater data was obtained near this location.
TWP804 – East of Campbell St. southeast of building 401	GW804-239	12/3/99 Phase 1	15.0	Radiological Parameters VOCs, SVOCs, Pesticides and PCBs, Metals, Nitroaromatics	Investigate the presence, absence and migration of radiological and non-radiological compounds in the groundwater near the southeastern NFSS boundary in an area that has not previously been investigated.

Table 3-17
Summary of Samples Collected from TWP Locations and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Well Depth (Ft. bgl)	Analysis Parameters*	Rationale for Sample Location and Analyses
TWP815 - Southern perimeter of the NFSS, west of BH48	GW815-758	9/11/00 Phase 2	15.0	Radiological Parameters[1]	Further delineate the extent of the radiological parameters found in TWP201 and TWP203.
TWP817 - Eastern perimeter of NFSS, south of TWP205	GW817-759	9/12/00 Phase 2	15.0	Radiological Parameters[1]	Further delineate the extent of the radiological parameters found in TWP205.
TWP818 - Southeast of Building 401, between TWP203 and TWP804	GW818-760	9/15/00 Phase 2	13.5	Radiological Parameters[1]	Further delineate the extent of the uranium isotopes found in TWP203.

Parameters:
* Parameters include the Target Analyte and Target Compound Lists shown in Section 2.5. Filtered and unfiltered samples for metals analyses were collected except where noted.
Radiological Parameters includes gross alpha, gross beta, total uranium and the following isotopes: radium-226, thorium-228, thorium-230, thorium-232, uranium-233/234, uranium-235/236 and uranium-238. Additional isotopes added to some samples are listed in footnotes 1 and 2 below.
1. Filtered and unfiltered samples were collected for total uranium, the isotopes listed above plus the following isotopes: actinium-227, americium-241, cesium-137, cobalt-60, protactinium-231, radium-228 and uranium-235.
2. In addition to the radiological isotopes listed above Under "Radiological Parameters", the analysis included the following isotopes: actinium-227, americium-241, cesium-137, cobalt-60, protactinium-231, radium-228 and uranium-235. No filtered samples were collected for radiological parameters.
3. This sample was analyzed for the radiological isotopes listed below and total uranium. Samples for gross alpha and beta were not collected due to the lack of water in the TWP and very slow recharge.

Table 3-18
Background Groundwater Monitoring Wells
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID*	Date Collected	Well Depth TOC (ft)	Water-Bearing Zone
GW2A – Well Cluster GW2 located in the southwestern quadrant of Modern Landfill, southeast of the NFSS on the north side of Pletcher Rd., south of W12 cluster.	GW2A-U-3103	3/11/03	18.35	Upper
GW2B – Well Cluster GW2 located in the southwestern quadrant of Modern Landfill, southeast of the NFSS on the north side of Pletcher Rd., south of W12 cluster.	GW2B-L-3129	3/11/03	29.60	Lower
MW17 – Located on the eastern side of Modern Landfill, east of the NFSS and on the north side of Pletcher Rd., between cluster PZ25 and cluster PZ24.	MW17-L-3116	3/07/03	19.50	Lower
PZ18M – Piezometer Cluster PZ18 located in the southwest corner of Modern Landfill, along the entrance road, north of the power plant and along the fence line for the NFSS.	PZ18M-U-3100	3/04/03	29.30	Upper
PZ18S – Piezometer Cluster PZ18 located in the southwest corner of Modern Landfill, along the entrance road, north of the power plant and along the fence line for the NFSS.	PZ18S-U-3106	3/05/03	12.10	Upper
PZ21D– Piezometer Cluster PZ21 located in the central portion of Modern Landfill, east of the NFSS and west of well W1R2.	PZ21D-L-3121	3/06/03	41.50	Lower
PZ21M – Piezometer Cluster PZ21 located in the central portion of Modern Landfill, east of the NFSS and west of well W1R2.	PZ21M-U-3202	3/12/03	18.40	Upper
PZ21S – Piezometer Cluster PZ21 located in the central portion of Modern Landfill, east of the NFSS and west of well W1R2.	PZ21S-U-3108	3/10/03	12.00	Upper
PZ23S – Piezometer Cluster PZ23 located in the southeastern end of Modern Landfill, east of the NFSS and east of cluster SP3.	PZ23S-U-3110	3/07/03	9.50	Upper
PZ25S – Piezometer PZ25S located on eastern end of Modern Landfill, east of the NFSS and adjacent to SP11D.	PZ25S-U-3107	3/06/03	12.28	Upper
PZ7M – Piezometer cluster PZ7 located in the northeastern corner of Modern Landfill, and north of well W3R.	PZ7M-L-3113	3/06/03	40.90	Lower
PZ8D – Piezometer Cluster PZ8 located in the northeast quadrant of Modern Landfill, east of the NFSS and east of well W3R.	PZ8D-L-3120	3/07/03	41.50	Lower
PZ8M – Piezometer Cluster PZ8 located in the northeast quadrant of Modern Landfill, east of the NFSS and east of well W3R.	PZ8M-L-3117	3/07/03	27.50	Lower
SP14D – Well S14D located on in the west-central portion of Modern Landfill, east of the southeastern corner of the NFSS and east of Piezometer PZ20M.	SP14D-L-3119	3/05/03	44.85	Lower
SP1D – Well Cluster SP1 located in the southwest quadrant of Modern Landfill, southeast of the NFSS and east of the guard house.	SP1D-L-3123	3/11/03	43.70	Lower

Table 3-18
Background Groundwater Monitoring Wells
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID*	Date Collected	Well Depth TOC (ft)	Water-Bearing Zone
SP1M – Well Cluster SP1 located in the southwest quadrant of Modern Landfill, southeast of the NFSS and east of the guard house.	SP1M-L-3115	3/10/03	24.70	Lower
SP2M – Well Cluster SP2 located on the south-central portion of Modern Landfill, southeast of the NFSS and north of cluster SP4.	SP2M-L-3128	3/12/03	18.90	Lower
SP5M – Well Cluster SP5 located on the southern end of Modern Landfill, southeast of the NFSS and northeast of wells W16 and W11.	SP5M-U-3105	3/11/03	17.70	Upper
SP9D – Well Cluster SP9 located in the southwestern corner of Modern Landfill, southeast of the NFSS and east of cluster PZ18 and the entrance rd.	SP9D-L-3122	3/06/03	44.20	Lower
SP9M – Well Cluster SP9 located in the southwestern corner of Modern Landfill, southeast of the NFSS and east of cluster PZ18 and the entrance rd.	SP9M-L-3114	3/04/03	29.90	Lower
W11 – Well located on the southern end of Modern Landfill, southeast of the NFSS and southwest of wells W16 and cluster SP5.	W11-L-3127	3/12/03	33.00	Lower
W12D – Well Cluster W12 located in the southwest quadrant of Modern Landfill, southeast of the NFSS and east of cluster SP13 and the entrance rd.	W12D-L-3125	3/10/03	42.00	Lower
W12 – Well Cluster W12 located in the southwest quadrant of Modern Landfill, southeast of the NFSS.	W12-L-3118	3/08/03	20.00	Lower
W13D – Well Cluster W13 located on in the southwest corner of Modern Landfill, southeast of the NFSS.	W13D-L-3126	3/07/03	40.00	Lower
W14D– Well Cluster located in the southwest corner of Modern Landfill, southeast of the NFSS, west of cluster GW1.	W14D-L-3124	3/12/03	42.50	Lower
W3R – Well located in the northeast quadrant of Modern Landfill, east of the NFSS and west of cluster PZ8.	W3R-L-3112	3/12/03	30.75	Lower

*Analysis Parameters: Total and Dissolved Radiological Parameters, VOC, SVOCs, PAHs, Pesticides, PCBs, Total and Dissolved Metals, Metals, Nitroaromatics, TOC

Radiological Parameters included a filtered and unfiltered sample for: gross alpha, gross beta, total uranium and the following isotopes: actinium-227, americium-241, cesium-137, cobalt-60, protactinium-231, radium-226, radium-228, thorium-228, thorium-230, thorium-232, uranium-233/234, uranium 235, uranium-235/236, uranium-238, and total uranium.

Table 3-19
Justification of Trench Locations
Niagara Falls Storage Site Phase III Remedial Investigation

Trench Number	Area of Investigation	Trench Length (feet)	Trench Depth	Sample Location	Soil Matrices	Justification for Sample Point And Samples Collected
T201	Building 401 Area	40	1 foot at the A end to 5 feet at the B end	Suspect UST West of Building 401	Subsurface	This trench was positioned to investigate the potential presence of a tank adjacent to the west side of Building 401. A large vent was observed at the wall of the building and the vegetation over the top of the potential tank was stressed. A boring was installed at this location during Phase I activities, but it may not have completely defined subsurface conditions. Phase I groundwater results indicated trichloroethylene at 9.5 parts per million in a sample collected approximately 100 feet south of this location. The location of the trench examined a ferrous zone anomaly FZ540 that was reported in the geophysical investigation of the area. TB201-2800-05.0-036: collected above concrete slab (metals, Rad, SVOC, VOC) TB201-2801-01.0-013: collected in fill material (metals, Rad, SVOC, VOC) TB201-2802-01.0-001: collected in fill material (metals, Rad, SVOC, VOC)
T202	Building 401 Area	80	4 feet near the inlet to 7 feet at the southern end	Storm Sewer Inlet / Former Salt Ponds	Subsurface	A storm sewer grated inlet was observed on the south side of Building 401. This trench was positioned to investigate that inlet, its associated piping, and the disturbed area to the south of the inlet (area covered with heavy clayey soil with little grass growing). The location of the trench examined a ferrous zone anomaly FZ540 and metallic zone anomaly 549 that were reported in the geophysical investigation of the area. TB202-2803-05.2-038: collected at random location (metals, Pest/PCB, Rad, SVOC) TB202-2804-03.5-025: collected at random location (metals, Pest/PCB, Rad, SVOC) TB202-2805-03.0-062: pesticide odor (metals, pest/PCB, Rad, SVOC, VOC)
T203	Building 401 Area	65	8 feet	Suspect UST	Subsurface Surface	This trench was positioned to investigate the potential presence of a tank located north of Building 401. The trench was placed along the west side of the concrete pad. A boring was installed at this location during Phase I activities but may not have completely defined subsurface conditions. Concentrations of VOCs and metals were found in the groundwater samples from this area during Phase I. The location of the trench examined a ferrous zone anomaly FZ541 that was reported in the geophysical investigation of the area. TB203-2806-01.0-013: gamma reading above background (metals, Rad, SVOC, VOC) TB203-2807-04.0-058: soil color change (metals, Rad, SVOC, VOC) TS203-2808-020; surface soil sample, debris (metals, Rad, SVOC, VOC)
T204	Building 401 Area	70	5 to10 feet	Spoils pile	Subsurface	This trench was positioned to investigate a spoils pile located southeast of Building 401. TB204-2916-08.0-030; first native soil (Rad) TB204-2917-10.0-035; random, bottom of trench (Rad) TB204-2918-05.0-070; random, bottom of trench (Rad)

Table 3-19
Justification of Trench Locations
Niagara Falls Storage Site Phase III Remedial Investigation

Trench Number	Area of Investigation	Trench Length (feet)	Trench Depth	Sample Location	Soil Matrices	Justification for Sample Point And Samples Collected
T205	Building 401 Area	65	8 feet	Pesticide Odor	Subsurface	This trench was positioned to further investigate the 'pesticide' odor noted in trench T202. TB205-2919-03.0-055; odor (metals, Pest/PCB, Rad, SVOC, VOC) TB205-2920-06.5-060; PID above background (metals, Pest/PCB, Rad, SVOC, VOC) TB205-2921-08.0-001; sand lens (metals, Pest/PCB, Rad, SVOC, VOC)
T301	Shops Area	50	6 feet near the A end and 3 feet along the pipeline	Pipeline and Suspect UST	Subsurface	A pipeline is visible from a former rail line on the property south of "Z" Street. Approximately halfway from the rail line to the street the pipeline becomes buried and potentially ends at a UST. This trench was positioned to investigate the pipeline and suspect UST. The location of the trench examined a ferrous zone anomaly FZ535 that was reported in the geophysical investigation of the area. TB301-2809-03.5-034; bluish-gray staining (metals, Rad, SVOC, VOC) TB301-2810-01.5-003; black staining (metals, Rad, SVOC, VOC) TB301-2811-01.0-029; gamma reading above background (metals, Rad, SVOC, VOC)
T302	Shops Area	110	5 feet below the original ground surface (9 feet total depth)	Debris Pile	Subsurface	This trench was positioned to investigate the debris pile south of "Z" Street and west of Castle Garden Road. The debris pile includes large blocks of concrete. Due to uneven terrain, no gamma walkover activities were performed in the area of this debris pile. The location of the trench examined a ferrous zone anomaly FZ536 that was reported in the geophysical investigation of the area. TB302-2812-08.0-004; sand lens (nitroaromatics, metals, Pest/PCB, Rad, SVOC, VOC) TB302-2813-01.0-042; white powdery substance (nitroaromatics, metals, Pest/PCB, Rad, SVOC, VOC) TB302-2814-06.0-074; sand lens (nitroaromatics, metals, Pest/PCB, Rad, SVOC, VOC)
T303	Shops Area	42	7 feet	Suspect UST	Subsurface Soil	This trench was positioned to investigate the potential presence of a tank located north of a building foundation. The trench was placed along the concrete foundation. The location of the trench was selected to examine a ferrous zone anomaly FZ530 that was reported in the geophysical investigation of the area. TB303-2815-05.0-009; sand lens (Rad, SVOC, VOC) TB303-2816-01.0-016; tar-like substance (Rad, SVOC, VOC) TB303-2817-05.0-033; sand lens (Rad, SVOC, VOC)

Table 3-19
Justification of Trench Locations
Niagara Falls Storage Site Phase III Remedial Investigation

Trench Number	Area of Investigation	Trench Length (feet)	Trench Depth	Sample Location	Soil Matrices	Justification for Sample Point And Samples Collected
T304	Shops Area	73	7 feet	Open Concrete Sump and Pipe	Subsurface Soil	This trench was located to investigate an open concrete sump and potential presence of underground piping in the former garage/maintenance area of the former LOOW. Petroleum staining was observed during collection of the samples from the pipe during the pipeline investigation. The location of the trench examined a ferrous zone anomaly FZ539 that was identified in the geophysical investigation of the area. TB304-2818-01.3-000; black staining (Rad, SVOC) TB304-2819-06.5-023; sand lens (Rad, SVOC) TB304-2820-07.0-073; random (Rad, SVOC)
T305	Shops Area	85	5 feet	Debris Pile	Subsurface Soil	This trench was located to further investigate the debris pile south of "Z" Street and west of Castle Garden Road. TB305-2922-04.0-014; sand lens (Rad) TB305-2923-05.0-050; random (Rad) TB305-2924-05.0-080; random (Rad)
T403	Acidification Area	50	8 feet	Rubble Filled Depression	Subsurface Soil	This trench investigated the rubble filled depression in the former acidification area between "O" Street and "N" Street. The debris pile includes sheet metal and rubble. This area has been called the New Naval Dump. Due to the uneven terrain, no gamma walkover survey was completed in this area. The location of the trench examined a ferrous zone anomaly FZ310 and metallic zone anomaly MZ317 that were identified in the geophysical investigation of the area. TB403-2821-04.0-008; water seep (nitroaromatics, metals, Pest/PCB, Rad, SVOC, VOC) TB403-2822-07.0-024; sand lens (nitroaromatics, metals, Pest/PCB, Rad, SVOC, VOC) TB403-2823-08.0-045; random (nitroaromatics, metals, Pest/PCB, Rad, SVOC, VOC)
T404	Acidification Area	57	1.5 feet at the "B" end to 8 feet at the "A" end	Sewer Line / Potential Debris Area	Subsurface	This trench was positioned to investigate the sewer and underground piping, as well as the potential presence of a debris area in the former acidification area of the former LOOW just south of "N" Street. The trench was located in a hummocky area north of the former sulfuric acid concentrator house. The location of the trench examined ferrous zone anomalies FZ310 and FZ328 that were reported in the geophysical investigation of the area. TB404-2824-03.3-005; random (Pest/PCB, Rad, SVOC) TB404-2825-06.2-021; adjacent to pipe (Pest/PCB, Rad, SVOC) TB404-2856-02.3-028; adjacent to pipe (Pest/PCB, Rad, SVOC)

Table 3-19
Justification of Trench Locations
Niagara Falls Storage Site Phase III Remedial Investigation

Trench Number	Area of Investigation	Trench Length (feet)	Trench Depth	Sample Location	Soil Matrices	Justification for Sample Point And Samples Collected
T406	Acidification Area	60	5 feet below original ground surface (7 feet total)	Rubble Filled Depression	Subsurface	This trench investigated the debris pile south of "N" Street and west of Castle Garden Road cut-through in the former acidification area. The debris pile includes PVC and steel pipes, rubble, and gray foam products. The location of the trench examined ferrous zone anomalies FZ333 and FZ328 that were reported in the geophysical investigation of the area. TB406-2826-07.0-043; sand lens (nitroaromatics, metals, Pest/PCB, Rad, SVOC, VOC) TB406-2827-02.0-027; oily gravel (nitroaromatics, metals, Pest/PCB, Rad, SVOC, VOC) TB406-2828-01.0-010; adjacent to pipe (nitroaromatics, metals, Pest/PCB, Rad, SVOC, VOC)
T408	Acidification Area	60	5 feet below original ground surface (7 feet total)	Debris Pile	Surface Subsurface	This trench investigated the debris pile south of "N" Street and east of Castle Garden Road cut-through in the former acidification area. The debris pile includes rubble and asphalt roofing materials. The location of the trench examined a ferrous zone anomaly FZ328 that was reported in the geophysical investigation of the area. TS408-2860-007; random (asbestos, Rad) TB408-2829-02.7-005; random (nitros, metals, Pest/PCB, Rad, SVOC, VOC) TB408-2830-03.9-021; random (nitros, metals, Pest/PCB, Rad, SVOC, VOC) TB408-2831-04.7-054; random (nitros, metals, Pest/PCB, Rad, SVOC, VOC)
T410	Acidification Area	65	6 feet	Suspect UST	Subsurface	This trench was positioned to investigate the potential presence of a tank located northwest of a building foundation south of "N" Street. This trench was excavated on the western edge of the slab. The location of the trench examined an unnamed conductive zone anomaly that was reported in the geophysical investigation of the area. TB410-2832-06.0-008; random (Rad, SVOC, VOC) TB410-2833-02.0-035; random (Rad, SVOC, VOC) TB410-2834-04.0-055; random (Rad, SVOC, VOC)
T411	Acidification Area	65	7 feet	Disturbed Ground in former Storage Area	Subsurface	This trench was positioned to investigate the soils at the western end of the acidification area that were reportedly remediated. This area has been called the New Naval Dump. Manhole MH18 was also in this area, but it has been destroyed or covered. Bars of radioactive material had been located in a vault south of this area. It appears that the soil surrounding the trench location has been disturbed. No confirmatory sampling results were found during the Phase I literature search. The location of the trench examined ferrous zone anomalies FZ310 and conductive zone anomaly CZ316 that were reported in the geophysical investigation of the area. TB411-2835-05.0-028; sand lens (Rad) TB411-2836-01.5-034; elevated gamma reading (Rad) TB411-2837-01.5-052; elevated gamma reading (Rad)

Table 3-19
Justification of Trench Locations
Niagara Falls Storage Site Phase III Remedial Investigation

Trench Number	Area of Investigation	Trench Length (feet)	Trench Depth	Sample Location	Soil Matrices	Justification for Sample Point And Samples Collected
T412	Acidification Area	65	7 feet	Disturbed Ground in former Storage Area	Subsurface	This trench was positioned to investigate the soils at the western end of the acidification area that were reportedly remediated. This area has been called the New Naval Dump. Manhole MH18 was also in this area, but it has been destroyed or covered. Bars of radioactive material had been located in a vault south of this area. It appears that the soil surrounding the trench location has been disturbed. No confirmatory sampling results were found during the Phase I literature search. The location of the trench examined ferrous zone anomaly FZ310 and metallic anomaly MZ317 that were reported in the geophysical investigation of the area. TB412-2838-05.0-050; first native soil (Rad) TB412-2839-05.0-034; sand lens (Rad) TB412-2840-04.0-025; white nodules (Rad)
T413	Acidification Area	90	10 feet	Disturbed Ground in former Storage Area	Subsurface	This trench was positioned to investigate the area where bars of radioactive material were stored in a vault at the western end of the acidification area. This area has been called the New Naval Dump. It appears that the soil surrounding the trench location has been disturbed and/or previously remediated. Videos of this area indicate that this was the general asbestos burial area for the NFSS. No confirmatory sampling results were found during the Phase I literature search. The location of the trench examined a metallic zone anomaly MZ317 that was reported in the geophysical investigation of the area. TB413-2841-09.0-050; sand lens (Rad) TB413-2842-03.0-019; white nodules (Rad) TB413-2843-03.0-015; under pipe (Rad)
T414	Acidification Area	50	10 feet	Near Large Concrete Foundation near former Storage Area	Subsurface	This trench was positioned to investigate piles of debris on the west side of a concrete foundation at the western end of the acidification area. Bars of radioactive material were located in a vault west of this area. It appears that the soil surrounding the trench location has been disturbed and/or previously remediated. No confirmatory sampling results were found during the Phase I literature search. The trench was located adjacent to the foundation slab. No gamma walkover survey was conducted in this area. The location of the trench examined ferrous zone anomaly FZ328 that was reported in the geophysical investigation of the area. TB414-2844-05.5-004; stained soil (Rad, SVOC) TB414-2845-08.0-040; stained soil (Rad, SVOC) TB414-2846-01.0-043; fibrous white material (Rad, SVOC)

Table 3-19
Justification of Trench Locations
Niagara Falls Storage Site Phase III Remedial Investigation

Trench Number	Area of Investigation	Trench Length (feet)	Trench Depth	Sample Location	Soil Matrices	Justification for Sample Point And Samples Collected
T501	Baker Smith Area	150	5 feet	Among the Foundations in the Central Portion of the Area	Subsurface	This trench was located to investigate several areas on an east-west trending line across the area. Various foundations are located near the line of the trench. Gamma readings above background in surface and subsurface samples were noted during the soil sample collection after the gamma walkover. The location of the trench examined conductive zone anomalies CZ208 and CZ217, metallic zone anomaly MZ207, and ferrous zone anomaly FZ220 that were reported in the geophysical investigation of the area. TB501-2847-01.5-130; debris (metals, Rad, SVOC) TB501-2848-03.0-095; gravel fill (metals, Rad, SVOC) TB501-2849-02.7-068; random (metals, Rad, SVOC)
T802	Historically Uninvestigated Area	230 (N-S) 198 (E-W)	7 feet 3 – 7 feet	Former Disposal Area	Subsurface	This trench was positioned to investigate the former disposal area located north of the IWCS. TB802-2901-04.2-008; debris (metals, Pest/PCB, Rad, SVOC) TB802-2902-04.0-018; debris (metals, Pest/PCB, Rad, SVOC) TB802A-2903-03.8-096; gamma reading above background (metals, Pest/PCB, Rad, SVOC, VOC)
T808	Historically Uninvestigated Area	45 (N-S) 60 (E-W)	10 feet 4 feet	Organic Burial Area	Subsurface	The location of this trench was selected to investigate the organic burial area north of the IWCS. Some of the material in the organic burial area trench may have been partially burned prior to placement. No anomalies were reported in the geophysical investigation of the area. TB808-2850-04.5-016; chip with gamma above background (nitroaromatics, metals, Pest/PCB, Rad, SVOC, VOC) TB808-2851-01.5-020; fill (nitroaromatics, metals, Pest/PCB, Rad, SVOC, VOC) TB808-2852-01.5-016; fill (nitroaromatics, metals, Pest/PCB, Rad, SVOC, VOC)
T809	Historically Uninvestigated Area	50	4 feet	Former Water Storage Area	Subsurface Surface	The location of this trench was to investigate the area of the former water storage pits located north of the Hittman Building. TS809-2904-001; random (Pest/PCB, Rad) TS809-2905-007; gamma reading above background (Rad) TB809-2906-01.0-045; gamma reading above background (Rad)
T810	Historically Uninvestigated Area	55	6 feet	Former Water Storage Area	Subsurface	The location of this trench was to investigate the area of the former water storage pits located north of the Hittman Building. TB810-2907-02.9-012; fill (metals, Pest/PCB, Rad, SVOC, VOC) TB810-2908-01.8-041; gamma reading above background (metals, Pest/PCB, Rad, SVOC, VOC) TB810-2909-05.8-045; sand lens (metals, Pest/PCB, Rad, SVOC, VOC)

Table 3-19
Justification of Trench Locations
Niagara Falls Storage Site Phase III Remedial Investigation

Trench Number	Area of Investigation	Trench Length (feet)	Trench Depth	Sample Location	Soil Matrices	Justification for Sample Point And Samples Collected
T811	Historically Uninvestigated Area	53	7 feet	Former Water Storage Area	Subsurface	The location of this trench was to investigate the area of the former water storage pits located north of the Hittman Building. TB811-2910-04.8-044; first native soil (metals, Pest/PCB, Rad, SVOC, VOC) TB811-2911-02.3-012; debris (metals, Pest/PCB, Rad, SVOC) TB811-2912-04.0-047; sand lens (metals, Past/PCB, Rad, SVOC)
T812	Historically Uninvestigated Area	62	5 feet	Southern Perimeter of NFSS	Surface Subsurface	The location of this trench was to investigate a gamma reading above background found during the Gamma Walkover Survey. TS812-2928-062; asphalt sample (Rad) TB812-2913-03.0-055; first native soil (metals, Pest/PCB, Rad, SVOC) TB812-2914-03.0-014; gamma reading above background (metals, Pest/PCB, Rad, SVOC) TB812-2915-05.0-001; random (metals, Pest/PCB, Rad, SVOC)
T813	Historically Uninvestigated Area	40	4 feet	Southern Perimeter of NFSS	Subsurface	The location of this trench was to investigate a gamma reading above background reported in the Gamma Walkover Survey. TB813-2925-08.0-013; gamma reading above background (Rad) TB813-2926-01.0-021; random (Rad) TB813-2927-03.9-029; random (Rad)

Table 3-20
Summary of Manhole Samples Collected and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Manhole Number	Area of Investigation/ Sewer System	Manhole Location	Depth to Water (inches)[1]	Depth to Invert (inches)[1]	Comments	Matrix/ Date Collected/ Sample ID	Analytical Parameters
MH-01	Building 401, Sanitary Sewer	North of Building 401 Upstream manhole: none Downstream manhole: MH-09	56	72	Clear water. Insufficient amount of sediment present to sample. Primary sewer connection for Building 401.	Water, 05-16-01 MH01W-2000	Metals-total Metals-dissolved Radionuclides SVOC
MH-02	Building 401, Storm Sewer	Storm Sewer grated manhole located south of Building 401. Upstream manhole: none Downstream manhole: none	12	15.5	It is not known if this sewer segment is connected to other lines or discharges to an outfall. An outfall has not been identified. This manhole is near Boring 203, where 1,120 pCi/g of radium was detected.	Water, 05-21-01 MH02W-2001 Sediment, 05-23-01 MH02S-2002	Metals-total Metals-dissolved Radionuclides SVOC
MH-03	Building 401, Sanitary Sewer	Manhole to 12' x 12' concrete box marked as sanitary sewer (sump or water valve location), west of Campbell St and northeast of former Building 403. Upstream manhole: none Downstream manhole: none	46.125	72	Sediment depth: approx. 2" Clear water. Sediment color was gray.	Water, 05-16-01 MH03W-2004 Sediment, 05-20-01 MH03S-2005	Metals-total Metals-dissolved Radionuclides SVOC
MH-04	Building 401. Sanitary Sewer	Manhole to 8' octagonal concrete box marked as sanitary sewer (sump or water valve location) located west of Campbell St northeast of former Building 403. Upstream manhole: none Downstream manhole: none	56.25	84	Sediment depth: approx. 1" Clear water. Sediment color was gray.	Water, 05-17-01 MH04W-2006 Sediment, 05-20-01 MH04S-2007	Metals-total Metals-dissolved Radionuclides SVOC
MH-05	Building 401 Water Line	Manhole to concrete box located east of Campbell St northwest of Building 401. Upstream manhole: none Downstream manhole: none	43.25	99	Water in manhole exhibited sheen and little sediment was noted.	Water, 05-16-01 MH05W-2008	VOC Metals-total Metals-dissolved Radionuclides SVOC
MH-06	IWCS Sanitary Sewer	North of the South 31 Ditch. Near the confluence of the South 31 and Central Ditches Upstream manhole: MH-07 Downstream manhole: MH-09	84.25	86	The lower section of this manhole was filled with concrete. No sediment present. Water in this manhole is murky brown. A pipe was observed heading west from this manhole towards the former fresh water treatment plant for the LOOW (now included in the IWCS).	Water, 05-17-01 MH06W-2009	Radionuclides PCB VOC
			84		Resample to confirm the presence of elevated uranium isotopes in the initial sample and provide additional data.	Water, 09-18-03 MH06W-3681	Radionuclides[2] TDS TSS

Table 3-20
Summary of Manhole Samples Collected and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Manhole Number	Area of Investigation/ Sewer System	Manhole Location	Depth to Water (inches)[1]	Depth to Invert (inches)[1]	Comments	Matrix/ Date Collected/ Sample ID	Analytical Parameters
MH-07	IWCS Sanitary Sewer	East of the Central Ditch and southeast of the IWCS. Upstream manhole: MH-08 Downstream manhole: MH-06	50	112	Water and approximately 6" of gray sediment was noted.	Water, 05-17-01 MH07W-2011 Sediment, 05-20-01 MH07S-2012	Radionuclides
			59		Water depth: 3.90' Sediment depth: approx. 7" Resampled to confirm the previous results and provide additional data.	Water, 09-17-03 MH07W-3683 Sediment, 09-17-03 MH07S-3682	Radionuclides[2] TDS TSS
MH-08	IWCS Sanitary Sewer	West of the Central Ditch and southeast of the IWCS. Upstream manhole: off the NFSS property to the south Downstream manhole: MH-07	51.75	121	Water exhibited a sheen. Sediment depth: approx. 4".	Water, 05-17-01 MH08W-2013 Sediment, 05-13-01 MH08S-2015	Radionuclides Metals-total Metals-dissolved VOC SVOC
			63		Water depth: 4.15'. Sediment depth: approx. 8" Resampled to confirm the presence of elevated uranium isotopes in the initial sample and provide additional data.	Water, 09-18-03 MH08W-3685 Sediment, 09-18-03 MH08S-3684	Radionuclides[2] TDS TSS
MH-09	DOE WWTP, Sanitary Sewer	Northeast of Building 429 and northwest of former Building 403. Manhole buried under 1.75" of soil. Upstream manholes: MH-06 and MH-01 Downstream manhole: MH-10	81	121.5	Water exhibited a sheen Sediment depth: approx. 7".	MH09W-2016 05-18-01 MH09S-2017 06-13-01	VOC Radionuclides Metals-total Metals-dissolved SVOC PCB
MH-10	DOE WWTP Sanitary Sewer	North of the South 16 Ditch and west of Campbell St. Upstream manhole: MH-09 Downstream manhole: MH-11	77	99	The lower section of this manhole was filled with concrete. Water in this manhole is murky brown and little sediment was present. Top of manhole was damaged. Water may be infiltrate from surface.	Water, 05-17-01 MH10W-2018	Radionuclide SVOC

Table 3-20
Summary of Manhole Samples Collected and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Manhole Number	Area of Investigation/ Sewer System	Manhole Location	Depth to Water (inches)[1]	Depth to Invert (inches)[1]	Comments	Matrix/ Date Collected/ Sample ID	Analytical Parameters
MH-12	Shop Area, Sanitary Sewer	East of Campbell St and halfway between X and Z Streets. This manhole was completely buried under soil. Upstream manhole: MH-44 Downstream manhole: MH-11	19.25	96.5	Water in the manhole has a sheen. Sediment depth: 6" Sediment gray in color. Manhole exhibited a septic odor.	Water, 05-18-01 MH12W-2019 Sediment, 05-21-01 MH12S-2020	VOC Radionuclides Metals-total Metals-dissolved SVOC
MH-13	Acid Area, Storm Sewer	West of Campbell St and north of O Street. Upstream manhole: MH-29 Downstream: Outfall-01	Dry	57	Manhole had leaf litter over a layer of gravel and sediment was present below a gravel layer. Sample collected from below gravel. This location potentially drained the former radium storage vault in the western Acid area.	Sediment, 05-20-01 MH13S-2021	Radionuclides SVOC
MH-15	Acid Area, Storm Sewer	East of Campbell St and south of N Street. Upstream manhole: MH-17 Downstream: Outfall-02	42.5	51.5	Sediment Depth: approx. 0.25" (insufficient to sample)	Water, 05-17-01 MH15W-2023	Radionuclides SVOC
MH-16	Acid Area, Sanitary Sewer	Sanitary Sewer manhole located west of Campbell St and between N and O Streets. Upstream manhole: MH-14 Downstream manhole: off of NFSS property to the north	102.75	178	Sediment Depth: approx. 0.5" Bricks present in manhole.	Water, 05-18-01 MH16W-2024 Sediment, 05-22-01 MH16S2026	Radionuclides SVOC Metals-total Metals-dissolved Nitroaromatics
MH-19	Acid Area, Sanitary Sewer	Sanitary Sewer manhole located east of Campbell St and between N and O Streets along unnamed north/south trending road. Upstream manhole: MH-31 Downstream manhole: MH-16	Dry	88	Manhole lid not present. Sediment appeared to consist of leaf litter. Manhole may have been filled with concrete.	Sediment, 05-22-01 MH19S-2028	Radionuclides SVOC Nitroaromatics
MH-22	Acid Area, Storm Sewer	South of N Street in central portion of Acid Area. Upstream manhole: none Downstream manhole: possibly MH-40	Dry	21	Sediment sample appeared to consist of leaf litter and detritus. VOCs present in nearby soil and groundwater samples.	Sediment, 05-22-01 MH22S-2029	SVOC Radionuclides VOC

Table 3-20
Summary of Manhole Samples Collected and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Manhole Number	Area of Investigation/ Sewer System	Manhole Location	Depth to Water (inches)[1]	Depth to Invert (inches)[1]	Comments	Matrix/ Date Collected/ Sample ID	Analytical Parameters
MH-24	Acid Area, Storm Sewer	South of N Street in the central Acid area. Upstream manhole: none Downstream manhole: MH-23	Dry	46	Sediment depth: 0.25” This location is near haul routes for the former K-65 waste	Sediment, 05-22-01 MH24S-2031	Radionuclides SVOC
MH-26	Acid Area, Storm Sewer	North of O Street. Upstream manhole: MH-25 Downstream manhole: MH-27	49.25	56.5	PCBs present in nearby soil samples (413, 417, and 4D010). Not enough sediment present to sample.	Water, 05-18-01 MH26W-2032	Radionuclides PCB Metals-total Metals-dissolved
MH-29	Acid Area, Storm Sewer	Northeast of the intersection of O Street and Campbell Street. Upstream manhole: MH-28 Downstream manhole: MH-13	Dry	38	The west side of this manhole has collapsed and the bottom of the manhole was filled with soil. This location is southwest of the former sellite plant and is downgradient of the Acid area fuel oil storage location.	Sediment, 05-23-01 MH29S-2033	Radionuclides PCB SVOC Metals
MH-30	Acid Area, Acid/Process Sewer	South of N Street and east of the former sulfuric acid concentrator house. Upstream manhole: MH-32 Downstream manhole: off the NFSS property to the north-northwest	Dry	150	This manhole has no lid. Also noted in this manhole was 6” and 12” entering from the northeast. Sediment depth: 1” Sediment appeared to consist of leaf liter and detritus.	Sediment, 05-23-01 MH30S-2034	Radionuclides SVOC
MH-31	Acid Area Sanitary Sewer	South of N Street, north of the nitric acid concentrator house. Upstream manhole: MH-37 Downstream manhole: MH-19	110.5	125.5	Manhole exhibited septic smell. Water was murky and exhibited a sheen. Manhole has an 8” VCP entering from the south. Insufficient amount of sediment to sample.	Water, 05-19-01 MH31W-2035	Radionuclides SVOC VOC
MH-32	Acid Area, Acid/Process Sewer	South of N Street Upstream manhole: MH-33 Downstream manhole: MH-30	142	142	Water exhibited a sheen. Manhole has a 12” VCP entering from the southwest. Insufficient amount of sediment for sampling. VOCs were present in the soil and groundwater at nearby TWP 415.	Water, 05-19-01 MH32W-2036	VOC
MH-33	Acid Area, Acid/Process Sewer	South of N Street Upstream manhole: MH-34 Downstream manhole: MH-32	Dry	135	A 24” line enters from the east and a 16” line enters from the south from this manhole.	Sediment, 05-20-01 MH33S-2037	Radionuclides SVOC
MH-35	Acid Area Acid/Process Sewer	South of N Street near storm sewer manhole MH-22. Upstream manhole: MH-36 Downstream manhole: MH-34	127	128	Sediment depth: approx. 0.5” A 24” line enters from the east and a 24” line enters from the west. VOCs were present in the soil and groundwater samples near this location.	Water, 05-19-01 MH35W-2038 Sediment, 05-16-01 MH35S-2039	Radionuclides SVOC VOC

Table 3-20
Summary of Manhole Samples Collected and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Manhole Number	Area of Investigation/ Sewer System	Manhole Location	Depth to Water (inches)[1]	Depth to Invert (inches)[1]	Comments	Matrix/ Date Collected/ Sample ID	Analytical Parameters
MH-37	Acid Area, Sanitary Sewer	South of N street near the east end of the Acid area. Upstream manhole: none Downstream manhole: MH-31	Dry	99	A 6" VCP trends to the southeast from this manhole.	Sediment, 05-23-01 MH37S-2040	Radionuclides
MH-41	Shop Area Sanitary Sewer	Northwest of the intersection of Castle Garden Road and Y Street. Upstream manhole: off site on Modern Landfill property (may have been removed) Downstream manhole: MH-42	32	79	Sediment depth: approx. 1" This location received drainage from the former locomotive shop and LOOW laboratory.	Water, 05-17-01 MH41W-2041 Sediment, 05-24-01 MH41S-2042	Radionuclides SVOC PCB
			Dry		Sediment depth: 6". Resampled to confirm the presence of elevated uranium isotopes in the initial sample.	Sediment, 09-17-03 MH41S-3690	Radionuclides[2]
MH-42	Shop Area, Sanitary Sewer	In Seventh Street between X and Z Streets, south of the former combined shops building. Upstream manholes: MH-41 and MH-46 Downstream manhole: MH-43	37	108	Sediment depth: approx. 1"	Water, 05-18-01 MH42W-2043 Sediment, 05-24-01 MH42S-2044	Radionuclides SVOC PCB
MH-43	Shop Area, Sanitary Sewer	Between X and Z Streets and west of Seventh St and east of Campbell Street. Upstream manhole: MH-42 Downstream manhole: MH-44	26	97	Water exhibited a sheen. Sediment depth: approx. 1"	Water, 05-21-01 MH43W-2045 Sediment, 05-24-01 MH43S-2046	VOC Radionuclides SVOC
			89		Approximately 8" of sediment was present in the bottom of the manhole. Resampled to confirm the elevated uranium isotopes in the initial sample and provide additional data.	Water, 09-17-03 MH43W-3689 Sediment, 09-17-03 MH43S-3688	Radionuclides[2] TDS TSS
MH-44	Shop Area, Sanitary Sewer	Between X and Z Streets and west of Seventh St and east of Campbell Street. Upstream manholes: MH-43 and MH-45 Downstream manhole: MH-12	26	106	Sediment depth: approx. 0.5" The manhole was open and the lid was found nearby. Lid placed back on manhole after sampling.	Water, 05-19-01 MH44W-2047 Sediment, 05-24-01 MH44S-2048	Radionuclides

Table 3-20
Summary of Manhole Samples Collected and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Manhole Number	Area of Investigation/ Sewer System	Manhole Location	Depth to Water (inches)[1]	Depth to Invert (inches)[1]	Comments	Matrix/ Date Collected/ Sample ID	Analytical Parameters
MH-45	Shop Area, Sanitary Sewer	South of Z Street and west of Seventh St. Upstream: sump and 10" VCP from former garage area Downstream manhole: MH-44	31	60	This manhole was covered with approximately 7" of soil. A slight sheen exhibited on water. Sediment depth: approx. 0.5"	Water, 05-19-01 MH45W-2049 Sediment, 05-24-01 MH45S-2050	VOC Radionuclides SVOC
			61*		Less than 1" of water present. Sediment depth: 3" Septic odor exhibited. Resampled to confirm the presence of elevated uranium isotopes in the initial sample and provide additional data. *Field note discrepancy	Water, 09-17-03 MH45W-3687 Sediment, 09-17-03 MH45S-3686	Radionuclides[2] TDS TSS
MH-46	Shop Area, Sanitary Sewer	South of the intersection of Z Street and Seventh St. Upstream manhole: none Downstream manhole: MH-42	44	108	A slight sheen exhibited on water. Sediment depth: approx. 0.5" A shed and general storehouse buildings where drums of K-65 residue were stored are to the east of this location and to the west was a fuel oil pipeline. A rail spur was to the south.	Water, 05-21-01 MH46W-2051 Sediment, 05-24-01 MH46S-2053	VOC Radionuclides SVOC

1. Depth to Water and Depth to Invert were measured from the top of the manhole cover or, if the manhole cover was missing, where the cover is anticipated to have formerly existed.
2. Radionuclides also included total uranium. In addition a filtered and unfiltered sample was collected, except as noted in the table.

Table 3-21
Summary of Pipe and Sump Samples Collected and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Pipe/Sump Number	Area of Investigation/ Sewer System	Description	Pipe/Sump Location	Depth to Water (inches)[1]	Depth to Invert (inches)[1]	Comment	Matrix/Date Collected/Sample ID	Analysis Parameters
PIPE15	Acid Area, Acid Process	10" VCP	East-central end of the former north acid storage tanks.	Dry	37	Elbow to the south. Insufficient volume of sediment in pipe for sampling. VOCs were present in the soil and groundwater at nearby TWP415.	Sediment, 06-12-01 PIPE15S-2054	Metals VOC SVOC Radionuclides PCB
PIPE23	Acid Area, Acid Process	20" VCP	Southernmost end of the former TNT mix storage tanks.	Dry	24	Pipe obstructed with gravel. Sample collected with hand auger adjacent to pipe at a depth of 24". VOCs were present in the soil and groundwater at nearby TWP415 and PCBs were found southeast of this area.	Sediment, 05-22-01 PIPE23S-2055	Metals VOC SVOC Radionuclides PCB
PIPE28	Acid Area, Unknown	10" Steel with a heavy flange.	Southern end of the former nitric acid concentrator plant foundation.	10	32	Water in pipe exhibited oil sheen and odor. Pipe obstructed with gravel. Sediment sample collected with hand auger adjacent to pipe at a depth of 32".	Water, 05-20-01 PIPE28W-2056 Sediment, 05-22-01 PIPE28S-2058	Metals-Total Metals-Dissolved VOC SVOC Radionuclides
PIPE33	Acid Area Acid Process	10" VCP	East-central portion of the former south sulfuric acid storage tanks.	Dry	26	Broken elbow to the north. Sediment sample collected with hand auger adjacent to pipe at a depth of 26".	Sediment, 05-23-01 PIPE33S-2059	Metals SVOC Radionuclides Pesticides
PIPE41	Acid Area, Acid Process	10" VCP	Easternmost end of the former south acid storage tanks	Dry	32	Elbow to the north. No soil or sediment was present in the pipe. Sediment sample collected with hand auger adjacent to pipe at a depth of 32".	Sediment, 05-24-01 PIPE41S-2060	Metals SVOC Radionuclides
PIPE42	Acid Area, Acid Process	4" VCP	Southeast end of the former concentrated mix area.	Dry	54	Pipe contained an insufficient volume of sediment for sampling. Sediment sample collected with hand auger adjacent to pipe at a depth of 54".	Sediment, 05-24-01 PIPE42S-2062	Metals VOC SVOC Radionuclides
PIPE47	Acid Area, Acid Process	10" VCP	Northern end of the former concentrated mix area.	Dry	41	Elbow to the west. Sample appeared to consist of detritus. Pipe has metal collar.	Sediment, 05-20-01 PIPE47S-2063	Metals SVOC Radionuclides
PIPE57	Acid Area, Acid Process	10" VCP	This 10" VCP is located in the central portion of the former concentrated nitric acid storage tanks.	Dry	8	Sediment appeared to consist of detritus.	Sediment, 05-20-01 PIPE57S-2064	Metals SVOC Radionuclides Pesticides
PIPE63	Acid Area, Acid Process	6" Steel	Northernmost pit at the former ammonia oxidation plant.	Dry	20	Broken joint noted in the pipe. Insufficient volume of sediment in pipe for sampling. Sediment sample collected with hand auger adjacent to pipe at a depth of 20".	Sediment, 05-23-01 PIPE63S-2065	Metals SVOC Radionuclides PCB

Table 3-21
Summary of Pipe and Sump Samples Collected and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Pipe/Sump Number	Area of Investigation/ Sewer System	Description	Pipe/Sump Location	Depth to Water (inches)[1]	Depth to Invert (inches)[1]	Comment	Matrix/Date Collected/Sample ID	Analysis Parameters
PIPE72	Acid Area, Acid Process	10" VCP	Northern end of the former TNT mix storage tanks.	Dry	Unknown	Pipe filled to surface with detritus, soil and sediment. Hand- augered to a depth of 36" inside the pipe to provide sufficient volume for a sample. This area is directly adjacent to a former fuel oil storage location.	Sediment, 05-23-01 PIPE72S-2066	Metals SVOC Radionuclides Pesticides PCB
PIPE74	Shop Area, EU 8/Unknown	10" VCP	Within the Garage and Repair Shop foundation slab south of Z Street. Pipe elbows to the west	20	59	Water in pipe exhibited sheen.	Water, 05-21-01 PIPE74W-2067 Sediment, 06-13-01 PIPE74S-2068	Metals-Total Metals-Dissolved VOC SVOC Radionuclides
				66*		About 4" of water. Sediment sample appeared to consist chiefly of leaves. Water level did not decrease as collected sample. Resampled to confirm the presence of VOCs and elevated uranium isotopes in the initial sample. *Not measured from the same reference point.	Water, 09-17-03 PIPE74W-3693 Sediment, 09-17-03 PIPE74S-3692	VOC Radionuclides[2] TSS TDS
SUMP02	Acid Area, Acid Process	30" x 45" brick lined sump with a 10" VCP	Southern end of the former residual sulfuric acid storage tanks	Dry	Unknown	Sump was covered with utility poles and was inaccessible. Sediment sample collected with hand auger adjacent to sump at a depth of 30". This sump potentially received drainage from the former sulfuric acid storage tanks and the sulfuric acid concentrator house.	Sediment, 06-12-01 SUMP02S-2069	Metals SVOC Radionuclides
SUMP07	Acid Area, Acid Process	30" x 45" brick lined sump with a 10" VCP	Located at the western end of the former northern acid storage tanks.	Dry	Unknown	Filled to surface rocks. Sediment sample collected with hand auger adjacent to sump at a depth of 30". This location drained the north acid tanks and potentially received runoff from the former rail lines in the immediate vicinity.	Sediment, 06-12-01 SUMP07S-2070	Pesticides SVOC Radionuclides

Table 3-21
Summary of Pipe and Sump Samples Collected and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Pipe/Sump Number	Area of Investigation/ Sewer System	Description	Pipe/Sump Location	Depth to Water (inches)[1]	Depth to Invert (inches)[1]	Comment	Matrix/Date Collected/Sample ID	Analysis Parameters
SUMP13	Acid Area, Acid Process	30" x 45" brick lined sump with a 10" VCP	Northern end of the former TNT mix storage tanks.	Dry	unknown	Pipe obstructed with gravel. Sediment sample collected with hand auger adjacent to sump at a depth of 45". A pipe and sump sample near this location collected for the LOOW RI had detectable levels of VOCs. In addition, this location is north of soil sampling locations (413, 417 and 4D010) where detectable levels of PCBs were found.	Sediment, 06-12-01 SUMP13S-2071	VOC PCB SVOC Radionuclides
SUMP14	Acid Area, Acid Process	30" x 45" brick lined sump with a 10" VCP	Western end of the former south sulfuric acid storage tanks.	Dry	unknown	Pipe obstructed. Sediment sample collected with hand auger adjacent to sump at a depth of 45".	Sediment, 06-12-01 SUMP14S-2072	Pesticides SVOC Radionuclides
SUMP19	Acid Area, Acid Process	30" x 45" brick lined sump with a 10" VCP	Western end of the former south acid storage tanks.	Dry	12	Pipe obstructed. Sediment sample collected with hand auger adjacent to sump at a depth of 48".	Sediment, 06-14-01 SUMP19S-2073	PCB Pesticides SVOC Radionuclides
SUMP25	Acid Area, Acid Process	30" x 45" brick lined sump with a 10" VCP	North-central portion of the former concentrated mix storage tanks.	Dry	12	Pipe obstructed. Sediment sample collected with hand auger adjacent to sump at a depth of 18".	Sediment, 06-14-01 SUMP25S-2074	SVOC Radionuclides
SUMP32	Acid Area, Acid Process	30" x 45" brick lined sump with a 10" VCP	Central portion of the former TNT mix storage tanks.	Dry	12	Pipe obstructed. Sediment sample collected with hand auger adjacent to sump at a depth of 18".	Sediment, 06-12-01 SUMP32S-2075	Metals PCB SVOC Pesticides Radionuclides
SUMP35	Shop Area, Unknown	3' x 3' pit partially filled with concrete rubble	Within the Garage and Repair Shop foundation slab south of Z Street.	14	35	Sheen was present on the water in the sump and 5" of sediment was noted. This sump may be part of an oil-water separator or a sump for the discharge from the vehicle repair shop.	Water, 05-21-01 SUMP35W-2077 Sediment, 06-14-01 SUMP35S-2078	VOC SVOC Radionuclides

1 Depth to Water and Depth to Invert were measured from the top of the pipe rim or sump rim. Depth to Invert was measured to the detritus or to the bottom of the pipe or sump, whichever was encountered first.
2 Radionuclides also included total uranium. In addition a filtered and unfiltered sample was collected, except as noted in the table.

Table 3-22
Summary of Drain Samples Collected at Building 401 and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Drain Number	Drain Location	Depth to Water (ft)[1]	Depth to Sediment (ft)[1]	Comments	Matrix/ Date Collected/ Sample ID	Analytical Parameters
Drain 1	Large sump located along the east side of the Boiler Room (Room 120), east of the boiler tanks.	2.9	4.5	Water depth = 1.6 feet and thickness of sediment less than 0.1 feet. Depth to invert is 4.5 feet below ground level. Sediment was black and wet with a slight septic and hydrocarbon odor.	Water, 09-30-03 DRAIN01-W-3700 Sediment, 10-02-03 DRAIN01-S-3701	VOC Metals-total Metals-dissolved Radionuclides Radionuclides-dissolved SVOC, PAH Pesticides/PCBs
Drain 2	Pipe chase located within the northeast wall of the Boiler Room (Room 120), north of the boiler tanks and sump.	1.7	2.3	Water depth = 0.6 feet and thickness of sediment = 0.2 feet. Depth to invert is 2.5 feet below ground level. Sediment was black and wet with a septic odor.	Water, 09-30-03 DRAIN02-W-3702 Sediment, 10-02-03 DRAIN02-S-3703	VOC Metals-total Metals-dissolved Radionuclides-dissolved SVOC, PAH Pesticides/PCBs
Drain 3	Floor drain located in the northeast quadrant of Room 131.	0.8	1.0	Free phase oil that smelled similar to turpentine was floating on the surface of the water. Water depth = 0.2 feet and thickness of the sediment and oil phase was less than 0.1 feet. Depth to invert was 1.0 foot below ground level. Due to lack of sufficient sample volume, drain water analyzed for VOCs and radionuclides and the oil sample was analyzed for SVOCs, pesticides and PCBs.	Water, 10-01-03 DRAIN03-W-3704 Sediment, 10-02-03 DRAIN03-S-3705 Oil, 10-01-03 DRAIN03-O-3720	VOC Metals-total Radionuclides SVOC, PAH Pesticides/PCBs
Drain 4	Floor drain located in the southwestern quadrant of Room 131	0.6	0.8	Free phase oil that smelled similar to turpentine was floating on the surface of the water. Water depth = 0.2 feet and thickness of the sediment was 0.2 feet. The thickness of the oil phase was less than 0.1 feet. Depth to invert was 1.0 feet below ground level. Sediment was black and wet with a petroleum odor. Due to lack of sufficient sample volume, oil and drain water were not analyzed for PAHs and total uranium (one of the radionuclide parameters).	Water, 10-01-03 DRAIN04-W-3706 Sediment, 10-02-03 DRAIN04-S-3707 Oil, 10-01-03 DRAIN04-O-3719	VOC Metals Radionuclides SVOC, PAH Pesticides/PCBs
Drain 5	Sump with floor drain located in the northwest quadrant of Room 129	0.8	1.2	Water depth = 0.4 feet and thickness of sediment was less than 0.1 feet. Depth to invert was 1.2 feet below ground level. Sediment gray and wet. Due to lack of sufficient sample volume, sediment was analyzed for radionuclides only.	Water, 10-01-03 DRAIN05-W-3708 Sediment, 10-02-03 DRAIN05-S-3709	Metals-total Metals-dissolved Radionuclides SVOC, PAH Pesticides/PCBs

Table 3-22
Summary of Drain Samples Collected at Building 401 and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Drain Number	Drain Location	Depth to Water (ft)[1]	Depth to Sediment (ft)[1]	Comments	Matrix/ Date Collected/ Sample ID	Analytical Parameters
Drain 6	Floor drain located in the western half of Room 127	0.8	1.0	Water depth = 0.2 feet and thickness of sediment was less than 0.1 feet. Sediment was black with a slight hydrocarbon and septic odor. Due to lack of sufficient sample volume, drain water was analyzed for radionuclides only.	Water, 10-01-03 DRAIN06-W-3710 Sediment, 10-02-03 DRAIN06-S-3711	VOC Metals Radionuclides SVOC, PAH Pesticides/PCBs
Drain 7	Floor drain located at the end of a trench in the western half of Room 121	NA	1.5	No water was present. Sediment reddish-brown and moist.	Sediment, 10-02-03 DRAIN07-S-3712	VOC Metals Radionuclides SVOC, PAH Pesticides/PCBs
Drain 8	Floor drain and associated catch basin located in a hallway southwest of room 132.	NA	0.5	No water was present.	Sediment, 10-02-03 DRAIN08-S-3713	VOC Metals Radionuclides SVOC, PAH Pesticides/PCBs
Drain 9	Floor drain located along the former western wall of Room 119	NA	0.5	No water was present. Sediment brown and dry with wood fragments present.	Sediment, 10-02-03 DRAIN09-S-3714	VOC Metals Radionuclides SVOC, PAH Pesticides/PCBs
Drain 10	Floor drain located in the south central half of Room 122.	NA	1.5	No water was present. Sediment gray and moist.	Sediment, 10-02-03 DRAIN10-S-3715	VOC Metals Radionuclides SVOC, PAH Pesticides/PCBs
Drain 11	Floor drain located east of the eastern boiler tank in Room 120.	NA	1.0	No water was present. Sediment grayish brown and moist.	Sediment, 10-02-03 DRAIN11-S-3716	VOC Metals Radionuclides SVOC, PAH Pesticides/PCBs
Drain 12	Toilet drain located along the northern wall in Room 117.	NA	0.5	No water was present. Sediment brown and moist.	Sediment, 10-02-03 DRAIN12-S-3717	VOC Metals Radionuclides SVOC, PAH Pesticides/PCBs
Drain 13	Floor drain located in the northwest corner of Room 116.	NA	1.5	No water was present. Sediment black and moist with a petroleum odor.	Sediment, 10-03-03 DRAIN13-S-3718	VOC Radionuclides SVOC Pesticides/PCBs

Table 3-22
Summary of Drain Samples Collected at Building 401 and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Drain Number	Drain Location	Depth to Water (ft)[1]	Depth to Sediment (ft)[1]	Comments	Matrix/ Date Collected/ Sample ID	Analytical Parameters
Drain 14	Floor drain associated with a sump and sump pump located in the northeastern corner of Room 111.	NA	0.5	No water was present. Sediment reddish-brown, and dry.	Sediment, 10-03-03 DRAIN14-S-3719	VOC Metals Radionuclides SVOC, PAH Pesticides/PCBs

* The drain samples were collected to characterize the drain water and sediment associated with the indoor drains and sumps located within Building 401. Building 401 was used as a power plant and a boron isotope separation plant. Radioactive wastes were also stored in this building. The analytical parameters were selected to detect a wide range of compounds. When sample volume was minimal, parameters were prioritized based on these past activities in the building.
1. Depth to Water and Depth to Sediment were measured from the top of the floor.

NA = Not Applicable; no water

Table 3-23
Summary of Railroad Ballast Samples and Justifications for Collection
Niagara Falls Storage Site Remedial Investigation

Sample Number*	Area of Investigation	Collection Date	Justification
RB01	Acid Area, EU 4	10/3/00, Phase 2	During the field gamma survey at BH417, railroad ballast at this location exhibited higher gamma readings than the surrounding soil.
RB02	Shops Area, EU 8	10/3/00, Phase 2	During the field gamma survey at BH306, railroad ballast at this location exhibited higher gamma readings than the surrounding soil.
RB03	Southeast of Building 401, EU 12	10/3/00, Phase 2	Along the rail line that serviced Building 401.
RB04	South of Building 401, EU 14	10/3/00, Phase 2	Along the rail line that serviced Building 401, at the location at which coal was off-loaded to the storage silos.
RB05	Shops Area, EU 8	10/3/00, Phase 2	During the field gamma survey at BH304, railroad ballast at this location exhibited higher gamma readings than the surrounding soil.

*All railroad ballast samples were analyzed for: actinium-227, americium-241, cesium-137, cobalt-60, protactinium-231, radium-226, radium-228, alpha/gamma thorium-228, uranium-235 (gamma), alpha/gamma uranium-238, thorium-230, thorium-232, uranium-233/234, uranium-235/236, total uranium, and gross alpha/beta.

Table 3-24

Summary of Road and Pad Core Samples Collected and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample ID	Collection Date	Exposure Unit	Location	Parameters	Justification/Remarks
RC01-964	9/15/2000	11	Campbell Street near site entrance.	Rad	Near 50,000 cpm gamma reading found at location of nearby former guardshack.
RC02-965	9/15/2000	11	Campbell Street between Buildings 429 and 403	Rad	Near 70,000 cpm gamma reading in nearby ditch.
RC03-966	9/16/2000	12	Castle Garden Road at Vine Street.	Rad	At former railroad crossing, reported to have been used as temporary storage of drummed radioactive residues.
RC04-968	9/15/2000	8	Campbell Street north of Z Street	Rad	Along suspected haul route used for past remedial actions.
RC05-969	9/15/2000	1	West Patrol Road at suspected entrance to Baker-Smith Area	Rad	Along suspected haul route used to transport radioactive residues to the Baker-Smith Area for storage.
RC06-970	9/15/2000	2	Lutts Road north of O Street	Rad	Former railroad crossing located here. This track lead to the unloading platforms north of the Baker-Smith Area.
RC07-971	9/15/2000	8	Campbell Street at O Street	Rad	Along suspected haul route used for past remedial actions.
RC08-972	9/15/2000	4	Campbell Street south of O Street at railroad crossing	Rad	The rail line carried radioactive residues to in the combined shops building, located to the west, for storage.
RC09-973	9/15/2000	5	O Street at Vine Street	Rad	This area was the location of a former railroad crossing, reported to have been used as temporary storage of drummed residues.
RC10-974	9/14/2000	6	MacArthur Street north of O Street.	Rad	This area was reported to be used for temporary storage of drummed radioactive residues.
RC11-976	9/14/2000	3	N Street at the driveway to the former radium vault	Rad	Along suspected haul route used for past remedial actions.
RC12-977	9/14/2000	5	N Street, near Building 434, where the pavement was removed during a past remedial action.	Rad	This area was reportedly remediated, but no confirmatory sample data was available.
RC13-978	9/14/2000	6	N Street, near Building 434, where the pavement was removed during a past remedial action.	Rad	This area was reportedly remediated, but no confirmatory sample data was available.
RC14-979	9/14/2000	6	MacArthur Street south of N Street at former railroad crossing	Rad	This area was reported to be used for temporary storage of drummed radioactive residues.
RC15-2445	11/14/2001	8	200 feet east of intersection of Campbell Street and O Street	Rad	Gamma reading of 15,000 cpm at this location
RC16-2447	11/14/2001	12	Castle Garden Road at Vine Street, approximately 30 feet south of RC03-966	Rad	Gamma reading of 26,000 cpm at this location
RC17-2448	11/13/2001	2	20 feet north of the intersection of Campbell Street and N Street	Rad	Gamma reading of 40,000 cpm at this location
RC18-2449	11/14/2001	6	O Street, approximately 500 feet east of RC09-973	Rad	Gamma reading of 82 KCPM at this location
RC19-2450	11/14/2001	11	R Street, approximately 250 feet west of Campbell Street	Rad	Gamma reading of 22,000 cpm at this location

Table 3-24

Summary of Road and Pad Core Samples Collected and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample ID	Collection Date	Exposure Unit	Location	Parameters	Justification/Remarks
RC-CORE01-3730	10/14/2003	13	Inside Building 401	Rad, Total Metals, SVOC, PAHs, VOCs, Pest/PCB	Room 131 at location of floor stain.
RC-CORE02-3732	10/14/2003	13	Inside Building 401	Rad, Total Metals, SVOC, PAHs, VOCs, Pest/PCB	Room 131 at location of electrical transformers.
RC-CORE03-3734	10/14/2003	13	Inside Building 401	Rad, Total Metals, SVOC, PAHs, VOCs, Pest/PCB	Room 120 at location of electrical transformers.
RC-CORE04-3736	10/15/2003	13	Inside Building 401	Rad, Total Metals, SVOC, PAHs, VOCs, Pest/PCB	Room 121 at loading ramp.
RC-CORE05-3738	10/15/2003	13	Inside Building 401	Rad, Total Metals, SVOC, PAHs, VOCs, Pest/PCB	Room 108, suspected laboratory area, at location of floor stain.
RC-CORE06-3740	10/13/2003	13	Inside Building 401	Rad, Total Metals, SVOC, PAHs, VOCs, Pest/PCB	Room 122, next to a sieve shaker.
RC-CORE07-3742	10/13/2003	13	Inside Building 401	Rad, Total Metals, SVOC, PAHs, VOCs, Pest/PCB	Room 101, in a suspected laboratory area.
RC-CORE08-3744	10/13/2003	13	Inside Building 401	Rad, Total Metals, SVOC, PAHs, VOCs, Pest/PCB	In loading area.
RC-CORE09-3746	10/13/2003	13	Inside Building 401	Rad, Total Metals, SVOC, PAHs, VOCs, Pest/PCB	Room 119, near transformers.
RC-CORE10-3748	10/13/2003	13	Inside Building 401	Rad, Total Metals, SVOC, PAHs, VOCs, Pest/PCB	Room 122, located in area of patched concrete.

Table 3-25
Summary of Niagara-Mohawk Surface and Subsurface Soil Samples Collected and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Parameter	Rationale for Sample Location and Analyses
SS901 and SB901 - Co-located at southern end of property, east side of West Ditch, EU 9.	SB901-2080-2.0 SS901-2079	11/15/2001	VOC, SVOC, METALS, RAD, PCB, Nitoraromatics (SS only)	Investigate the presence or absence of radiological compounds at the southern boundary of the property.
SS902 and SB902 - Co-located at southern end of property, west of West Ditch, EU 9.	SB902-2082-2.0 SS902-2081	11/15/2001	VOC, METALS, RAD, PCB	Investigate a gamma reading approximately 1.5 times background found during the Gamma Walkover Survey.
SS903 and SB903 - Co-located at 300 feet north of southern end of property, east side of West Ditch, EU 9.	SB903-2085-2.0 SS903-2083	11/18/2001	VOC, SVOC, METALS, RAD, PCB, Nitoraromatics (SS only)	Investigate the presence or absence of radiological compounds at the southeastern boundary of the property.
SS904 and SB904 - Co-located 500 feet north of southern end of property, west side of West Ditch, EU 9.	SB904-2088-3.0 SS904-2087	11/18/2001	VOC, METALS, RAD, PCB	Located in an apparent spoils pile, near the location of a sediment sample which exhibited a field gamma reading of approximately twice background.
SS905 and SB905 - Co-located 600 feet north of southern end of property, west side of West Ditch, EU 9.	SB905-2090-2.0 SS905-2089	11/18/2001	VOC, METALS, RAD, PCB	Investigate a rubble pile that could have originated from the former LOOW or NFSS.
SS906 and SB906 - Co-located 900 feet north of southern end of property, west bank of West Ditch, EU 9.	SB906-2092-3.0 SS906-2091	11/18/2001	VOC, METALS, RAD, PCB	Investigate a gamma reading approximately 1.5 times background found during the Gamma Walkover Survey.
SS907 and SB907 - Co-located 1100 feet north of southern end of property, west side of West Ditch, EU 9.	SB907-2094-2.5 SS907-2093	11/15/2001	VOC, SVOC, METALS, RAD, PCB, Nitoraromatics (SS only)	Investigate the presence or absence of radiological compounds at the eastern boundary of the property.
SS908 and SB908 - Co-located 600 feet south of northern end of property, west bank of West Ditch, EU 9.	SB908-2096-2.5 SS908-2095	11/18/2001	VOC, METALS, RAD, PCB	Investigate the possibility of radiological compounds migrating from the NFSS.
SS909 and SB909 - Co-located 350 feet south of northern end of property, west bank of West Ditch, EU 9.	SB909-2098-2.0 SS909-2097	11/14/2001	VOC, METALS, RAD, PCB	Investigate the possibility of radiological compounds migrating from the NFSS.
SS910 and SB910 - Co-located at northern end of property, west of West Ditch, EU 9.	SB910-2100-2.0 SS910-2099	11/14/2001	VOC, METALS, RAD, PCB	Investigate an apparent spoils pile dredged from the West Ditch.
SS913 and SB913 - Co-located 500 feet north of southern end of property, east side of West Ditch, EU 9.	SB913-2474-1.5 SS913-2105	11/15/2001	RAD	Investigate a field gamma reading found during field activities which was approximately twice background.
SS-EU091 and SB-EU091 - Co-located southwest of IWCS	SB-EU091-3320-2.0 SS-EU091-3340	7/11/2003	VOC, SVOC (SB only), METALS, RAD, PEST, PCB, PAH	To delineate the extent of radiological compounds found in SB913 and characterize area of former freshwater pond used during operation of the LOOW.
SS-EU092 and SB-EU092 - Co-located southwest of IWCS	SB-EU092-3321-2.0 SS-EU092-3341	7/11/2003	VOC, SVOC (SB only), METALS, RAD, PEST, PCB, PAH	To delineate the extent of radiological compounds found in SB913 and characterize area of former freshwater pond used during operation of the LOOW.
SS-EU093 and SB-EU093 - Co-located southwest of IWCS	SB-EU093-3322-2.0 SS-EU093-3342	7/11/2003	VOC, SVOC (SB only), METALS, RAD, PEST, PCB, PAH	To delineate the extent of radiological compounds found in SB913 and characterize area of former freshwater pond used during operation of the LOOW.

Table 3-26

Summary of Niagara-Mohawk Sediment and Surface Water Samples Collected and Analysis Performed
Niagara Falls Storage Site Remedial Investigation

Sample Location	Sample ID	Collection Date	Parameter	Rationale for Sample Location and Analyses
911 - Southern end of property, in the West Ditch, EU 9.	SW911-2102 SD911-2101	11/15/2001	RAD	Determine the presence or absence of radiological compounds at the southern boundary of the property.
912 - 175 feet north of southern end of property, in the West Ditch, EU 9.	SW912-2104 SD912-2103	11/15/2001	RAD	Determine the presence or absence of radiological compounds at this location.
914 - 600 feet north of southern end of property, in the West Ditch, EU 9.	SW914-2109 SD914-2108	11/14/2001	RAD	Downstream of a gamma measurement above background.
915 - 600 feet north of southern end of property, in the West Ditch, EU 9.	SW915-2112 SD915-2109	11/15/2001	RAD	Investigate a location marked 'contaminated' on historical documents.
916 - 1000 feet north of southern end of property, in the West Ditch, EU 9.	SW916-2114 SD916-2113	11/15/2001	RAD	Investigate a location marked 'contaminated' on historical documents.
917 - 600 feet south of northern end of property, in the West Ditch, EU 9.	SW917-2116 SD917-2115	11/14/2001	RAD	Investigate a location marked 'contaminated' on historical documents.
918 - 525 feet south of northern end of property, in the West Ditch, EU 9.	SW918-2118 SD918-2117	11/14/2001	RAD	Investigate a location marked 'contaminated' on historical documents.
919 - 200 feet south of northern end of property, in the West Ditch, EU 9.	SW919-2120 SD919-2119	11/14/2001	RAD	Determine the presence or absence of radiological compounds at this location.
920 - Northern end of property, in the West Ditch, EU 9.	SW920-2122 SD920-2121	11/13/2001	RAD	Determine the presence or absence of radiological compounds at the northern boundary of the property.

Table 4-1
Field Observations at Trench Locations
Niagara Falls Storage Site Phase III Remedial Investigation

Trench Number	Area of Investigation	Trench Length	Trench Depth	Sample Location	Field Evidence Of Contamination	Field Observations
T201	Building 401 Area	40 feet	1 - 5 feet	Suspect UST West of Building 401	No elevated gamma readings No elevated PID readings	This trench was located to investigate a potential tank located adjacent to the west side of Building 401. A large vent was observed at the wall of the building and the vegetation over the top of the potential tank was stressed. The location of the trench examined a ferrous zone anomaly FZ540 that was reported in the geophysical investigation of the area. No tanks were found. Concrete slabs, of unknown purpose, were uncovered.
T202	Building 401 Area	80 feet	4 feet near the inlet to 7 feet at the southern end	Storm Sewer Inlet / Former Salt Ponds	No elevated gamma readings Organic odor From 0+46' to 0+58'	A storm sewer grated inlet was observed on the south side of Building 401. This trench was located to investigate that inlet, its associated piping, and the disturbed area to the south of the inlet (area covered in heavy clayey soil with little grass growing). The disturbed area may have been a portion of the boron salt sludge pits during the operation of the boron separation plant. The location of the trench examined a ferrous zone anomaly FZ540 and metallic zone anomaly 549 that were reported in the geophysical investigation of the area. No metallic objects found. Organic odor was medium strong and 'pesticide' like. Laboratory sample was collected from this area.
T203	Building 401 Area	65 feet	8 feet	Suspect UST	No elevated gamma readings No elevated PID readings	This trench was located to investigate a potential tank located north of Building 401. The trench was placed along the west side of the concrete pad. A boring was installed in this location but may not have completely defined the contamination potential for the tank. Concentrations of VOCs and metals were found in the groundwater samples from this area. The location of the trench examined a ferrous zone anomaly FZ541 that was reported in the geophysical investigation of the area. No tanks found. Several metallic objects (debris) found. 6" gas line found.
T204	Building 401 Area	70 feet	5 – 10 feet	Spoils pile	No elevated gamma readings No elevated PID readings	This trench was located to investigate a spoils pile located southeast of Building 401. No metallic objects found.
T205	Building 401 Area	65 feet	8 feet	Pesticide Odor	No elevated gamma readings Numerous slightly elevated PID readings	This trench was located to further investigate the 'pesticide' odor noted in trench T202. No metallic objects found. Pesticide odor noted from 0+28 to 0+65. Laboratory sample collected from this area. Three sand lenses found.

Table 4-1
Field Observations at Trench Locations
Niagara Falls Storage Site Phase III Remedial Investigation

Trench Number	Area of Investigation	Trench Length	Trench Depth	Sample Location	Field Evidence Of Contamination	Field Observations
T301	Shops Area	50 feet	6 feet near the A end and 3 feet along the pipeline	Pipeline and Suspect UST	Elevated gamma reading at 0+29' No elevated PID readings	A pipeline is visible from a former rail line on the property south of "Z" Street. Approximately halfway from the rail line to the street the pipeline becomes buried and is suspected to end at a UST. This trench was located to investigate the pipeline and suspect UST. The location of the trench examined a ferrous zone anomaly FZ535 that was reported in the geophysical investigation of the area. No tank found. Waterline and metallic debris found. Area of elevated gamma reading sampled. Water infiltrating trench from RR ballast.
T302	Shops Area	110 feet	5 feet below the original ground surface (9 feet total depth)	Debris Pile	No elevated gamma readings No elevated PID readings	This trench investigated the debris pile south of "Z" Street and west of Castle Garden Road. The debris pile includes large blocks of concrete. Due to uneven terrain, no gamma walkover activities were performed in the area of this debris pile. The location of the trench examined a ferrous zone anomaly FZ536 that was reported in the geophysical investigation of the area. Large amount of broken concrete debris. No metallic objects found.
T303	Shops Area	42 feet	7 feet	Suspect UST	No elevated gamma readings No elevated PID readings	This trench was located to investigate a potential tank located north of a building foundation. The trench was placed along the concrete foundation. The location of the trench examined ferrous zone anomaly FZ530 that was reported in the geophysical investigation of the area. No tank found. No metallic objects found. Large sand lens at 0+35.
T304	Shops Area	73 feet	7 feet	Open Concrete Sump and Pipe	No elevated gamma readings No elevated PID readings	This trench was located to investigate an open concrete sump and potential underground piping in the former garage/maintenance area of the former LOOW. Gross contamination was observed during collection of the samples from the pipe during the pipeline investigation. The location of the trench examined a ferrous zone anomaly FZ539 that was reported in the geophysical investigation of the area. Copper and vitrified clay piping found.
T305	Shops Area	85 feet	5 feet	Debris Pile	No elevated gamma readings No elevated PID readings	This trench was located to further investigate the debris pile south of "Z" Street and west of Castle Garden Road. No metallic objects found. Small sand lens at 0+14.
T403	Acidification Area	50 feet	8 feet	Rubble Filled Depression	No elevated gamma readings No elevated PID readings	This trench investigated the rubble filled depression in the former acidification area between "O" Street and "N" Street. The debris pile includes sheet metal and rubble. This area has been called the New Naval Dump. Due to the uneven terrain, no gamma walkover survey was completed in this area. The location of the trench examined a ferrous zone anomaly FZ310 and metallic zone anomaly MZ 317 that were reported in the geophysical investigation of the area. Miscellaneous metallic objects in fill layer. Two sand lenses.

Table 4-1
Field Observations at Trench Locations
Niagara Falls Storage Site Phase III Remedial Investigation

Trench Number	Area of Investigation	Trench Length	Trench Depth	Sample Location	Field Evidence Of Contamination	Field Observations
T404	Acidification Area	57 feet	8 feet	Sewer Line / Potential Debris Area	No elevated gamma readings No elevated PID readings	This trench was located to investigate the sewer and underground piping, as well as the potential debris area in the former acidification area of the former LOOW just south of "N" Street. The trench will be located in a hummocky area north of the former sulfuric acid concentrator house. The location of the trench examined ferrous zone anomalies FZ310 and FZ 328 that were reported in the geophysical investigation of the area. 12" vitrified clay pipe and 36" concrete pipe found. Trenching terminated from 0+40 to 0+60 due to water infiltration.
T406	Acidification Area	60 feet	5 feet below original ground surface (7 feet total)	Rubble Filled Depression	No elevated gamma readings No elevated PID readings	This trench investigated the debris pile south of "N" Street and west of Castle Garden Road cut-through in the former acidification area. The debris pile includes PVC and steel pipes, rubble, and gray foam products. The location of the trench examined ferrous zone anomalies FZ333 and FZ328 that were reported in the geophysical investigation of the area. 8" vitrified clay pipe and 36" concrete pipe found. Three sand lenses.
T408	Acidification Area	60 feet	5 feet below original ground surface (7 feet total)	Debris Pile	Slightly elevated gamma reading at 0+21' No elevated PID readings	This trench investigated the debris pile south of "N" Street and east of Castle Garden Road cut-through in the former acidification area. The debris pile includes rubble and asphalt roofing materials. The location of the trench examined a ferrous zone anomaly FZ328 that was reported in the geophysical investigation of the area. 12" pipe found. Undefined magnetic anomaly at 0+54'.
T410	Acidification Area	65 feet	6 feet	Suspect UST	No elevated gamma readings No elevated PID readings	This trench was located to investigate a potential tank located northwest of a building foundation south of "N" Street. This trench was placed on the western edge of the slab. The location of the trench examined an unnamed conductive zone anomaly that was reported in the geophysical investigation of the area. No tank found. No metallic objects found.
T411	Acidification Area	65 feet	7 feet	Disturbed Ground in former Storage Area	Two areas of elevated gamma readings in fill/rubble. No elevated PID readings	This trench was located to investigate the soils at the western end of the acidification area that were reportedly remediated. This area has been called the New Naval Dump. Manhole MH18 was also in this area, but it has been destroyed or covered. Bars of pure radioactive material were located in a vault south of this area. It appears that the soil surrounding the trench location has been disturbed. No confirmatory sampling results were found in the site documentation. The location of the trench examined ferrous zone anomalies FZ310 and conductive zone anomaly CZ316 that were reported in the geophysical investigation of the area. Several metallic objects (rebar) found in fill/rubble. Two areas of elevated gamma sampled.

Table 4-1
Field Observations at Trench Locations
Niagara Falls Storage Site Phase III Remedial Investigation

Trench Number	Area of Investigation	Trench Length	Trench Depth	Sample Location	Field Evidence Of Contamination	Field Observations
T412	Acidification Area	65 feet	7 feet	Disturbed Ground in former Storage Area	No elevated gamma readings One slightly elevated PID reading.	This trench was located to investigate the soils at the western end of the acidification area that have reportedly been remediated. This area has been called the New Naval Dump. Bars of pure radioactive material were located in a vault southeast of this area. It appears that the soil surrounding the trench location has been disturbed. No confirmatory sampling results were found in the site documentation. The location of the trench examined ferrous zone anomaly FZ310 and metallic anomaly MZ317 that were reported in the geophysical investigation of the area. Metallic debris found in fill layer. Two sand lenses. PID reading of 7 ppm in area with white clay nodules; sample collected.
T413	Acidification Area	90 feet	10 feet	Disturbed Ground in former Storage Area	No elevated gamma readings No elevated PID readings	This trench was located to investigate the area where bars of pure radioactive material were stored in a vault at the western end of the acidification area. This area has been called the New Naval Dump. It appears that the soil surrounding the trench location has been disturbed and/or previously remediated. Videos of this area indicate that this was the general asbestos burial area for the NFSS. No confirmatory sampling results were found in the site documentation. The location of the trench examined a metallic zone anomaly MZ317 that was reported in the geophysical investigation of the area. 4” iron pipe found. Trenching terminated at 5’ BGL from 0+69 to 0+90 due to water infiltrating from RR ballast.
T414	Acidification Area	50 feet	10 feet	Near Large Concrete Foundation near former Storage Area	No elevated gamma readings No elevated PID readings	This trench was located to investigate piles of debris on the west side of a concrete foundation at the western end of the acidification area. Bars of pure radioactive material were located in a vault west of this area. It appears that the soil surrounding the trench location has been disturbed and/or previously remediated. No confirmatory sampling results were found in the site documentation. The trench was located adjacent to the foundation slab. No gamma walkover survey was provided in this area. The location of the trench examined ferrous zone anomaly FZ328 that was reported in the geophysical investigation of the area. Debris/rubble/concrete with rebar found.
T501	Baker Smith Area	150 feet	5 feet	Among the Foundations in the Central Portion of the Area	No elevated gamma readings No elevated PID readings	This trench was located to investigate several areas on an east-west trending line across the area. Various foundations are located near the line of the trench. Elevated gamma readings in surface and subsurface samples were noted during the soil sample collection after the gamma walkover. The location of the trench examined conductive zone anomalies CZ208 and CZ217, metallic zone anomaly MZ207, and ferrous zone anomaly FZ220 that were reported in the geophysical investigation of the area. Numerous small metallic items found in debris/fill layer.

Table 4-1
Field Observations at Trench Locations
Niagara Falls Storage Site Phase III Remedial Investigation

Trench Number	Area of Investigation	Trench Length	Trench Depth	Sample Location	Field Evidence Of Contamination	Field Observations
T802	Historically Uninvestigated Area	230 feet (N-S) 198 feet (E-W)	7 feet 3 – 7 feet	Former Disposal Area	Several slightly elevated gamma readings No elevated PID readings	This trench was located to investigate the former disposal area located north of the IWCS. This area was shown on the site videos. Large quantity of fill/debris/rubble encountered.
T808	Historically Uninvestigated Area	45 feet (N-S) 60 feet (E-W)	10 feet 4 feet	Organic Burial Area	Several slightly elevated gamma readings No elevated PID readings	The location of this trench was to investigate the organic burial area north of the IWCS. This area was shown on the site videos. Some of the material in the organic burial area trench may have been partially burned prior to placement. Large quantity of fill/debris/rubble encountered. Several radium chips found.
T809	Historically Uninvestigated Area	50 feet	4 feet	Former Water Storage Area	Two areas of slightly elevated gamma readings No elevated PID readings	The location of this trench was to investigate the area of the former water storage pits located north of the Hittman Building. This area was shown on the site videos. 36” concrete pipe and 8” iron pipe uncovered. Numerous small metallic objects in surface layer
T810	Historically Uninvestigated Area	55 feet	6 feet	Former Water Storage Area	One area of elevated gamma readings No elevated PID readings	The location of this trench was to investigate the area of the former water storage pits located north of the Hittman Building. This area was shown on the site videos. Fill from 0’ – 3’ deep. One sand lens
T811	Historically Uninvestigated Area	53 feet	7 feet	Former Water Storage Area	No elevated gamma readings No elevated PID readings	The location of this trench was to investigate the area of the former water storage pits located north of the Hittman Building. This area was shown on the site videos. Fill/debris from 0’ – 3’. Numerous metallic objects in fill layer. Large sand layer.
T812	Historically Uninvestigated Area	62 feet	5 feet	Southern Perimeter	No elevated gamma readings below asphalt No elevated PID readings	The location of this trench was to investigate a known gamma ‘hotspot’. Elevated gamma readings appear to be confined to the surface.
T813	Historically Uninvestigated Area	40 feet	4 feet	Southern Perimeter	One slightly elevated gamma reading No elevated PID readings	The location of this trench was to investigate a gamma ‘hotspot’ reported in the Gamma Walkover Survey. Fill from 0’ – 2’. Elevated ‘hotspot’ area was sampled.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
EU4	**RB01**			
Radionuclides		Alpha	pCi/g	57
		Beta	pCi/g	52.9
		Cesium-137, Gamma	pCi/g	0.118
		Radium-226	pCi/g	5.13
		Radium-228, Gamma	pCi/g	1.09
		Thorium-228, Alpha	pCi/g	1.1
		Thorium-228, Gamma	pCi/g	1.12
		Thorium-230, Alpha	pCi/g	6.48
		Thorium-232, Alpha	pCi/g	0.919
		Total Uranium	µg/g	19.4
		Uranium-234, Alpha	pCi/g	5.79
		Uranium-235, Alpha	pCi/g	0.177
		Uranium-235, Gamma	pCi/g	0.304
		Uranium-238, Alpha	pCi/g	5.96
		Uranium-238, Gamma	pCi/g	5.59
EU8	**RB02**			
Radionuclides		Alpha	pCi/g	39.6
		Beta	pCi/g	19.5
		Cesium-137, Gamma	pCi/g	0.0779
		Radium-226	pCi/g	4.67
		Radium-228, Gamma	pCi/g	0.671
		Thorium-228, Alpha	pCi/g	1.06
		Thorium-228, Gamma	pCi/g	1.04
		Thorium-230, Alpha	pCi/g	5.71
		Thorium-232, Alpha	pCi/g	0.903
		Total Uranium	µg/g	25.3
		Uranium-234, Alpha	pCi/g	4.98
		Uranium-235, Alpha	pCi/g	0.287
		Uranium-238, Alpha	pCi/g	4.01
		Uranium-238, Gamma	pCi/g	5.04
EU12	**RB03**			
Radionuclides		Alpha	pCi/g	24.4
		Beta	pCi/g	16.6
		Radium-226	pCi/g	2.59
		Radium-228, Gamma	pCi/g	0.531
		Thorium-228, Alpha	pCi/g	0.666
		Thorium-228, Gamma	pCi/g	0.552
		Thorium-230, Alpha	pCi/g	3.28
		Thorium-232, Alpha	pCi/g	0.478
		Total Uranium	µg/g	7.63
		Uranium-234, Alpha	pCi/g	2.9
		Uranium-235, Gamma	pCi/g	0.166
		Uranium-238, Alpha	pCi/g	3.74
		Uranium-238, Gamma	pCi/g	3.34

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
EU14	**RB04**			
Radionuclides		Alpha	pCi/g	5.94
		Beta	pCi/g	14.9
		Potassium-40	pCi/g	13
		Radium-226	pCi/g	0.389
		Radium-228, Gamma	pCi/g	0.441
		Thorium-228, Alpha	pCi/g	0.256
		Thorium-228, Gamma	pCi/g	0.405
		Thorium-230, Alpha	pCi/g	0.349
		Thorium-232, Alpha	pCi/g	0.367
		Total Uranium	µg/g	4.15
		Uranium-234, Alpha	pCi/g	0.982
		Uranium-235, Gamma	pCi/g	0.155
		Uranium-238, Alpha	pCi/g	1.35
		Uranium-238, Gamma	pCi/g	0.821
EU8	**RB05**			
Radionuclides		Alpha	pCi/g	33.5
		Beta	pCi/g	18.1
		Cesium-137, Gamma	pCi/g	0.168
		Radium-226	pCi/g	5.13
		Radium-228, Gamma	pCi/g	0.917
		Thorium-228, Alpha	pCi/g	0.903
		Thorium-228, Gamma	pCi/g	0.977
		Thorium-230, Alpha	pCi/g	5.01
		Thorium-232, Alpha	pCi/g	0.8
		Total Uranium	µg/g	11.6
		Uranium-234, Alpha	pCi/g	3.65
		Uranium-235, Alpha	pCi/g	0.21
		Uranium-238, Alpha	pCi/g	2.64
		Uranium-238, Gamma	pCi/g	3.74
EU11	**RC01-964**			
Radionuclides		Actinium-227, Gamma	pCi/g	0.504
		Alpha	pCi/g	37.8
		Beta	pCi/g	16.8
		Cesium-137, Gamma	pCi/g	0.052
		Radium-226	pCi/g	7.31
		Radium-228, Gamma	pCi/g	0.268
		Thorium-228, Alpha	pCi/g	0.44
		Thorium-228, Gamma	pCi/g	0.378
		Thorium-230, Alpha	pCi/g	5.28
		Thorium-232, Alpha	pCi/g	0.324
		Total Uranium	µg/g	12.6
		Uranium-234, Alpha	pCi/g	4.02
		Uranium-235, Alpha	pCi/g	0.225
		Uranium-235, Gamma	pCi/g	0.402
		Uranium-238, Alpha	pCi/g	2.88
		Uranium-238, Gamma	pCi/g	3.43

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
EU11	**RC02-965**			
Radionuclides		Alpha	pCi/g	52.4
		Beta	pCi/g	26.8
		Cesium-137, Gamma	pCi/g	0.0372
		Radium-226	pCi/g	6.34
		Radium-228, Gamma	pCi/g	1.05
		Thorium-228, Alpha	pCi/g	1.23
		Thorium-228, Gamma	pCi/g	1.32
		Thorium-230, Alpha	pCi/g	7.11
		Thorium-232, Alpha	pCi/g	0.97
		Total Uranium	µg/g	22.3
		Uranium-234, Alpha	pCi/g	7.02
		Uranium-235, Alpha	pCi/g	0.348
		Uranium-235, Gamma	pCi/g	0.397
		Uranium-238, Alpha	pCi/g	5.48
		Uranium-238, Gamma	pCi/g	7.58
EU12	**RC03-966**			
Radionuclides		Actinium-227, Gamma	pCi/g	0.738
		Alpha	pCi/g	44.3
		Beta	pCi/g	27.3
		Radium-226	pCi/g	10.5
		Radium-228, Gamma	pCi/g	0.766
		Thorium-228, Alpha	pCi/g	0.49
		Thorium-228, Gamma	pCi/g	0.785
		Thorium-230, Alpha	pCi/g	3.24
		Thorium-232, Alpha	pCi/g	0.556
		Total Uranium	µg/g	9.43
		Uranium-234, Alpha	pCi/g	2.44
		Uranium-235, Alpha	pCi/g	0.138
		Uranium-235, Gamma	pCi/g	0.407
		Uranium-238, Alpha	pCi/g	2.75
		Uranium-238, Gamma	pCi/g	2.7
EU8	**RC04-968**			
Radionuclides		Alpha	pCi/g	22
		Beta	pCi/g	11.5
		Cesium-137, Gamma	pCi/g	0.0244
		Radium-226	pCi/g	3.2
		Radium-228, Gamma	pCi/g	1.22
		Thorium-228, Alpha	pCi/g	1.2
		Thorium-228, Gamma	pCi/g	1.3
		Thorium-230, Alpha	pCi/g	3.27
		Thorium-232, Alpha	pCi/g	0.692
		Total Uranium	µg/g	9.33
		Uranium-234, Alpha	pCi/g	3.27
		Uranium-235, Gamma	pCi/g	0.313
		Uranium-238, Alpha	pCi/g	2.78
		Uranium-238, Gamma	pCi/g	3.72

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
EU1	**RC05-969**			
Radionuclides		Alpha	pCi/g	27.2
		Beta	pCi/g	20.5
		Cesium-137, Gamma	pCi/g	0.0735
		Potassium-40	pCi/g	7.32
		Radium-226	pCi/g	4.47
		Radium-228, Gamma	pCi/g	0.368
		Thorium-228, Alpha	pCi/g	0.313
		Thorium-228, Gamma	pCi/g	0.353
		Thorium-230, Alpha	pCi/g	5.74
		Thorium-232, Alpha	pCi/g	0.254
		Total Uranium	µg/g	1.81
		Uranium-234, Alpha	pCi/g	0.284
		Uranium-238, Gamma	pCi/g	0.359
EU2	**RC06-970**			
Radionuclides		Alpha	pCi/g	27.4
		Beta	pCi/g	19.3
		Cesium-137, Gamma	pCi/g	0.227
		Radium-226	pCi/g	2.92
		Radium-228, Gamma	pCi/g	1.19
		Thorium-228, Alpha	pCi/g	1.42
		Thorium-228, Gamma	pCi/g	1.31
		Thorium-230, Alpha	pCi/g	4.08
		Thorium-232, Alpha	pCi/g	1.18
		Total Uranium	µg/g	9.69
		Uranium-234, Alpha	pCi/g	3.04
		Uranium-238, Alpha	pCi/g	3.02
		Uranium-238, Gamma	pCi/g	3.47
EU2	**RC07-971**			
Radionuclides		Alpha	pCi/g	24.5
		Beta	pCi/g	12.2
		Cesium-137, Gamma	pCi/g	0.057
		Radium-226	pCi/g	2.85
		Radium-228, Gamma	pCi/g	0.724
		Thorium-228, Alpha	pCi/g	1.02
		Thorium-228, Gamma	pCi/g	0.724
		Thorium-230, Alpha	pCi/g	2.81
		Thorium-232, Alpha	pCi/g	0.665
		Total Uranium	µg/g	6.52
		Uranium-234, Alpha	pCi/g	2.67
		Uranium-235, Alpha	pCi/g	0.228
		Uranium-235, Gamma	pCi/g	0.23
		Uranium-238, Alpha	pCi/g	2.77
		Uranium-238, Gamma	pCi/g	2.8

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
EU4	**RC08-972**			
Radionuclides		Actinium-227, Gamma	pCi/g	0.75
		Alpha	pCi/g	84.3
		Beta	pCi/g	62.7
		Cesium-137, Gamma	pCi/g	0.054
		Potassium-40	pCi/g	8.59
		Radium-226	pCi/g	11.7
		Radium-228, Gamma	pCi/g	1.2
		Thorium-228, Alpha	pCi/g	1.2
		Thorium-228, Gamma	pCi/g	1.41
		Thorium-230, Alpha	pCi/g	14
		Thorium-232, Alpha	pCi/g	1.18
		Total Uranium	µg/g	37
		Uranium-234, Alpha	pCi/g	14.4
		Uranium-235, Alpha	pCi/g	0.697
		Uranium-235, Gamma	pCi/g	1.07
		Uranium-238, Alpha	pCi/g	13.6
		Uranium-238, Gamma	pCi/g	14.5
EU5	**RC09-973**			
Radionuclides		Alpha	pCi/g	34.3
		Beta	pCi/g	18.2
		Cesium-137, Gamma	pCi/g	0.178
		Radium-226	pCi/g	5.42
		Radium-228, Gamma	pCi/g	0.469
		Thorium-228, Alpha	pCi/g	0.68
		Thorium-228, Gamma	pCi/g	0.644
		Thorium-230, Alpha	pCi/g	2.89
		Thorium-232, Alpha	pCi/g	0.512
		Total Uranium	µg/g	8.89
		Uranium-234, Alpha	pCi/g	2.71
		Uranium-235, Gamma	pCi/g	0.265
		Uranium-238, Alpha	pCi/g	2.76
		Uranium-238, Gamma	pCi/g	2.61
EU6	**RC10-974**			
Radionuclides		Alpha	pCi/g	24.8
		Beta	pCi/g	16.9
		Cesium-137, Gamma	pCi/g	0.308
		Radium-226	pCi/g	3.37
		Radium-228, Gamma	pCi/g	0.805
		Thorium-228, Alpha	pCi/g	0.965
		Thorium-228, Gamma	pCi/g	0.872
		Thorium-230, Alpha	pCi/g	4.15
		Thorium-232, Alpha	pCi/g	0.663
		Total Uranium	µg/g	8.03
		Uranium-234, Alpha	pCi/g	2.93
		Uranium-235, Gamma	pCi/g	0.37
		Uranium-238, Alpha	pCi/g	3.33
		Uranium-238, Gamma	pCi/g	2.39

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
EU3	**RC11-976**			
Radionuclides		Radium-226	pCi/g	0.429
		Radium-228, Gamma	pCi/g	0.132
		Thorium-228, Gamma	pCi/g	0.128
		Thorium-230, Alpha	pCi/g	0.292
		Total Uranium	µg/g	2.07
		Uranium-234, Alpha	pCi/g	0.317
		Uranium-238, Alpha	pCi/g	0.731
		Uranium-238, Gamma	pCi/g	0.345
EU5	**RC12-977**			
Radionuclides		Alpha	pCi/g	41.4
		Beta	pCi/g	21.1
		Radium-226	pCi/g	3.96
		Radium-228, Gamma	pCi/g	0.985
		Thorium-228, Alpha	pCi/g	1.22
		Thorium-228, Gamma	pCi/g	0.997
		Thorium-230, Alpha	pCi/g	4.55
		Thorium-232, Alpha	pCi/g	0.879
		Total Uranium	µg/g	10.8
		Uranium-234, Alpha	pCi/g	3.93
		Uranium-235, Alpha	pCi/g	0.148
		Uranium-235, Gamma	pCi/g	0.422
		Uranium-238, Alpha	pCi/g	4.52
		Uranium-238, Gamma	pCi/g	4.26
EU6	**RC13-978**			
Radionuclides		Alpha	pCi/g	35.2
		Beta	pCi/g	20.4
		Radium-226	pCi/g	4.67
		Radium-228, Gamma	pCi/g	0.876
		Thorium-228, Alpha	pCi/g	0.848
		Thorium-228, Gamma	pCi/g	1.02
		Thorium-230, Alpha	pCi/g	4.83
		Thorium-232, Alpha	pCi/g	0.581
		Total Uranium	µg/g	13.1
		Uranium-234, Alpha	pCi/g	5.09
		Uranium-235, Alpha	pCi/g	0.183
		Uranium-235, Gamma	pCi/g	0.391
		Uranium-238, Alpha	pCi/g	3.28
		Uranium-238, Gamma	pCi/g	5.13

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
EU6	**RC14-979**			
Radionuclides		Alpha	pCi/g	37.7
		Beta	pCi/g	20.3
		Cesium-137, Gamma	pCi/g	0.0339
		Radium-226	pCi/g	5.66
		Radium-228, Gamma	pCi/g	0.895
		Thorium-228, Alpha	pCi/g	1.17
		Thorium-228, Gamma	pCi/g	1.04
		Thorium-230, Alpha	pCi/g	3.59
		Thorium-232, Alpha	pCi/g	0.733
		Total Uranium	µg/g	8.07
		Uranium-234, Alpha	pCi/g	3.41
		Uranium-235, Alpha	pCi/g	0.207
		Uranium-235, Gamma	pCi/g	0.256
		Uranium-238, Alpha	pCi/g	3.76
		Uranium-238, Gamma	pCi/g	3.22
EU8	**RC15-2445**			
Radionuclides		Potassium-40	pCi/g	2.42
		Radium-226	pCi/g	3.27
		Radium-228, Gamma	pCi/g	0.815
		Thorium-228, Alpha	pCi/g	1.35
		Thorium-228, Gamma	pCi/g	0.847
		Thorium-230, Alpha	pCi/g	5.36
		Thorium-232, Alpha	pCi/g	1.27
		Total Uranium	µg/g	7.67
		Uranium-234, Alpha	pCi/g	3.72
		Uranium-235, Alpha	pCi/g	0.355
		Uranium-235, Gamma	pCi/g	0.323
		Uranium-238, Alpha	pCi/g	3.82
		Uranium-238, Gamma	pCi/g	3.9
EU12	**RC16-2447**			
Radionuclides		Cesium-137, Gamma	pCi/g	0.113
		Potassium-40	pCi/g	5.04
		Radium-226	pCi/g	10.5
		Radium-228, Gamma	pCi/g	0.761
		Thorium-228, Alpha	pCi/g	0.888
		Thorium-228, Gamma	pCi/g	0.759
		Thorium-230, Alpha	pCi/g	6.66
		Thorium-232, Alpha	pCi/g	0.675
		Total Uranium	µg/g	12.7
		Uranium-234, Alpha	pCi/g	5
		Uranium-235, Alpha	pCi/g	0.261
		Uranium-235, Gamma	pCi/g	0.389
		Uranium-238, Alpha	pCi/g	4.76
		Uranium-238, Gamma	pCi/g	4.65

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
EU2	**RC17-2448**			
Radionuclides		Actinium-227, Gamma	pCi/g	1.59
		Cesium-137, Gamma	pCi/g	0.236
		Potassium-40	pCi/g	1.51
		Radium-226	pCi/g	32
		Thorium-228, Alpha	pCi/g	0.537
		Thorium-228, Gamma	pCi/g	0.334
		Thorium-230, Alpha	pCi/g	2.52
		Thorium-232, Alpha	pCi/g	0.308
		Total Uranium	µg/g	5.19
		Uranium-234, Alpha	pCi/g	1.61
		Uranium-238, Alpha	pCi/g	1.73
		Uranium-238, Gamma	pCi/g	2.36
EU6	**RC18-2449**			
Radionuclides		Actinium-227, Gamma	pCi/g	5.06
		Potassium-40	pCi/g	2.92
		Radium-226	pCi/g	129
		Radium-228, Gamma	pCi/g	0.703
		Thorium-228, Alpha	pCi/g	1.04
		Thorium-228, Gamma	pCi/g	0.889
		Thorium-230, Alpha	pCi/g	34.4
		Thorium-232, Alpha	pCi/g	0.901
		Total Uranium	µg/g	24.9
		Uranium-234, Alpha	pCi/g	9.99
		Uranium-235, Alpha	pCi/g	0.462
		Uranium-235, Gamma	pCi/g	1.85
		Uranium-238, Alpha	pCi/g	8.94
EU11	**RC19-2450**			
Radionuclides		Potassium-40	pCi/g	3.01
		Radium-226	pCi/g	21.4
		Thorium-228, Gamma	pCi/g	0.2
		Thorium-230, Alpha	pCi/g	25.9
		Thorium-232, Alpha	pCi/g	0.192
		Total Uranium	µg/g	3.72
		Uranium-234, Alpha	pCi/g	1.29
		Uranium-235, Gamma	pCi/g	0.374
		Uranium-238, Alpha	pCi/g	0.815

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
EU13	**RC-CORE01-3730**			
Metals		Aluminum	mg/Kg	6530
		Antimony	mg/Kg	0.601 BN
		Arsenic	mg/Kg	5.19
		Barium	mg/Kg	44.2 *
		Beryllium	mg/Kg	0.109 B
		Boron	mg/Kg	15.9
		Cadmium	mg/Kg	0.135 B
		Calcium	mg/Kg	132000
		Chromium	mg/Kg	8.39
		Cobalt	mg/Kg	2.71
		Copper	mg/Kg	12.8 E
		Iron	mg/Kg	9270
		Lead	mg/Kg	6.64 *
		Lithium	mg/Kg	12.9 N*
		Magnesium	mg/Kg	34700
		Manganese	mg/Kg	429
		Mercury	mg/Kg	0.641 *
		Nickel	mg/Kg	8.47
		Potassium	mg/Kg	1050 EN
		Silver	mg/Kg	0.054 B
		Sodium	mg/Kg	315 E*
		Thallium	mg/Kg	0.103
		Vanadium	mg/Kg	11.4
		Zinc	mg/Kg	27.4 N*
PAHs		Benzo(a)anthracene	µg/Kg	5.48 P
		Benzo(k)fluoranthene	µg/Kg	1.55
		Chrysene	µg/Kg	2.8
		Fluoranthene	µg/Kg	10.1
		Naphthalene	µg/Kg	52.8
		Phenanthrene	µg/Kg	13.2 JP
		Pyrene	µg/Kg	10.2 P
PCBs		Aroclor-1254	µg/Kg	26000
Radionuclides		Alpha	pCi/g	4.74
		Beta	pCi/g	7.38
		Radium-226	pCi/g	0.461
		Radium-228, Gamma	pCi/g	0.309
		Thorium-228, Gamma	pCi/g	0.386
		Thorium-230, Alpha	pCi/g	0.704
		Thorium-232, Alpha	pCi/g	0.405
		Total Uranium	µg/g	1.34
		Uranium-234, Alpha	pCi/g	0.692
		Uranium-238, Alpha	pCi/g	0.558
		Uranium-238, Gamma	pCi/g	0.862

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
Semivolatile Organics		bis(2-Ethylhexyl)phthalate	µg/Kg	30.7 J
		Butylbenzylphthalate	µg/Kg	96.7 J
		Di-n-butylphthalate	µg/Kg	177 J
		m,p-Cresols	µg/Kg	411
		Naphthalene	µg/Kg	40.1
EU13	**RC-CORE02-3732**			
Metals		Aluminum	mg/Kg	5220
		Antimony	mg/Kg	1.03 BN
		Arsenic	mg/Kg	2.25
		Barium	mg/Kg	267 *
		Beryllium	mg/Kg	0.118 B
		Boron	mg/Kg	16.7
		Cadmium	mg/Kg	1.02 B
		Calcium	mg/Kg	147000
		Chromium	mg/Kg	7.66
		Cobalt	mg/Kg	1.4
		Copper	mg/Kg	11.4 E
		Iron	mg/Kg	4790
		Lead	mg/Kg	23.3 *
		Lithium	mg/Kg	9.94 N*
		Magnesium	mg/Kg	57300
		Manganese	mg/Kg	512
		Mercury	mg/Kg	0.044 *
		Nickel	mg/Kg	5.46
		Potassium	mg/Kg	899 EN
		Silver	mg/Kg	0.048 B
		Sodium	mg/Kg	212 E*
		Thallium	mg/Kg	0.044 B
		Vanadium	mg/Kg	8.7
		Zinc	mg/Kg	81.5 N*
PAHs		Phenanthrene	µg/Kg	135
PCBs		Aroclor-1254	µg/Kg	110
		Aroclor-1260	µg/Kg	39.8
Radionuclides		Alpha	pCi/g	4.87
		Beta	pCi/g	7.89
		Radium-226	pCi/g	0.373
		Radium-228, Gamma	pCi/g	0.187
		Thorium-228, Gamma	pCi/g	0.222
		Thorium-230, Alpha	pCi/g	1.07
		Thorium-232, Alpha	pCi/g	0.33
		Total Uranium	µg/g	1.1
		Uranium-234, Alpha	pCi/g	0.53
		Uranium-238, Alpha	pCi/g	0.503
		Uranium-238, Gamma	pCi/g	1.14

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
Semivolatile Organics		2-Methylnaphthalene	µg/Kg	299
		bis(2-Ethylhexyl)phthalate	µg/Kg	33.9 J
		Di-n-butylphthalate	µg/Kg	1380
		Naphthalene	µg/Kg	36.7
		Phenanthrene	µg/Kg	205
EU13	**RC-CORE03-3734**			
Metals		Aluminum	mg/Kg	5760
		Antimony	mg/Kg	0.715 BN
		Arsenic	mg/Kg	3.14
		Barium	mg/Kg	44.2 *
		Beryllium	mg/Kg	0.164 B
		Boron	mg/Kg	23.6
		Cadmium	mg/Kg	0.779 B
		Calcium	mg/Kg	147000
		Chromium	mg/Kg	8
		Cobalt	mg/Kg	2.09
		Copper	mg/Kg	13.2 E
		Iron	mg/Kg	7420
		Lead	mg/Kg	9.51 *
		Lithium	mg/Kg	6.43 N*
		Magnesium	mg/Kg	47100
		Manganese	mg/Kg	628
		Mercury	mg/Kg	0.083 *
		Nickel	mg/Kg	7.78
		Potassium	mg/Kg	2490 EN
		Silver	mg/Kg	0.105 B
		Sodium	mg/Kg	731 E*
		Thallium	mg/Kg	0.037 B
		Vanadium	mg/Kg	11.8
		Zinc	mg/Kg	69.9 N*
PAHs		Benzo(g,h,i)perylene	µg/Kg	6.53
		Dibenzo(a,h)anthracene	µg/Kg	2.91
		Fluoranthene	µg/Kg	16.7 P
		Phenanthrene	µg/Kg	54.3
		Pyrene	µg/Kg	36.5
PCBs		Aroclor-1254	µg/Kg	32.3
		Aroclor-1260	µg/Kg	26.2
Radionuclides		Alpha	pCi/g	5.93
		Beta	pCi/g	7.24
		Plutonium-239, Alpha	pCi/g	5.72
		Radium-226	pCi/g	0.392
		Radium-228, Gamma	pCi/g	0.275
		Thorium-228, Gamma	pCi/g	0.276
		Thorium-230, Alpha	pCi/g	0.983
		Thorium-232, Alpha	pCi/g	0.456
		Total Uranium	µg/g	1.01
		Uranium-234, Alpha	pCi/g	0.32
		Uranium-238, Alpha	pCi/g	0.694
		Uranium-238, Gamma	pCi/g	0.518

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
Semivolatile Organics		2-Methylnaphthalene	µg/Kg	24.3 J
		bis(2-Ethylhexyl)phthalate	µg/Kg	186 J
		Di-n-butylphthalate	µg/Kg	221 J
		Phenanthrene	µg/Kg	56.7
		Pyrene	µg/Kg	29.2 J
EU13	**RC-CORE04-3736**			
Metals		Aluminum	mg/Kg	7090
		Arsenic	mg/Kg	4.46
		Barium	mg/Kg	70.2 *
		Beryllium	mg/Kg	0.173 B
		Boron	mg/Kg	25.4
		Cadmium	mg/Kg	0.179 B
		Calcium	mg/Kg	98600
		Chromium	mg/Kg	8.68
		Cobalt	mg/Kg	3.36
		Copper	mg/Kg	18.2 E
		Iron	mg/Kg	11000
		Lead	mg/Kg	4.9 *
		Lithium	mg/Kg	9.82 N*
		Magnesium	mg/Kg	7860
		Manganese	mg/Kg	398
		Mercury	mg/Kg	0.172 *
		Nickel	mg/Kg	11.4
		Potassium	mg/Kg	1760 EN
		Silver	mg/Kg	0.058 B
		Sodium	mg/Kg	525 E*
		Thallium	mg/Kg	0.036 B
		Vanadium	mg/Kg	14.3
		Zinc	mg/Kg	63.2 N*
PAHs		Benzo(a)anthracene	µg/Kg	11.6 P
		Chrysene	µg/Kg	6.34
		Fluoranthene	µg/Kg	18.8
		Naphthalene	µg/Kg	2.96 JP
		Phenanthrene	µg/Kg	19.5
		Pyrene	µg/Kg	23.1 P
PCBs		Aroclor-1254	µg/Kg	60.7
		Aroclor-1260	µg/Kg	53.3
Radionuclides		Alpha	pCi/g	5.75
		Beta	pCi/g	10.9
		Radium-226	pCi/g	0.468
		Radium-228, Gamma	pCi/g	0.427
		Thorium-228, Alpha	pCi/g	0.63
		Thorium-228, Gamma	pCi/g	0.486
		Thorium-230, Alpha	pCi/g	1.16
		Thorium-232, Alpha	pCi/g	0.348
		Total Uranium	µg/g	3.51
		Uranium-234, Alpha	pCi/g	0.776
		Uranium-235, Alpha	pCi/g	0.134
		Uranium-238, Alpha	pCi/g	1.3

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
		Uranium-238, Gamma	pCi/g	0.775
Semivolatile Organics		Phenanthrene	µg/Kg	20.1 J
EU13	**RC-CORE05-3738**			
Metals		Aluminum	mg/Kg	6180
		Arsenic	mg/Kg	4.88
		Barium	mg/Kg	54.9 *
		Beryllium	mg/Kg	0.125 B
		Boron	mg/Kg	10.7 B
		Calcium	mg/Kg	97100
		Chromium	mg/Kg	26.1
		Cobalt	mg/Kg	3.06
		Copper	mg/Kg	17.7 E
		Iron	mg/Kg	9750
		Lead	mg/Kg	4.83 *
		Lithium	mg/Kg	8.17 N*
		Magnesium	mg/Kg	11200
		Manganese	mg/Kg	462
		Mercury	mg/Kg	0.09 *
		Nickel	mg/Kg	10.7
		Potassium	mg/Kg	1080 EN
		Silver	mg/Kg	0.048 B
		Sodium	mg/Kg	277 E*
		Thallium	mg/Kg	0.045 B
		Vanadium	mg/Kg	29.7
		Zinc	mg/Kg	39.1 N*
		Fluoranthene	µg/Kg	82.1
		Phenanthrene	µg/Kg	118 JP
Radionuclides		Alpha	pCi/g	3.77
		Beta	pCi/g	10.3
		Cesium-137, Gamma	pCi/g	0.0229
		Radium-226	pCi/g	0.482
		Radium-228, Gamma	pCi/g	0.556
		Thorium-228, Alpha	pCi/g	0.3
		Thorium-228, Gamma	pCi/g	0.582
		Thorium-230, Alpha	pCi/g	0.676
		Thorium-232, Alpha	pCi/g	0.273
		Total Uranium	µg/g	1.5
		Uranium-234, Alpha	pCi/g	0.81
		Uranium-238, Alpha	pCi/g	0.668
		Uranium-238, Gamma	pCi/g	0.845
Semivolatile Organics		2-Methylnaphthalene	µg/Kg	123 J
		bis(2-Ethylhexyl)phthalate	µg/Kg	232 J
		Di-n-butylphthalate	µg/Kg	1540
		Phenanthrene	µg/Kg	123 J

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
EU13	**RC-CORE06-3740**			
Metals		Aluminum	mg/Kg	5940
		Arsenic	mg/Kg	6.04
		Barium	mg/Kg	66.3 *
		Beryllium	mg/Kg	0.134 B
		Boron	mg/Kg	22.3
		Cadmium	mg/Kg	0.18 B
		Calcium	mg/Kg	122000
		Chromium	mg/Kg	32.1
		Cobalt	mg/Kg	3.91
		Copper	mg/Kg	19.6 E
		Iron	mg/Kg	10200
		Lead	mg/Kg	8.71 *
		Lithium	mg/Kg	8.08 N*
		Magnesium	mg/Kg	31500
		Manganese	mg/Kg	448
		Mercury	mg/Kg	0.203 *
		Nickel	mg/Kg	11.6
		Potassium	mg/Kg	1090 EN
		Silver	mg/Kg	0.04 B
		Sodium	mg/Kg	326 E*
		Thallium	mg/Kg	0.035 B
		Vanadium	mg/Kg	28
		Zinc	mg/Kg	39.6 N*
PCBs		Aroclor-1254	µg/Kg	156
Radionuclides		Alpha	pCi/g	6.74
		Beta	pCi/g	13.6
		Radium-226	pCi/g	0.381
		Radium-228, Gamma	pCi/g	0.295
		Thorium-228, Gamma	pCi/g	0.385
		Thorium-230, Alpha	pCi/g	0.799
		Total Uranium	µg/g	2.27
		Uranium-234, Alpha	pCi/g	0.584
		Uranium-238, Alpha	pCi/g	0.756
		Uranium-238, Gamma	pCi/g	1.11
Semivolatile Organics		bis(2-Ethylhexyl)phthalate	µg/Kg	1530 J
EU13	**RC-CORE07-3742**			
Metals		Aluminum	mg/Kg	5680
		Arsenic	mg/Kg	7.19
		Barium	mg/Kg	47.4 *
		Beryllium	mg/Kg	0.118 B
		Boron	mg/Kg	7.78 B
		Calcium	mg/Kg	94100
		Chromium	mg/Kg	11.9
		Cobalt	mg/Kg	3.95
		Copper	mg/Kg	14.5 E
		Iron	mg/Kg	13100
		Lead	mg/Kg	3.92 *
		Lithium	mg/Kg	8.52 N*

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
		Magnesium	mg/Kg	9230
		Manganese	mg/Kg	740
		Mercury	mg/Kg	0.009 B*
		Nickel	mg/Kg	18.7
		Potassium	mg/Kg	969 EN
		Silver	mg/Kg	0.043 B
		Sodium	mg/Kg	340 E*
		Thallium	mg/Kg	0.041 B
		Vanadium	mg/Kg	17.1
		Zinc	mg/Kg	37.7 N*
PAHs		Benzo(a)pyrene	µg/Kg	46.9 P
		Fluoranthene	µg/Kg	48.9
		Naphthalene	µg/Kg	86.1 JP
		Phenanthrene	µg/Kg	52.7 JP
Radionuclides		Alpha	pCi/g	4.35
		Beta	pCi/g	9.4
		Radium-226	pCi/g	0.681
		Radium-228, Gamma	pCi/g	0.484
		Thorium-228, Gamma	pCi/g	0.533
		Thorium-230, Alpha	pCi/g	1.39
		Total Uranium	µg/g	2.86
		Uranium-234, Alpha	pCi/g	0.889
		Uranium-238, Alpha	pCi/g	1.2
		Uranium-238, Gamma	pCi/g	0.822
Semivolatile Organics		2-Methylnaphthalene	µg/Kg	190
		bis(2-Ethylhexyl)phthalate	µg/Kg	130 J
		Di-n-butylphthalate	µg/Kg	544 J
		Naphthalene	µg/Kg	120 J
EU13	**RC-CORE08-3744**			
Metals		Aluminum	mg/Kg	6070
		Arsenic	mg/Kg	6.04
		Barium	mg/Kg	387 *
		Beryllium	mg/Kg	0.146 B
		Boron	mg/Kg	39.5
		Cadmium	mg/Kg	0.294 B
		Calcium	mg/Kg	92400
		Chromium	mg/Kg	9.01
		Cobalt	mg/Kg	3.38
		Copper	mg/Kg	29 E
		Iron	mg/Kg	10600
		Lead	mg/Kg	3.94 *
		Lithium	mg/Kg	10.3 N*
		Magnesium	mg/Kg	9450
		Manganese	mg/Kg	556
		Mercury	mg/Kg	0.29 *
		Nickel	mg/Kg	22.1
		Potassium	mg/Kg	891 EN
		Silver	mg/Kg	0.038 B
		Sodium	mg/Kg	288 E*

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
		Thallium	mg/Kg	0.036 B
		Vanadium	mg/Kg	11.8
		Zinc	mg/Kg	209 N*
PAHs		Benzo(b)fluoranthene	µg/Kg	89.2 P
		Benzo(g,h,i)perylene	µg/Kg	16.2 P
		Fluoranthene	µg/Kg	88.6
		Naphthalene	µg/Kg	8.63 J
		Phenanthrene	µg/Kg	28.7
PCBs		Aroclor-1254	µg/Kg	316
		Aroclor-1260	µg/Kg	72.2
Radionuclides		Alpha	pCi/g	8.7
		Beta	pCi/g	11.8
		Cesium-137, Gamma	pCi/g	0.374
		Radium-226	pCi/g	0.663
		Radium-228, Gamma	pCi/g	0.4
		Thorium-228, Alpha	pCi/g	0.506
		Thorium-228, Gamma	pCi/g	0.549
		Thorium-230, Alpha	pCi/g	1.43
		Thorium-232, Alpha	pCi/g	0.379
		Total Uranium	µg/g	3.52
		Uranium-234, Alpha	pCi/g	1.17
		Uranium-235, Gamma	pCi/g	0.114
		Uranium-238, Alpha	pCi/g	1.08
		Uranium-238, Gamma	pCi/g	1.49
Semivolatile Organics		Di-n-butylphthalate	µg/Kg	98.6 J
		Fluoranthene	µg/Kg	42.3
		Phenanthrene	µg/Kg	24.6 J
EU13	**RC-CORE09-3746**			
Metals		Aluminum	mg/Kg	8020
		Arsenic	mg/Kg	4.78
		Barium	mg/Kg	120 *
		Beryllium	mg/Kg	0.219 B
		Boron	mg/Kg	34.8
		Cadmium	mg/Kg	0.212 B
		Calcium	mg/Kg	73100
		Chromium	mg/Kg	8
		Cobalt	mg/Kg	2.86
		Copper	mg/Kg	16.6 E
		Iron	mg/Kg	9930
		Lead	mg/Kg	4.74 *
		Lithium	mg/Kg	11.3 N*
		Magnesium	mg/Kg	8890
		Manganese	mg/Kg	391
		Mercury	mg/Kg	0.113 *
		Nickel	mg/Kg	10.9
		Potassium	mg/Kg	1700 EN
		Silver	mg/Kg	0.071 B
		Sodium	mg/Kg	555 E*
		Thallium	mg/Kg	0.036 B

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
		Vanadium	mg/Kg	11.9
		Zinc	mg/Kg	48.9 N*
PAHs		Benzo(a)anthracene	µg/Kg	23.7
		Benzo(b)fluoranthene	µg/Kg	32.2 P
		Fluoranthene	µg/Kg	40.3
		Phenanthrene	µg/Kg	18.8
		Pyrene	µg/Kg	31.5
PCBs		Aroclor-1254	µg/Kg	156
		Aroclor-1260	µg/Kg	116
Radionuclides		Alpha	pCi/g	7.71
		Beta	pCi/g	18.2
		Cesium-137, Gamma	pCi/g	0.0195
		Radium-226	pCi/g	0.586
		Radium-228, Gamma	pCi/g	0.51
		Thorium-228, Alpha	pCi/g	0.684
		Thorium-228, Gamma	pCi/g	0.628
		Thorium-230, Alpha	pCi/g	1.09
		Thorium-232, Alpha	pCi/g	0.54
		Total Uranium	µg/g	2.02
		Uranium-234, Alpha	pCi/g	0.616
		Uranium-238, Alpha	pCi/g	0.677
		Uranium-238, Gamma	pCi/g	1.19
Semivolatile Organics		bis(2-Ethylhexyl)phthalate	µg/Kg	671
		Di-n-butylphthalate	µg/Kg	2570
		Phenanthrene	µg/Kg	26.2 J
EU13	**RC-CORE10-3748**			
Metals		Aluminum	mg/Kg	6470
		Arsenic	mg/Kg	3.73
		Barium	mg/Kg	33.4 *
		Beryllium	mg/Kg	0.127 B
		Boron	mg/Kg	109
		Calcium	mg/Kg	106000
		Chromium	mg/Kg	8.66
		Cobalt	mg/Kg	3.25
		Copper	mg/Kg	19.8 E
		Iron	mg/Kg	10900
		Lead	mg/Kg	4.9 *
		Lithium	mg/Kg	11.4 N*
		Magnesium	mg/Kg	22900
		Manganese	mg/Kg	381
		Mercury	mg/Kg	0.022 *
		Nickel	mg/Kg	10.5
		Potassium	mg/Kg	813 EN
		Silver	mg/Kg	0.047 B
		Sodium	mg/Kg	271 E*
		Thallium	mg/Kg	0.037 B
		Vanadium	mg/Kg	12.2
		Zinc	mg/Kg	35.2 N*
PAHs		Fluoranthene	µg/Kg	26.5 JP

* Data qualifier included with concentration value.

Table 4-2
Data Summary
Positive Detections - Railroad Ballast and Core Samples
Niagara Falls Storage Site Remedial Investigation

EU	Sample ID	Parameter	Units	Concentration*
PCBs		Aroclor-1254	µg/Kg	1620
Radionuclides		Alpha	pCi/g	7.35
		Beta	pCi/g	11
		Radium-226	pCi/g	0.529
		Radium-228, Gamma	pCi/g	0.325
		Thorium-228, Alpha	pCi/g	0.47
		Thorium-228, Gamma	pCi/g	0.42
		Thorium-230, Alpha	pCi/g	0.607
		Thorium-232, Alpha	pCi/g	0.295
		Total Uranium	µg/g	2.25
		Uranium-234, Alpha	pCi/g	0.652
		Uranium-235, Alpha	pCi/g	0.201
		Uranium-235, Gamma	pCi/g	0.105
		Uranium-238, Alpha	pCi/g	0.903
		Uranium-238, Gamma	pCi/g	1.02

* Data qualifier included with concentration value.

Table 4-3
Data Summary
Positive Detections - Unknown DRUM1 and DRUM2 Locations
Niagara Falls Storage Site Remedial Investigation

EU	Station	Sample ID	Sample Date	Parameter	Method	Concentration	Qualifier	Uncertainty	Units
EU2	**DRUM01**	**DRUM1-2451**	**11/19/2001**						
Metals				Aluminum		21.3	*		mg/Kg
				Arsenic		0.031	B		mg/Kg
				Barium		0.288	B		mg/Kg
				Boron		16.9			mg/Kg
				Calcium		116			mg/Kg
				Chromium		0.326	B		mg/Kg
				Copper		0.939			mg/Kg
				Iron		498			mg/Kg
				Lead		0.169	B		mg/Kg
				Lithium		3.79			mg/Kg
				Magnesium		58.9			mg/Kg
				Manganese		3.04			mg/Kg
				Nickel		1.27			mg/Kg
				Potassium		1280	E		mg/Kg
				Silver		0.028	B		mg/Kg
				Sodium		292000			mg/Kg
				Zinc		1.29			mg/Kg
PCBs				4CMX		25.2			µg/Kg
Radionuclides				Americium-241	GammaSpec	9.88		1.30	pCi/g
				Potassium-40	GammaSpec	2.91		0.78	pCi/g
				Radium-226	GammaSpec	2.32		0.38	pCi/g
				Thorium-228	AlphaSpec	0.38		0.20	pCi/g
				Thorium-230	AlphaSpec	12.8		2.57	pCi/g
				Thorium-232	AlphaSpec	0.186		0.14	pCi/g
				Total Uranium		22000		865.00	µg/g
				Uranium-233/234	AlphaSpec	7960		2160.00	pCi/g
				Uranium-235	GammaSpec	230		44.60	pCi/g
				Uranium-235/236	AlphaSpec	425		132.00	pCi/g
				Uranium-238	GammaSpec	3380		633.00	pCi/g
				Uranium-238	AlphaSpec	8010		2180.00	pCi/g

Table 4-3
Data Summary
Positive Detections - Unknown DRUM1 and DRUM2 Locations
Niagara Falls Storage Site Remedial Investigation

EU	Station	Sample ID	Sample Date	Parameter	Method	Concentration	Qualifier	Uncertainty	Units
EU4	**DRUM02**	**DRUM2-2452**	**11/19/2001**						
Metals				Aluminum		202	*		mg/Kg
				Antimony		0.71	B		mg/Kg
				Arsenic		0.453	B		mg/Kg
				Barium		8.18			mg/Kg
				Beryllium		0.032	B		mg/Kg
				Boron		238			mg/Kg
				Cadmium		0.062	B		mg/Kg
				Calcium		193000			mg/Kg
				Chromium		2.41			mg/Kg
				Cobalt		2.81			mg/Kg
				Copper		71.3			mg/Kg
				Iron		3490			mg/Kg
				Lead		6.65			mg/Kg
				Lithium		0.69	B		mg/Kg
				Magnesium		432			mg/Kg
				Manganese		44.3			mg/Kg
				Mercury		0.005	B		mg/Kg
				Nickel		397			mg/Kg
				Potassium		182	E		mg/Kg
				Selenium		0.975			mg/Kg
				Silver		0	B		mg/Kg
				Sodium		450			mg/Kg
				Vanadium		0.818			mg/Kg
				Zinc		8.03			mg/Kg
PCBs				4CMX		15.3			µg/Kg
Radionuclides				Radium-226	GammaSpec	0.673		0.10	pCi/g
				Total Uranium		0.858		0.02	µg/g
				Uranium-233/234	AlphaSpec	0.261		0.13	pCi/g
Volatile Organic Compounds				Benzene		0.25	J		µg/Kg

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
GW	**EU1**	**C5-VS-GW-D300**			
General Chemistry			Cyanide	mg/L	0.01 UJ
GW	**EU1**	**GW505-3279**			
General Chemistry			Chloride	mg/L	138
			Fluoride	mg/L	0.28
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.114
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Sulfate	mg/L	1570
			Total Organic Carbon Average	mg/L	6.11
GW	**EU1**	**GWBH61-3284**			
General Chemistry			Chloride	mg/L	73.9
			Fluoride	mg/L	0.275
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.133
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Sulfate	mg/L	1080
			Total Organic Carbon Average	mg/L	1.21
GW	**EU10**	**GWA42-3275**			
General Chemistry			Chloride	mg/L	11.6
			Fluoride	mg/L	0.122
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.0341 U
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Sulfate	mg/L	279
			Total Organic Carbon Average	mg/L	2.49
GW	**EU10**	**GWA45-3285**			
General Chemistry			Alkalinity, Total as CaCO3	mg/L	465
			Bicarbonate alkalinity (CaCO3)	mg/L	464
			Carbonate alkalinity (CaCO3)	mg/L	1.45 U
			Chloride	mg/L	48.7
			Fluoride	mg/L	0.19
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.0341 U
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Solids, Total Dissolved	mg/L	1800
			Sulfate	mg/L	777
			Total Organic Carbon Average	mg/L	2.93

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
GW	**EU10**	**GWA50-3286**			
General Chemistry			Alkalinity, Total as CaCO3	mg/L	440
			Bicarbonate alkalinity (CaCO3)	mg/L	438
			Carbonate alkalinity (CaCO3)	mg/L	1.46 J
			Chloride	mg/L	19.6
			Fluoride	mg/L	0.316
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.0341 U
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Solids, Total Dissolved	mg/L	1350
			Sulfate	mg/L	577
			Total Organic Carbon Average	mg/L	2.56
GW	**EU10**	**GWOW04B-3290**			
General Chemistry			Alkalinity, Total as CaCO3	mg/L	303
			Bicarbonate alkalinity (CaCO3)	mg/L	302
			Carbonate alkalinity (CaCO3)	mg/L	1.45 U
			Chloride	mg/L	90.4
			Fluoride	mg/L	0.521
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.161
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Solids, Total Dissolved	mg/L	1630
			Sulfate	mg/L	725
GW	**EU10**	**GWOW06B-3291**			
General Chemistry			Alkalinity, Total as CaCO3	mg/L	586
			Bicarbonate alkalinity (CaCO3)	mg/L	585
			Carbonate alkalinity (CaCO3)	mg/L	1.7 J
			Chloride	mg/L	27.3
			Fluoride	mg/L	0.308
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.0341 U
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.238
			Solids, Total Dissolved	mg/L	1490
			Sulfate	mg/L	571
			Total Organic Carbon Average	mg/L	3.28

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
GW	**EU10**	**GWOW07B-3292**			
General Chemistry			Alkalinity, Total as CaCO3	mg/L	364
			Bicarbonate alkalinity (CaCO3)	mg/L	363
			Carbonate alkalinity (CaCO3)	mg/L	1.45 U
			Chloride	mg/L	19.5
			Fluoride	mg/L	0.305
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	2.96
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Solids, Total Dissolved	mg/L	1660
			Sulfate	mg/L	773
			Total Organic Carbon Average	mg/L	2.2
GW	**EU10**	**GWOW10B-3277**			
General Chemistry			Chloride	mg/L	13.5
			Fluoride	mg/L	0.308
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.0341 U
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Sulfate	mg/L	382
			Total Organic Carbon Average	mg/L	2.09
GW	**EU10**	**GWOW15B-3288**			
General Chemistry			Alkalinity, Total as CaCO3	mg/L	332
			Bicarbonate alkalinity (CaCO3)	mg/L	331
			Carbonate alkalinity (CaCO3)	mg/L	1.49 J
			Chloride	mg/L	6.45
			Fluoride	mg/L	0.591
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	1.05
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Solids, Total Dissolved	mg/L	840
			Sulfate	mg/L	317
			Total Organic Carbon Average	mg/L	2.98
GW	**EU10**	**GWOW17B-3289**			
General Chemistry			Alkalinity, Total as CaCO3	mg/L	409
			Bicarbonate alkalinity (CaCO3)	mg/L	407
			Carbonate alkalinity (CaCO3)	mg/L	1.92 J
			Chloride	mg/L	11.3
			Fluoride	mg/L	0.324
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.099 J
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Solids, Total Dissolved	mg/L	1090
			Sulfate	mg/L	410
			Total Organic Carbon Average	mg/L	1.84

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
GW	**EU13**	**GW213A-3281**			
General Chemistry			Chloride	mg/L	6.67
			Fluoride	mg/L	1.01
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	1.27
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Sulfate	mg/L	937
			Total Organic Carbon Average	mg/L	10.5
GW	**EU13**	**GW-MW228-3616**			
General Chemistry			Alkalinity, Total as CaCO3	mg/L	427
			Bicarbonate alkalinity (CaCO3)	mg/L	426
			Carbonate alkalinity (CaCO3)	mg/L	1.45 U
			Chloride	mg/L	46.6
			Ethane	µg/L	4.77 U
			Ethene	µg/L	4.36 U
			Fluoride	mg/L	0.257
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.0341 HU
			Nitrogen, Nitrite	mg/L	0.0542 HU
			Orthophosphate	mg/L	0.151 HU
			Sulfate	mg/L	556
			Total Organic Carbon	mg/L	7.09
			Total Organic Carbon	mg/L	5.99
			Total Organic Carbon	mg/L	7
			Total Organic Carbon	mg/L	6.77
			Total Organic Carbon Average	mg/L	6.72
GW	**EU13**	**GW-MW229-3619**			
General Chemistry			Alkalinity, Total as CaCO3	mg/L	90.1
			Bicarbonate alkalinity (CaCO3)	mg/L	89.7
			Carbonate alkalinity (CaCO3)	mg/L	1.45 U
			Chloride	mg/L	104
			Ethane	µg/L	4.77 U
			Ethene	µg/L	4.36 U
			Fluoride	mg/L	0.363
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.0341 U
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Sulfate	mg/L	963
			Total Organic Carbon Average	mg/L	2.63

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
GW	**EU14**	**GW816-3282**			
General Chemistry			Chloride	mg/L	114
			Fluoride	mg/L	0.237
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.106
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Sulfate	mg/L	537
			Total Organic Carbon Average	mg/L	4.02
GW	**EU2**	**GWBH50-3283**			
General Chemistry			Chloride	mg/L	36.5
			Fluoride	mg/L	0.516
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.0341 U
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Sulfate	mg/L	510
			Total Organic Carbon Average	mg/L	3.51
GW	**EU3**	**C5-AC-GW-BP3**			
General Chemistry			Cyanide	mg/L	0.007 UJ
GW	**EU4**	**GW415A-3280**			
General Chemistry			Chloride	mg/L	139
			Fluoride	mg/L	1.13
			Methane	µg/L	39.7
			Nitrogen, Nitrate	mg/L	0.0341 U
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Sulfate	mg/L	985
			Total Organic Carbon Average	mg/L	34.9
GW	**EU4**	**GW-MW423-3613**			
General Chemistry			Ethane	µg/L	4.77 U
			Ethene	µg/L	4.36 U
			Methane	µg/L	14 U

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
GW	**EU4**	**GW-MW424-3610**			
General Chemistry			Alkalinity, Total as CaCO3	mg/L	376
			Bicarbonate alkalinity (CaCO3)	mg/L	375
			Carbonate alkalinity (CaCO3)	mg/L	1.45 U
			Chloride	mg/L	9.89
			Ethane	µg/L	4.77 U
			Ethene	µg/L	4.36 U
			Fluoride	mg/L	0.452
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.0341 HU
			Nitrogen, Nitrite	mg/L	0.0542 HU
			Orthophosphate	mg/L	0.151 HU
			Sulfate	mg/L	388
			Total Organic Carbon	mg/L	9.18
			Total Organic Carbon	mg/L	10.6
			Total Organic Carbon	mg/L	10.5
			Total Organic Carbon	mg/L	10.3
			Total Organic Carbon Average	mg/L	10.1
GW	**EU5**	**GWB02W020S-3287**			
General Chemistry			Alkalinity, Total as CaCO3	mg/L	455
			Bicarbonate alkalinity (CaCO3)	mg/L	452
			Carbonate alkalinity (CaCO3)	mg/L	2.34
			Chloride	mg/L	8.96
			Fluoride	mg/L	0.423
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.099 J
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.151 U
			Solids, Total Dissolved	mg/L	895
			Sulfate	mg/L	305
			Total Organic Carbon Average	mg/L	2.11
GW	**EU6**	**GWBH57-3278**			
General Chemistry			Chloride	mg/L	6950
			Fluoride	mg/L	0.368
			Methane	µg/L	14 U
			Nitrogen, Nitrate	mg/L	0.0341 U
			Nitrogen, Nitrite	mg/L	5.42 HU
			Orthophosphate	mg/L	0.301 HU
			Sulfate	mg/L	1870
			Total Organic Carbon Average	mg/L	0.266
GW	**EU8**	**C5-SO-GW-D800**			
General Chemistry			Cyanide	mg/L	0.007 UJ

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
GW	**EU8**	**GWBH15-3276**			
General Chemistry			Chloride	mg/L	101
			Fluoride	mg/L	0.297
			Methane	µg/L	202
			Nitrogen, Nitrate	mg/L	0.0341 U
			Nitrogen, Nitrite	mg/L	0.0542 U
			Orthophosphate	mg/L	0.3
			Sulfate	mg/L	1120
			Total Organic Carbon Average	mg/L	10.3
MHS	**EU2**	**C7-NFSS-SL-ST9**			
General Chemistry			Moisture, Percent	%	27.8
MHS	**EU4**	**C7-NFSS-SL-ST6**			
General Chemistry			Moisture, Percent	%	63
MHS	**EU8**	**C7-NFSS-SL-SS10**			
General Chemistry			Cyanide	mg/Kg	0.41 UJ
			Moisture, Percent	%	51.8
MHW	**EU10**	**MH06W-3681**			
General Chemistry			Solids, Total Dissolved	mg/L	492
			Total Suspended Solids	mg/L	41.9
MHW	**EU10**	**MH07W-3683**			
General Chemistry			Solids, Total Dissolved	mg/L	365
			Total Suspended Solids	mg/L	1.59 U
MHW	**EU11**	**MH08W-3685**			
General Chemistry			Solids, Total Dissolved	mg/L	355
			Total Suspended Solids	mg/L	1.57 U
MHW	**EU2**	**C7-NFSS-WW-ST9**			
General Chemistry			Cyanide	mg/L	0.007 UJ
MHW	**EU4**	**C7-NFSS-WW-ST6**			
General Chemistry			Cyanide	mg/L	0.007 UJ
MHW	**EU8**	**C7-NFSS-WW-SS10**			
General Chemistry			Cyanide	mg/L	0.007 U
MHW	**EU8**	**C7-NFSS-WW-SS8**			
General Chemistry			Cyanide	mg/L	0.007 U
MHW	**EU8**	**C7-NFSS-WW-SS9**			
General Chemistry			Cyanide	mg/L	0.007 U
MHW	**EU8**	**MH43W-3689**			
General Chemistry			Solids, Total Dissolved	mg/L	426
			Total Suspended Solids	mg/L	3.39 J
MHW	**EU8**	**MH45W-3687**			
General Chemistry			Solids, Total Dissolved	mg/L	494
			Total Suspended Solids	mg/L	6.3 J
PIPES	**EU4**	**C7-NFSS-SL-PIPE1**			
General Chemistry			Cyanide	mg/Kg	0.77 UJ
			Moisture, Percent	%	70.3
PIPES	**EU4**	**C7-NFSS-SL-PIPE2**			
General Chemistry			Cyanide	mg/Kg	0.5 UJ
			Moisture, Percent	%	69

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
PIPEW	**EU13**	**DRAIN01-W-3700**			
General Chemistry			Solids, Total Dissolved	mg/L	218
			Total Suspended Solids	mg/L	5.32 J
PIPEW	**EU13**	**DRAIN02-W-3702**			
General Chemistry			Solids, Total Dissolved	mg/L	93
			Total Suspended Solids	mg/L	1.47 U
PIPEW	**EU13**	**DRAIN05-W-3708**			
General Chemistry			Solids, Total Dissolved	mg/L	485
			Total Suspended Solids	mg/L	1.06 J
PIPEW	**EU8**	**PIPE74W-3693**			
General Chemistry			Solids, Total Dissolved	mg/L	503
			Total Suspended Solids	mg/L	3.91 J
SB	**EU1**	**C5-VS-SO-D300-14**			
General Chemistry			Cyanide	mg/Kg	0.23 UJ
			Moisture, Percent	%	14.3
SB	**EU1**	**SB501-144-12**			
General Chemistry			Cation Exchange Capacity	meq/Kg	17
			Total Organic Carbon	mg/Kg	19500
SB	**EU1**	**SB502-145-13**			
General Chemistry			Cation Exchange Capacity	meq/Kg	107
			Total Organic Carbon	mg/Kg	7770
			Cation Exchange Capacity	meq/Kg	16.8
			Total Organic Carbon	mg/Kg	20100
SB	**EU11**	**SB801-154-18**			
General Chemistry			Cation Exchange Capacity	meq/Kg	12.7
			Total Organic Carbon	mg/Kg	19100
SB	**EU11**	**SB802-155-17**			
General Chemistry			Cation Exchange Capacity	meq/Kg	15.3
			Total Organic Carbon	mg/Kg	16100
SB	**EU11**	**SB805-158-7.5**			
General Chemistry			Cation Exchange Capacity	meq/Kg	17.6
			Total Organic Carbon	mg/Kg	8160
SB	**EU12**	**SB204-088-9**			
General Chemistry			Cation Exchange Capacity	meq/Kg	71.5
			Total Organic Carbon	mg/Kg	3860

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
SB	**EU12**	**SB205-089-12.5**			
General Chemistry			Total Organic Carbon	mg/Kg	14500
SB	**EU12**	**SB206-090-9**			
General Chemistry			Total Organic Carbon	mg/Kg	14200
SB	**EU12**	**SB215-099-7.5**			
General Chemistry			Cation Exchange Capacity	meq/Kg	106
			Total Organic Carbon	mg/Kg	6190
SB	**EU13**	**SB201-085-10**			
General Chemistry			Total Organic Carbon	mg/Kg	7770
SB	**EU13**	**SB203-087-12**			
General Chemistry			Total Organic Carbon	mg/Kg	12200
SB	**EU13**	**SB207-091-14**			
General Chemistry			Total Organic Carbon	mg/Kg	2620
SB	**EU13**	**SB208-092-12**			
General Chemistry			Cation Exchange Capacity	meq/Kg	140
			Total Organic Carbon	mg/Kg	7570
SB	**EU13**	**SB209-093-10**			
General Chemistry			Cation Exchange Capacity	meq/Kg	86.5
			Total Organic Carbon	mg/Kg	6500
SB	**EU13**	**SB210-094-13**			
General Chemistry			Total Organic Carbon	mg/Kg	1360
SB	**EU13**	**SB211-095-11**			
General Chemistry			Cation Exchange Capacity	meq/Kg	109
			Total Organic Carbon	mg/Kg	1880
SB	**EU13**	**SB212-096-12.5**			
General Chemistry			Total Organic Carbon	mg/Kg	16700
			Cation Exchange Capacity	meq/Kg	75.9
			Total Organic Carbon	mg/Kg	12200
SB	**EU13**	**SB214-098-15**			
General Chemistry			Total Organic Carbon	mg/Kg	11500
SB	**EU13**	**SB216-100-10.5**			
General Chemistry			Total Organic Carbon	mg/Kg	14800
SB	**EU13**	**SB217-101-13**			
General Chemistry			Cation Exchange Capacity	meq/Kg	79.6
			Total Organic Carbon	mg/Kg	10100
SB	**EU14**	**SB202-086-10**			
General Chemistry			Cation Exchange Capacity	meq/Kg	152
			Total Organic Carbon	mg/Kg	2120
SB	**EU14**	**SB803-156-7.5**			
General Chemistry			Total Organic Carbon	mg/Kg	7670
			Cation Exchange Capacity	meq/Kg	87.1
			Total Organic Carbon	mg/Kg	932
SB	**EU2**	**C5-AC-SO-F200-1**			
General Chemistry			Cyanide	mg/Kg	0.22 UJ
			Moisture, Percent	%	9
SB	**EU2**	**SB401-118-20**			
General Chemistry			Total Organic Carbon	mg/Kg	9700

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
SB	**EU2**	**SB402-119-23**			
General Chemistry			Total Organic Carbon	mg/Kg	10500
SB	**EU2**	**SB403-120-18**			
General Chemistry			Cation Exchange Capacity	meq/Kg	19.9
			Total Organic Carbon	mg/Kg	19000
SB	**EU2**	**SB404-121-25**			
General Chemistry			Total Organic Carbon	mg/Kg	20900
SB	**EU2**	**SB404-121-4**			
General Chemistry			Total Organic Carbon	mg/Kg	11300
SB	**EU2**	**SB405-122-25**			
General Chemistry			Cation Exchange Capacity	meq/Kg	6.97
			Total Organic Carbon	mg/Kg	20900
SB	**EU2**	**SB406-123-18**			
General Chemistry			Cation Exchange Capacity	meq/Kg	74.2
			Total Organic Carbon	mg/Kg	11600
SB	**EU2**	**SB808-161-15**			
General Chemistry			Total Organic Carbon	mg/Kg	7540
SB	**EU2**	**SB809-162-18**			
General Chemistry			Cation Exchange Capacity	meq/Kg	32.1
			Total Organic Carbon	mg/Kg	6560
SB	**EU2**	**SB810-163-12.0**			
General Chemistry			Total Organic Carbon	mg/Kg	3920
SB	**EU3**	**C5-AC-SO-BP3-14**			
General Chemistry			Cyanide	mg/Kg	0.25 UJ
			Moisture, Percent	%	13.3
SB	**EU3**	**SB407-124-20**			
General Chemistry			Total Organic Carbon	mg/Kg	13800
SB	**EU3**	**SB408-125-20**			
General Chemistry			Total Organic Carbon	mg/Kg	3240
SB	**EU3**	**SB409-126-7.5**			
General Chemistry			Cation Exchange Capacity	meq/Kg	107
SB	**EU4**	**C7-NFSS-SO-PIPE1**			
General Chemistry			Cyanide	mg/Kg	0.23 UJ
			Moisture, Percent	%	13.7

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
SB	**EU4**	**C7-NFSS-SO-PIPE2**			
General Chemistry			Cyanide	mg/Kg	0.22 UJ
			Moisture, Percent	%	7.1
SB	**EU4**	**SB410-128-11**			
General Chemistry			Total Organic Carbon	mg/Kg	10800
SB	**EU4**	**SB411-129-20**			
General Chemistry			Cation Exchange Capacity	meq/Kg	80.4
			Total Organic Carbon	mg/Kg	11200
SB	**EU4**	**SB412-130-15**			
General Chemistry			Total Organic Carbon	mg/Kg	3520
SB	**EU4**	**SB413-131-19**			
General Chemistry			Cation Exchange Capacity	meq/Kg	85.3
			Total Organic Carbon	mg/Kg	8300
SB	**EU4**	**SB414-135-21**			
General Chemistry			Total Organic Carbon	mg/Kg	765
SB	**EU4**	**SB415-136-14**			
General Chemistry			Cation Exchange Capacity	meq/Kg	80
			Total Organic Carbon	mg/Kg	9870
SB	**EU4**	**SB416-137-21**			
General Chemistry			Total Organic Carbon	mg/Kg	4500
SB	**EU4**	**SB417-138-8.9**			
General Chemistry			Cation Exchange Capacity	meq/Kg	101
			Total Organic Carbon	mg/Kg	12900
SB	**EU4**	**SB418-140-19**			
General Chemistry			Cation Exchange Capacity	meq/Kg	74.6
			Total Organic Carbon	mg/Kg	11300
SB	**EU4**	**SB419-141-17**			
General Chemistry			Total Organic Carbon	mg/Kg	2960
SB	**EU5**	**SB420-142-7**			
General Chemistry			Total Organic Carbon	mg/Kg	12000
SB	**EU5**	**SB421-143-16**			
General Chemistry			Total Organic Carbon	mg/Kg	4370
SB	**EU5**	**SB601-150-13**			
General Chemistry			Total Organic Carbon	mg/Kg	965
SB	**EU5**	**SB811-164-23**			
General Chemistry			Cation Exchange Capacity	meq/Kg	110
			Total Organic Carbon	mg/Kg	1250
SB	**EU6**	**SB602-151-15**			
General Chemistry			Cation Exchange Capacity	meq/Kg	56
			Total Organic Carbon	mg/Kg	10500
SB	**EU6**	**SB604-153-15**			
General Chemistry			Total Organic Carbon	mg/Kg	12100
SB	**EU6**	**SB812-165-10**			
General Chemistry			Total Organic Carbon	mg/Kg	16900
SB	**EU7**	**SB806-159-18.9**			
General Chemistry			Total Organic Carbon	mg/Kg	7620

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
SB	**EU7**	**SB807-160-18.2**			
General Chemistry			Cation Exchange Capacity	meq/Kg	14.4
			Total Organic Carbon	mg/Kg	16700
SB	**EU8**	**C5-SO-SO-D200-8**			
General Chemistry			Cyanide	mg/Kg	0.24 UJ
			Moisture, Percent	%	26.2
SB	**EU8**	**C5-SO-SO-D800-1**			
General Chemistry			Cyanide	mg/Kg	0.23 UJ
			Moisture, Percent	%	15.3
SB	**EU8**	**C5-SO-SO-D800-10**			
General Chemistry			Cyanide	mg/Kg	0.23 UJ
			Moisture, Percent	%	14.8
SB	**EU8**	**SB301-103-10**			
General Chemistry			Total Organic Carbon	mg/Kg	1580
SB	**EU8**	**SB302-104-11**			
General Chemistry			Cation Exchange Capacity	meq/Kg	70.8
			Total Organic Carbon	mg/Kg	5570
SB	**EU8**	**SB303-105-8**			
General Chemistry			Cation Exchange Capacity	meq/Kg	63.5
			Total Organic Carbon	mg/Kg	8480
SB	**EU8**	**SB305-110-12.5**			
General Chemistry			Cation Exchange Capacity	meq/Kg	109
			Total Organic Carbon	mg/Kg	1280
SB	**EU8**	**SB306-111-12.5**			
General Chemistry			Total Organic Carbon	mg/Kg	830
SB	**EU8**	**SB307-112-10**			
General Chemistry			Total Organic Carbon	mg/Kg	3260
SB	**EU8**	**SB308-113-19**			
General Chemistry			Cation Exchange Capacity	meq/Kg	58.5
			Total Organic Carbon	mg/Kg	6130
SB	**EU8**	**SB309-114-19**			
General Chemistry			Cation Exchange Capacity	meq/Kg	76.1
			Total Organic Carbon	mg/Kg	11800
SB	**EU8**	**SB310-115-8.5**			
General Chemistry			Total Organic Carbon	mg/Kg	876
SB	**EU8**	**SB311-116-13**			
General Chemistry			Total Organic Carbon	mg/Kg	9950
SB	**EU8**	**SB312-117-15**			
General Chemistry			Total Organic Carbon	mg/Kg	11200
SB	**NA**	**C3-VS-SO-BP3-15**			
General Chemistry			Cyanide	mg/Kg	0.071 UJ
SD	**EU1**	**SD712-319**			
General Chemistry			Cation Exchange Capacity	meq/Kg	85.6 N
			Total Organic Carbon	mg/Kg	14700
SD	**EU1**	**SD713-324**			
General Chemistry			Cation Exchange Capacity	meq/Kg	120
			Total Organic Carbon	mg/Kg	4090

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
SD	**EU1**	**SD714-326**			
General Chemistry			Cation Exchange Capacity	meq/Kg	166
			Total Organic Carbon	mg/Kg	23100
SD	**EU10**	**SD701-293**			
General Chemistry			Cation Exchange Capacity	meq/Kg	160 N
			Total Organic Carbon	mg/Kg	6160
SD	**EU10**	**SD702-295**			
General Chemistry			Cation Exchange Capacity	meq/Kg	172 N
			Total Organic Carbon	mg/Kg	9150
SD	**EU10**	**SD703-297**			
General Chemistry			Cation Exchange Capacity	meq/Kg	162 N
			Total Organic Carbon	mg/Kg	7010
SD	**EU10**	**SD705-304**			
General Chemistry			Total Organic Carbon	mg/Kg	10200
SD	**EU10**	**SD706-306**			
General Chemistry			Total Organic Carbon	mg/Kg	15000
SD	**EU10**	**SD707-308**			
General Chemistry			Total Organic Carbon	mg/Kg	12900
SD	**EU11**	**SD704-302**			
General Chemistry			Cation Exchange Capacity	meq/Kg	117 N
			Total Organic Carbon	mg/Kg	12100
SD	**EU11**	**SD716-330**			
General Chemistry			Total Organic Carbon	mg/Kg	4310
SD	**EU12**	**SD719-341**			
General Chemistry			Total Organic Carbon	mg/Kg	26700
SD	**EU12**	**SD720-343**			
General Chemistry			Total Organic Carbon	mg/Kg	15800
SD	**EU12**	**SD721-345**			
General Chemistry			Total Organic Carbon	mg/Kg	10400
SD	**EU14**	**SD715-328**			
General Chemistry			Cation Exchange Capacity	meq/Kg	97.9
			Total Organic Carbon	mg/Kg	2170
SD	**EU14**	**SD717-333**			
General Chemistry			Cation Exchange Capacity	meq/Kg	70.3
			Total Organic Carbon	mg/Kg	40500
SD	**EU14**	**SD718-338**			
General Chemistry			Cation Exchange Capacity	meq/Kg	316 N
			Total Organic Carbon	mg/Kg	16800
SD	**EU2**	**SD709-313**			
General Chemistry			Total Organic Carbon	mg/Kg	65700
SD	**EU2**	**SD710-315**			
General Chemistry			Cation Exchange Capacity	meq/Kg	502
			Total Organic Carbon	mg/Kg	16000
SD	**EU5**	**SD726-355**			
General Chemistry			Total Organic Carbon	mg/Kg	2610
SD	**EU5**	**SD727-357**			
General Chemistry			Total Organic Carbon	mg/Kg	1970

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
SD	**EU5**	**SD728-359**			
General Chemistry			Total Organic Carbon	mg/Kg	11100
SD	**EU5**	**SD729-364**			
General Chemistry			Cation Exchange Capacity	meq/Kg	49.8
			Total Organic Carbon	mg/Kg	5590
SD	**EU5**	**SD730-366**			
General Chemistry			Total Organic Carbon	mg/Kg	23200
SD	**EU5**	**SD735-377**			
General Chemistry			Cation Exchange Capacity	meq/Kg	338
			Total Organic Carbon	mg/Kg	14200
SD	**EU5**	**SD736-379**			
General Chemistry			Total Organic Carbon	mg/Kg	5390
SD	**EU5**	**SD737-381**			
General Chemistry			Total Organic Carbon	mg/Kg	17300
SD	**EU5**	**SD738-383**			
General Chemistry			Total Organic Carbon	mg/Kg	564
SD	**EU5**	**SD739-385**			
General Chemistry			Cation Exchange Capacity	meq/Kg	66.1
			Total Organic Carbon	mg/Kg	1490
SD	**EU6**	**SD731-368**			
General Chemistry			Cation Exchange Capacity	meq/Kg	155
			Total Organic Carbon	mg/Kg	9700
SD	**EU6**	**SD732-370**			
General Chemistry			Cation Exchange Capacity	meq/Kg	415
			Total Organic Carbon	mg/Kg	12800

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
SD	**EU6**	**SD733-373**			
General Chemistry			Cation Exchange Capacity	meq/Kg	417
			Total Organic Carbon	mg/Kg	11700
SD	**EU6**	**SD734-375**			
General Chemistry			Cation Exchange Capacity	meq/Kg	614
			Total Organic Carbon	mg/Kg	26200
SD	**EU7**	**SD708-311**			
General Chemistry			Total Organic Carbon	mg/Kg	11800
SD	**EU7**	**SD711-317**			
General Chemistry			Total Organic Carbon	mg/Kg	10700
SD	**EU8**	**SD722-347**			
General Chemistry			Cation Exchange Capacity	meq/Kg	116
			Total Organic Carbon	mg/Kg	8150
SD	**EU8**	**SD723-349**			
General Chemistry			Cation Exchange Capacity	meq/Kg	192
			Total Organic Carbon	mg/Kg	14700
SD	**EU8**	**SD724-351**			
General Chemistry			Total Organic Carbon	mg/Kg	6660
SD	**EU8**	**SD725-353**			
General Chemistry			Total Organic Carbon	mg/Kg	31400
SS	**EU1**	**C5-VS-SO-B300-1**			
General Chemistry			Cyanide	mg/Kg	0.23 UJ
			Moisture, Percent	%	13.9
			Total Organic Carbon	mg/Kg	28700 J
SS	**EU1**	**SS501-059**			
General Chemistry			Cation Exchange Capacity	meq/Kg	34.4
			Total Organic Carbon	mg/Kg	21900
SS	**EU1**	**SS502-060**			
General Chemistry			Cation Exchange Capacity	meq/Kg	357
			Total Organic Carbon	mg/Kg	21900
SS	**EU1**	**SS503-064**			
General Chemistry			Cation Exchange Capacity	meq/Kg	44.2
			Total Organic Carbon	mg/Kg	32700
SS	**EU11**	**SS801-070**			
General Chemistry			Cation Exchange Capacity	meq/Kg	16.3
			Total Organic Carbon	mg/Kg	24200
SS	**EU11**	**SS802-071**			
General Chemistry			Cation Exchange Capacity	meq/Kg	23.1
			Total Organic Carbon	mg/Kg	21800
SS	**EU11**	**SS805-074**			
General Chemistry			Cation Exchange Capacity	meq/Kg	30
			Total Organic Carbon	mg/Kg	11300
SS	**EU12**	**SS204-004**			
General Chemistry			Cation Exchange Capacity	meq/Kg	382
			Total Organic Carbon	mg/Kg	253000
SS	**EU12**	**SS205-008**			
General Chemistry			Total Organic Carbon	mg/Kg	29600

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
SS	**EU12**	**SS206-009**			
General Chemistry			Total Organic Carbon	mg/Kg	31600
SS	**EU12**	**SS215-019**			
General Chemistry			Cation Exchange Capacity	meq/Kg	246
			Total Organic Carbon	mg/Kg	7720
SS	**EU13**	**SS201-001**			
General Chemistry			Total Organic Carbon	mg/Kg	149000
SS	**EU13**	**SS203-003**			
General Chemistry			Total Organic Carbon	mg/Kg	109000
SS	**EU13**	**SS207-010**			
General Chemistry			Total Organic Carbon	mg/Kg	24500
SS	**EU13**	**SS208-011**			
General Chemistry			Cation Exchange Capacity	meq/Kg	171
			Total Organic Carbon	mg/Kg	54900
SS	**EU13**	**SS209-012**			
General Chemistry			Cation Exchange Capacity	meq/Kg	185
			Total Organic Carbon	mg/Kg	17000
SS	**EU13**	**SS210-014**			
General Chemistry			Total Organic Carbon	mg/Kg	13200
SS	**EU13**	**SS211-015**			
General Chemistry			Cation Exchange Capacity	meq/Kg	235
			Total Organic Carbon	mg/Kg	51200
SS	**EU13**	**SS212-016**			
General Chemistry			Total Organic Carbon	mg/Kg	17400
SS	**EU13**	**SS213-017**			
General Chemistry			Cation Exchange Capacity	meq/Kg	179
			Total Organic Carbon	mg/Kg	15600
SS	**EU13**	**SS214-018**			
General Chemistry			Total Organic Carbon	mg/Kg	15800
SS	**EU13**	**SS216-020**			
General Chemistry			Total Organic Carbon	mg/Kg	20200
SS	**EU13**	**SS217-021**			
General Chemistry			Cation Exchange Capacity	meq/Kg	194
			Total Organic Carbon	mg/Kg	30400

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
SS	**EU14**	**SS202-002**			
General Chemistry			Cation Exchange Capacity	meq/Kg	142
			Total Organic Carbon	mg/Kg	4910
SS	**EU14**	**SS803-072**			
General Chemistry			Total Organic Carbon	mg/Kg	7120
SS	**EU14**	**SS804-073**			
General Chemistry			Cation Exchange Capacity	meq/Kg	654
			Total Organic Carbon	mg/Kg	29600
SS	**EU2**	**SS401-037**			
General Chemistry			Total Organic Carbon	mg/Kg	18900
SS	**EU2**	**SS402-039**			
General Chemistry			Total Organic Carbon	mg/Kg	4350
SS	**EU2**	**SS403-040**			
General Chemistry			Cation Exchange Capacity	meq/Kg	24.8
			Total Organic Carbon	mg/Kg	24600
SS	**EU2**	**SS404-041**			
General Chemistry			Total Organic Carbon	mg/Kg	30000
SS	**EU2**	**SS405-042**			
General Chemistry			Cation Exchange Capacity	meq/Kg	38
			Total Organic Carbon	mg/Kg	22400
SS	**EU2**	**SS406-043**			
General Chemistry			Cation Exchange Capacity	meq/Kg	191
			Total Organic Carbon	mg/Kg	35000
SS	**EU2**	**SS808-077**			
General Chemistry			Total Organic Carbon	mg/Kg	29300
SS	**EU2**	**SS809-078**			
General Chemistry			Total Organic Carbon	mg/Kg	21000
SS	**EU2**	**SS810-079**			
General Chemistry			Total Organic Carbon	mg/Kg	15300
SS	**EU3**	**SS407-044**			
General Chemistry			Total Organic Carbon	mg/Kg	32400
SS	**EU3**	**SS408-045**			
General Chemistry			Total Organic Carbon	mg/Kg	19000
SS	**EU3**	**SS409-046**			
General Chemistry			Cation Exchange Capacity	meq/Kg	175
			Total Organic Carbon	mg/Kg	11600
SS	**EU4**	**SS410-047**			
General Chemistry			Total Organic Carbon	mg/Kg	13400
SS	**EU4**	**SS411-048**			
General Chemistry			Cation Exchange Capacity	meq/Kg	123
			Total Organic Carbon	mg/Kg	14400
SS	**EU4**	**SS412-049**			
General Chemistry			Total Organic Carbon	mg/Kg	47400
SS	**EU4**	**SS413-050**			
General Chemistry			Cation Exchange Capacity	meq/Kg	267
			Total Organic Carbon	mg/Kg	32700
SS	**EU4**	**SS414-051**			
General Chemistry			Total Organic Carbon	mg/Kg	19200

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
SS	**EU4**	**SS415-052**			
General Chemistry			Cation Exchange Capacity	meq/Kg	247
			Total Organic Carbon	mg/Kg	23800
SS	**EU4**	**SS416-053**			
General Chemistry			Total Organic Carbon	mg/Kg	13500
SS	**EU4**	**SS417-054**			
General Chemistry			Cation Exchange Capacity	meq/Kg	129
			Total Organic Carbon	mg/Kg	21400
SS	**EU4**	**SS418-055**			
General Chemistry			Cation Exchange Capacity	meq/Kg	241
			Total Organic Carbon	mg/Kg	43400
SS	**EU4**	**SS419-056**			
General Chemistry			Total Organic Carbon	mg/Kg	11400
SS	**EU5**	**SS420-057**			
General Chemistry			Total Organic Carbon	mg/Kg	19100
SS	**EU5**	**SS421-058**			
General Chemistry			Total Organic Carbon	mg/Kg	3280
SS	**EU5**	**SS601-065**			
General Chemistry			Total Organic Carbon	mg/Kg	15600
SS	**EU5**	**SS811-080**			
General Chemistry			Cation Exchange Capacity	meq/Kg	274
			Total Organic Carbon	mg/Kg	14100
SS	**EU6**	**SS602-066**			
General Chemistry			Cation Exchange Capacity	meq/Kg	144
			Total Organic Carbon	mg/Kg	2400
SS	**EU6**	**SS603-068**			
General Chemistry			Cation Exchange Capacity	meq/Kg	218
			Total Organic Carbon	mg/Kg	7650
SS	**EU6**	**SS604-069**			
General Chemistry			Total Organic Carbon	mg/Kg	4360
SS	**EU6**	**SS812-084**			
General Chemistry			Total Organic Carbon	mg/Kg	15700
SS	**EU7**	**SS806-075**			
General Chemistry			Cation Exchange Capacity	meq/Kg	45.3
			Total Organic Carbon	mg/Kg	28100
SS	**EU7**	**SS807-076**			
General Chemistry			Cation Exchange Capacity	meq/Kg	25.5
			Total Organic Carbon	mg/Kg	18100
SS	**EU8**	**SS301-025**			
General Chemistry			Total Organic Carbon	mg/Kg	2330
SS	**EU8**	**SS302-026**			
General Chemistry			Cation Exchange Capacity	meq/Kg	183
			Total Organic Carbon	mg/Kg	9030
SS	**EU8**	**SS303-027**			
General Chemistry			Cation Exchange Capacity	meq/Kg	171
			Total Organic Carbon	mg/Kg	25300
SS	**EU8**	**SS304-028**			
General Chemistry			Total Organic Carbon	mg/Kg	10800

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
SS	**EU8**	**SS305-029**			
General Chemistry			Cation Exchange Capacity	meq/Kg	264
			Total Organic Carbon	mg/Kg	17200
SS	**EU8**	**SS306-030**			
General Chemistry			Total Organic Carbon	mg/Kg	30500
SS	**EU8**	**SS307-031**			
General Chemistry			Total Organic Carbon	mg/Kg	32500
SS	**EU8**	**SS308-032**			
General Chemistry			Cation Exchange Capacity	meq/Kg	170
			Total Organic Carbon	mg/Kg	65100
SS	**EU8**	**SS309-033**			
General Chemistry			Cation Exchange Capacity	meq/Kg	277
			Total Organic Carbon	mg/Kg	33100
SS	**EU8**	**SS310-034**			
General Chemistry			Total Organic Carbon	mg/Kg	8330
SS	**EU8**	**SS311-035**			
General Chemistry			Total Organic Carbon	mg/Kg	80400
SS	**EU8**	**SS312-036**			
General Chemistry			Total Organic Carbon	mg/Kg	54900
SS	**NA**	**C3-VS-SO-BP3-0.5**			
General Chemistry			Cyanide	mg/Kg	0.076 UJ
SUMPS	**EU4**	**C7-NFSS-SL-SUMP1**			
General Chemistry			Cyanide	mg/Kg	0.66 UJ
			Moisture, Percent	%	60.1
SUMPS	**EU4**	**C7-NFSS-SL-SUMP2**			
General Chemistry			Cyanide	mg/Kg	0.42 UJ
			Moisture, Percent	%	46.4
SW	**EU1**	**SW713-323**			
General Chemistry			Total Organic Carbon	mg/L	10.6
SW	**EU10**	**C9-4-SW-1**			
General Chemistry			Chloride	mg/L	90 E
			Fluoride	mg/L	2.4
			Nitrogen, Ammonia	mg/L	0.1 J
			Nitrogen, Nitrate	mg/L	0.002 U
			Nitrogen, Nitrite	mg/L	0.015 U
			Nitrogen, Total Kjeldahl	mg/L	1.3 J
			Orthophosphate	mg/L	0.097 U
			Oxygen Demand, Biological	mg/L	19.4 J
			Oxygen Demand, Chemical	mg/L	71.7
			Phosphorus, Total	mg/L	0.37
			Solids, Total Dissolved	mg/L	125
			Sulfate	mg/L	240 E
			Sulfide, Total	mg/L	0.45 U

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
SW	**EU10**	**C9-4-SW-2**			
General Chemistry			Chloride	mg/L	150 E
			Fluoride	mg/L	1
			Nitrogen, Ammonia	mg/L	0.33
			Nitrogen, Nitrate	mg/L	0.17
			Nitrogen, Nitrite	mg/L	0.015 U
			Nitrogen, Total Kjeldahl	mg/L	0.57
			Orthophosphate	mg/L	0.097 U
			Oxygen Demand, Biological	mg/L	2.2
			Oxygen Demand, Chemical	mg/L	56.8
			Phosphorus, Total	mg/L	0.1
			Solids, Total Dissolved	mg/L	26
			Sulfate	mg/L	760 E
			Sulfide, Total	mg/L	0.45 U
SW	**EU10**	**SW707-307**			
General Chemistry			Total Organic Carbon	mg/L	9.25
SW	**EU12**	**SW720-342**			
General Chemistry			Total Organic Carbon	mg/L	10.8
SW	**EU2**	**SW710-314**			
General Chemistry			Total Organic Carbon	mg/L	10.4
SW	**EU5**	**SW729-363**			
General Chemistry			Total Organic Carbon	mg/L	11.5
SW	**EU5**	**SW738-382**			
General Chemistry			Total Organic Carbon	mg/L	6.6

* Data qualifier included with concentration value.

Table 4-4
Data Summary
General Chemistry Parameters
Niagara Falls Storage Site Remedial Investigation

Matrix	EU	Sample ID	Parameter	Units	Concentration*
SW	**EU7**	**C9-4-SW-3**			
General Chemistry			Chloride	mg/L	200 E
			Fluoride	mg/L	0.61
			Nitrogen, Ammonia	mg/L	0.08
			Nitrogen, Nitrate	mg/L	0.3
			Nitrogen, Nitrite	mg/L	0.015 U
			Nitrogen, Total Kjeldahl	mg/L	1.1
			Orthophosphate	mg/L	0.097 U
			Oxygen Demand, Biological	mg/L	3
			Oxygen Demand, Chemical	mg/L	47.8
			Phosphorus, Total	mg/L	0.36
			Solids, Total Dissolved	mg/L	78
			Sulfate	mg/L	1100 E
			Sulfide, Total	mg/L	0.45 U

* Data qualifier included with concentration value.

Table 4-5
Background Surface Soil (0-0.5') Summary Statistics
Niagara Falls Storage Site Remedial Investigation [1]

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
General Chemistry							
Moisture, Percent	%	1/ 1	14.6	14.6	14.6		D
Percent Solids	%	4/ 4	76.9	82.5	82.5		D
Total Organic Carbon	mg/Kg	15/ 15	8150	47300	48300	47300	N
Nitroaromatics							
1,3,5-Trinitrobenzene	µg/Kg	0/ 1					O
2,4,6-Trinitrotoluene	µg/Kg	0/ 1					O
2,4-Dinitrotoluene	µg/Kg	0/ 16					O
2,6-Dinitrotoluene	µg/Kg	0/ 16					O
2-Amino-4,6-dinitrotoluene	µg/Kg	0/ 1					O
2-Nitrotoluene	µg/Kg	0/ 1					O
3-Nitrotoluene	µg/Kg	0/ 1					O
4-Amino-2,6-dinitrotoluene	µg/Kg	0/ 1					O
4-Nitrotoluene	µg/Kg	0/ 1					O
HMX	µg/Kg	0/ 1					O
m-Dinitrobenzene	µg/Kg	0/ 1					O
Nitrobenzene	µg/Kg	0/ 16					O
RDX	µg/Kg	0/ 1					O
Tetryl	µg/Kg	0/ 1					O
Metals							
Aluminum	mg/Kg	16/ 16	4380	18400	21800	18400	N
Antimony	mg/Kg	6/ 16	0.26	0.94	0.94	0.94	D
Arsenic	mg/Kg	15/ 15	2.3	11.4	11.3	11.3	G
Barium	mg/Kg	16/ 16	45.2	279	375	279	G
Beryllium	mg/Kg	16/ 16	0.18	1	1.21	1	N
Boron	mg/Kg	12/ 16	1.7	10.1	15.8	10.1	G
Cadmium	mg/Kg	8/ 16	0.04	0.53	1.21	0.53	L
Calcium	mg/Kg	16/ 16	994	45200	60300	45200	L
Chromium	mg/Kg	16/ 16	5.3	24.3	29.9	24.3	N
Cobalt	mg/Kg	16/ 16	2.2	57.4	65.5	57.4	G
Copper	mg/Kg	16/ 16	4.4	34.7	43.1	34.7	N
Cyanide	mg/Kg	0/ 1					O
Iron	mg/Kg	16/ 16	6240	36400	43500	36400	N
Lead	mg/Kg	15/ 15	4.7	55.2	66.4	55.2	G
Lithium	mg/Kg	16/ 16	4.6	27.9	34.4	27.9	N
Magnesium	mg/Kg	16/ 16	931	10200	11500	10200	N
Manganese	mg/Kg	16/ 16	70	6650	5630	5630	L
Mercury	mg/Kg	9/ 16	0.03	0.27	0.27	0.27	X
Nickel	mg/Kg	16/ 16	5.8	37.5	41	37.5	N
Potassium	mg/Kg	16/ 16	138	1820	2050	1820	N
Selenium	mg/Kg	7/ 15	0.21	0.37	0.37	0.37	D
Silver	mg/Kg	2/ 16	0.27	0.27	0.27	0.27	D
Sodium	mg/Kg	16/ 16	51.7	286	286	286	X
Thallium	mg/Kg	0/ 16					O
Vanadium	mg/Kg	16/ 16	9.9	34	40.3	34	N
Zinc	mg/Kg	16/ 16	23.1	78	92	78	N

Table 4-5
Background Surface Soil (0-0.5') Summary Statistics
Niagara Falls Storage Site Remedial Investigation [1]

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
PAHs							
Acenaphthene	µg/Kg	0/ 16					O
Acenaphthylene	µg/Kg	0/ 16					O
Anthracene	µg/Kg	0/ 16					O
Benzo(a)anthracene	µg/Kg	2/ 16	208	284	284	284	D
Benzo(a)pyrene	µg/Kg	1/ 16	313	313	313	313	D
Benzo(b)fluoranthene	µg/Kg	3/ 16	2.5	396	396	396	D
Benzo(g,h,i)perylene	µg/Kg	0/ 16					O
Benzo(k)fluoranthene	µg/Kg	3/ 16	0.74	322	322	322	D
Chrysene	µg/Kg	2/ 16	303	378	378	378	D
Dibenzo(a,h)anthracene	µg/Kg	0/ 16					O
Fluoranthene	µg/Kg	3/ 16	2.3	889	889	889	D
Fluorene	µg/Kg	0/ 16					O
Indeno(1,2,3-cd)pyrene	µg/Kg	0/ 16					O
Naphthalene	µg/Kg	0/ 16					O
Phenanthrene	µg/Kg	1/ 16	538	538	538	538	D
Pyrene	µg/Kg	3/ 16	1.5	716	716	716	D
PCBs							
Aroclor-1016	µg/Kg	0/ 1					O
Aroclor-1221	µg/Kg	0/ 1					O
Aroclor-1232	µg/Kg	0/ 1					O
Aroclor-1242	µg/Kg	0/ 1					O
Aroclor-1248	µg/Kg	0/ 1					O
Aroclor-1254	µg/Kg	0/ 1					O
Aroclor-1260	µg/Kg	0/ 1					O
Pesticides							
4,4'-DDD	µg/Kg	0/ 1					O
4,4'-DDE	µg/Kg	0/ 1					O
4,4'-DDT	µg/Kg	0/ 1					O
Aldrin	µg/Kg	0/ 1					O
alpha-BHC	µg/Kg	0/ 1					O
alpha-Chlordane	µg/Kg	0/ 1					O
beta-BHC	µg/Kg	0/ 1					O
delta-BHC	µg/Kg	0/ 1					O
Dieldrin	µg/Kg	0/ 1					O
Endosulfan I	µg/Kg	0/ 1					O
Endosulfan II	µg/Kg	0/ 1					O
Endosulfan sulfate	µg/Kg	0/ 1					O
Endrin	µg/Kg	0/ 1					O
Endrin aldehyde	µg/Kg	0/ 1					O
Endrin ketone	µg/Kg	0/ 1					O
gamma-BHC (Lindane)	µg/Kg	0/ 1					O
gamma-Chlordane	µg/Kg	0/ 1					O
Heptachlor	µg/Kg	0/ 1					O
Heptachlor epoxide	µg/Kg	0/ 1					O
Methoxychlor	µg/Kg	0/ 1					O
Toxaphene	µg/Kg	0/ 1					O

Table 4-5
Background Surface Soil (0-0.5') Summary Statistics
Niagara Falls Storage Site Remedial Investigation [1]

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Radionuclides							
Actinium-227	pCi/g	0/ 15				0.08*	O
Alpha	pCi/g	4/ 4	10.4	13.9	13.9		D
Americium-241	pCi/g	0/ 15					O
Beta	pCi/g	4/ 4	21.4	27.5	27.5		D
Cesium-137	pCi/g	13/ 15	0.03	0.34	0.37	0.34	N
Cobalt-60	pCi/g	0/ 15					O
Potassium-40	pCi/g	11/ 11	10	31.1	34.2	31.1	N
Protactinium-231	pCi/g	0/ 15				0.08*	O
Radium-226	pCi/g	15/ 15	0.39	0.92	1.11	0.92	N
Radium-228	pCi/g	15/ 15	0.37	1.26	1.52	1.26	N
Thorium-228	pCi/g	15/ 15	0.60	1.64	1.75	1.64	N
Thorium-230	pCi/g	15/ 15	0.44	1.62	1.60	1.6	N
Thorium-232	pCi/g	15/ 15	0.47	1.24	1.46	1.24	N
Total Uranium	µg/g	15/ 15	1.22	3.94	4.07	3.94	N
Uranium-234	pCi/g	15/ 15	0.28	1.68	1.79	1.68	N
Uranium-235	pCi/g	1/ 15	0.08	0.08	0.10	0.08	D
Uranium-238	pCi/g	15/ 15	0.37	1.36	1.62	1.36	N
Semivolatile Organics							
1,2,4-Trichlorobenzene	µg/Kg	0/ 16					O
1,2-Dichlorobenzene	µg/Kg	0/ 16					O
1,3-Dichlorobenzene	µg/Kg	0/ 16					O
1,4-Dichlorobenzene	µg/Kg	0/ 16					O
2,4,5-Trichlorophenol	µg/Kg	0/ 16					O
2,4,6-Trichlorophenol	µg/Kg	0/ 16					O
2,4-Dichlorophenol	µg/Kg	0/ 16					O
2,4-Dimethylphenol	µg/Kg	0/ 16					O
2,4-Dinitrophenol	µg/Kg	0/ 16					O
2-Chloronaphthalene	µg/Kg	0/ 16					O
2-Chlorophenol	µg/Kg	0/ 16					O
2-Methyl-4,6-dinitrophenol	µg/Kg	0/ 16					O
2-Methylnaphthalene	µg/Kg	0/ 15					O
2-Nitroaniline	µg/Kg	0/ 16					O
2-Nitrophenol	µg/Kg	0/ 16					O
3,3'-Dichlorobenzidine	µg/Kg	0/ 16					O
3-Nitroaniline	µg/Kg	0/ 16					O
4-Bromophenylphenylether	µg/Kg	0/ 16					O
4-Chloro-3-methylphenol	µg/Kg	0/ 16					O
4-Chloroaniline	µg/Kg	0/ 16					O
4-Chlorophenylphenylether	µg/Kg	0/ 16					O
4-Nitroaniline	µg/Kg	0/ 16					O
4-Nitrophenol	µg/Kg	0/ 16					O
Benzoic acid	µg/Kg	0/ 15					O
bis(2-Chloroethoxy)methane	µg/Kg	0/ 16					O
bis(2-Chloroethyl)ether	µg/Kg	0/ 16					O
bis(2-Chloroisopropyl)ether	µg/Kg	0/ 16					O
bis(2-Ethylhexyl)phthalate	µg/Kg	3/ 16	320	5130	5130	5130	D
Butylbenzylphthalate	µg/Kg	0/ 16					O

Table 4-5
Background Surface Soil (0-0.5') Summary Statistics
Niagara Falls Storage Site Remedial Investigation [1]

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Semivolatile Organics (continued)							
Carbazole	µg/Kg	0/ 16					O
Dibenzofuran	µg/Kg	0/ 16					O
Diethylphthalate	µg/Kg	0/ 16					O
Dimethylphthalate	µg/Kg	0/ 16					O
Di-n-butylphthalate	µg/Kg	0/ 16					O
Di-n-octylphthalate	µg/Kg	0/ 16					O
Hexachlorobenzene	µg/Kg	0/ 16					O
Hexachlorobutadiene	µg/Kg	0/ 16					O
Hexachlorocyclopentadiene	µg/Kg	0/ 16					O
Hexachloroethane	µg/Kg	0/ 16					O
Isophorone	µg/Kg	0/ 16					O
m,p-Cresols	µg/Kg	0/ 16					O
N-Nitroso-di-n-propylamine	µg/Kg	0/ 16					O
N-Nitrosodiphenylamine	µg/Kg	0/ 16					O
o-Cresol	µg/Kg	0/ 16					O
Pentachlorophenol	µg/Kg	0/ 16					O
Phenol	µg/Kg	0/ 16					O
Volatile Organics							
1,1,1-Trichloroethane	µg/Kg	0/ 1					O
1,1,2,2-Tetrachloroethane	µg/Kg	0/ 1					O
1,1,2-Trichloroethane	µg/Kg	0/ 1					O
1,1-Dichloroethane	µg/Kg	0/ 1					O
1,1-Dichloroethene	µg/Kg	0/ 1					O
1,2-Dichloroethane	µg/Kg	0/ 1					O
1,2-Dichloroethene	µg/Kg	0/ 1					O
1,2-Dichloropropane	µg/Kg	0/ 1					O
2-Butanone	µg/Kg	0/ 1					O
2-Hexanone	µg/Kg	0/ 1					O
4-Methyl-2-pentanone	µg/Kg	0/ 1					O
Acetone	µg/Kg	0/ 1					O
Benzene	µg/Kg	0/ 1					O
Bromodichloromethane	µg/Kg	0/ 1					O
Bromoform	µg/Kg	0/ 1					O
Bromomethane	µg/Kg	0/ 1					O
Carbon disulfide	µg/Kg	0/ 1					O
Carbon tetrachloride	µg/Kg	0/ 1					O
Chlorobenzene	µg/Kg	0/ 1					O
Chloroethane	µg/Kg	0/ 1					O
Chloroform	µg/Kg	0/ 1					O
Chloromethane	µg/Kg	0/ 1					O
cis-1,3-Dichloropropene	µg/Kg	0/ 1					O
Dibromochloromethane	µg/Kg	0/ 1					O
Ethylbenzene	µg/Kg	0/ 1					O
Methylene chloride	µg/Kg	0/ 1					O
Styrene	µg/Kg	0/ 1					O
Tetrachloroethene	µg/Kg	0/ 1					O
Toluene	µg/Kg	0/ 1					O

Table 4-5
Background Surface Soil (0-0.5') Summary Statistics
Niagara Falls Storage Site Remedial Investigation [1]

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Volatile Organics (continued)							
trans-1,3-Dichloropropene	µg/Kg	0/ 1					O
Trichloroethene	µg/Kg	0/ 1					O
Vinyl chloride	µg/Kg	0/ 1					O
Xylenes (total)	µg/Kg	0/ 1					O

[1]Background values based on removal of the following data:
Removal of SS outliers; selenium from BKG-12 and arsenic and lead from BKG-17

Substitutions:
*0.08 Uranium-235 SB UTL substituted for Actinium-227 and Protactinium-231 in SS

Dist Codes:
L - Distribution most similar to lognormal
N - Distribution most similar to normal
G - Distribution most similar to gamma
O - No detects, no UTL calculated
X - Distribution significantly different from normal and lognormal
D - Distribution not determined because less than 50% detects or less than 8 detects
Z - Distribution with negative results and therefore treated as normal

Table 4-6
Exposure Unit 1
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	10	4700 *	17000 *	10
Antimony	mg/Kg	10	0.32 BN	0.778 BN	3
Arsenic	mg/Kg	10	3.4	8.81 N	10
Barium	mg/Kg	10	55.1	279 J	10
Beryllium	mg/Kg	10	0.26 BE	0.85 E	10
Boron	mg/Kg	10	0.91 B	10.9	10
Cadmium	mg/Kg	10	0.36 B	1.1	3
Calcium	mg/Kg	10	3730	44900 E*	10
Chromium	mg/Kg	10	6.4	25.4	10
Cobalt	mg/Kg	10	4.2	19.7	10
Copper	mg/Kg	10	16.6 N	41.7 E*	10
Iron	mg/Kg	10	10500	36200	10
Lead	mg/Kg	10	6.4	37.7 *E	10
Lithium	mg/Kg	10	17.7 N	32.9 E	10
Magnesium	mg/Kg	10	2550 E	12900 *	10
Manganese	mg/Kg	10	504 *E	3670	10
Mercury	mg/Kg	10	0.025	1.1	9
Nickel	mg/Kg	10	8.8 E	46	10
Potassium	mg/Kg	10	697 E	2710 E	10
Selenium	mg/Kg	10	0.27 BN	1.7 N	9
Silver	mg/Kg	10	0.05 BN	0.75 N	8
Sodium	mg/Kg	10	39.1	255 *	10
Thallium	mg/Kg	10	0.07 B	0.285 B	8
Vanadium	mg/Kg	10	10.2	36.7 *	10
Zinc	mg/Kg	10	26.2	84 N	10
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	8	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	8	--	--	0
2,4-Dinitrotoluene	μg/Kg	10	--	--	0
2,6-Dinitrotoluene	μg/Kg	10	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	8	--	--	0
2-Nitrotoluene	μg/Kg	8	--	--	0
3-Dinitrobenzene	μg/Kg	8	--	--	0
3-Nitrotoluene	μg/Kg	8	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	8	--	--	0
4-Nitrotoluene	μg/Kg	8	--	--	0
HMX	μg/Kg	8	--	--	0
Nitrobenzene	μg/Kg	10	--	--	0
RDX	μg/Kg	8	--	--	0
Tetryl	μg/Kg	8	--	--	0
PAHs					
Acenaphthene	μg/Kg	10	--	--	0
Acenaphthylene	μg/Kg	10	--	--	0

* Data qualifier included with concentration value

Table 4-6
Exposure Unit 1
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	10	--	--	0
Benzo(a)anthracene	µg/Kg	10	--	--	0
Benzo(a)pyrene	µg/Kg	10	--	--	0
Benzo(b)fluoranthene	µg/Kg	10	2.5	2.5	1
Benzo(g,h,i)perylene	µg/Kg	10	1.7	1.7	1
Benzo(k)fluoranthene	µg/Kg	10	--	--	0
Chrysene	µg/Kg	10	--	--	0
Dibenzo(a,h)anthracene	µg/Kg	10	--	--	0
Fluoranthene	µg/Kg	10	--	--	0
Fluorene	µg/Kg	10	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	10	--	--	0
Naphthalene	µg/Kg	10	292 J	292 J	1
Phenanthrene	µg/Kg	10	2.5	252 J	2
Pyrene	µg/Kg	10	1.6	1.6	1
PCBs					
Aroclor-1016	µg/Kg	9	--	--	0
Aroclor-1221	µg/Kg	9	--	--	0
Aroclor-1232	µg/Kg	9	--	--	0
Aroclor-1242	µg/Kg	9	--	--	0
Aroclor-1248	µg/Kg	9	--	--	0
Aroclor-1254	µg/Kg	9	--	--	0
Aroclor-1260	µg/Kg	9	8.9 J	8.9 J	1
Pesticides					
4,4'-DDD	µg/Kg	9	0.357 J	0.357 J	1
4,4'-DDE	µg/Kg	9	0.69 J	2.67	2
4,4'-DDT	µg/Kg	9	2.24	2.24	1
Aldrin	µg/Kg	9	--	--	0
alpha-BHC	µg/Kg	9	--	--	0
alpha-Chlordane	µg/Kg	9	--	--	0
beta-BHC	µg/Kg	9	--	--	0
delta-BHC	µg/Kg	9	--	--	0
Dieldrin	µg/Kg	9	--	--	0
Endosulfan I	µg/Kg	9	--	--	0
Endosulfan II	µg/Kg	9	--	--	0
Endosulfan sulfate	µg/Kg	9	--	--	0
Endrin	µg/Kg	9	--	--	0
Endrin aldehyde	µg/Kg	9	--	--	0
Endrin ketone	µg/Kg	9	--	--	0
gamma-BHC (Lindane)	µg/Kg	9	--	--	0
gamma-Chlordane	µg/Kg	9	--	--	0
Heptachlor	µg/Kg	9	--	--	0
Heptachlor epoxide	µg/Kg	9	--	--	0
Methoxychlor	µg/Kg	9	--	--	0
Toxaphene	µg/Kg	9	--	--	0

* Data qualifier included with concentration value

Table 4-6
Exposure Unit 1
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	25	1.51	8	3
Alpha	pCi/g	8	10.3	230	8
Americium-241	pCi/g	25	0.32	0.32	1
Beta	pCi/g	8	19.5	219	8
Cesium-137	pCi/g	28	0.0417 J	1.13	24
Cobalt-60	pCi/g	25	--	--	0
Plutonium-238	pCi/g	1	--	--	0
Plutonium-239/240	pCi/g	1	--	--	0
Potassium-40	pCi/g	8	9.15	20.2	8
Protactinium-231	pCi/g	25	9.43	9.43	1
Radium-226	pCi/g	31	0.708	184	23
Radium-228	pCi/g	25	0.638	2.43	25
Thorium-228	pCi/g	31	0.812	2.38	30
Thorium-230	pCi/g	31	0.876 J	230	22
Thorium-232	pCi/g	31	0.593	1.73	31
Total Uranium	μg/g	31	1.85	366	31
Uranium-234	pCi/g	31	0.532	119	31
Uranium-235	pCi/g	31	0.0701 J	6.15	13
Uranium-238	pCi/g	31	0.7	120	31
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	10	--	--	0
1,2-Dichlorobenzene	μg/Kg	10	--	--	0
1,3-Dichlorobenzene	μg/Kg	10	--	--	0
1,4-Dichlorobenzene	μg/Kg	10	--	--	0
2,4,5-Trichlorophenol	μg/Kg	10	--	--	0
2,4,6-Trichlorophenol	μg/Kg	10	--	--	0
2,4-Dichlorophenol	μg/Kg	10	--	--	0
2,4-Dimethylphenol	μg/Kg	10	--	--	0
2,4-Dinitrophenol	μg/Kg	10	--	--	0
2-Chloronaphthalene	μg/Kg	10	--	--	0
2-Chlorophenol	μg/Kg	10	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	10	--	--	0
2-Methylnaphthalene	μg/Kg	9	440	440	1
2-Nitroaniline	μg/Kg	10	--	--	0
2-Nitrophenol	μg/Kg	10	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	10	--	--	0
3-Nitroaniline	μg/Kg	10	--	--	0
4-Bromophenylphenylether	μg/Kg	10	--	--	0
4-Chloro-3-methylphenol	μg/Kg	10	--	--	0
4-Chloroaniline	μg/Kg	10	--	--	0
4-Chlorophenylphenylether	μg/Kg	10	--	--	0
4-Nitroaniline	μg/Kg	10	--	--	0
4-Nitrophenol	μg/Kg	10	--	--	0

* Data qualifier included with concentration value

Table 4-6
Exposure Unit 1
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Benzoic Acid	µg/Kg	9	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	10	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	10	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	10	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	10	241 J	332 J	2
Butylbenzylphthalate	µg/Kg	10	--	--	0
Carbazole	µg/Kg	10	--	--	0
Dibenzofuran	µg/Kg	10	--	--	0
Diethylphthalate	µg/Kg	10	--	--	0
Dimethylphthalate	µg/Kg	10	--	--	0
Di-n-butylphthalate	µg/Kg	10	--	--	0
Di-n-octylphthalate	µg/Kg	10	150 J	150 J	1
Diphenylamine	µg/Kg	8	--	--	0
Hexachlorobenzene	µg/Kg	10	--	--	0
Hexachlorobutadiene	µg/Kg	10	--	--	0
Hexachlorocyclopentadiene	µg/Kg	10	--	--	0
Hexachloroethane	µg/Kg	10	--	--	0
Isophorone	µg/Kg	10	--	--	0
m,p-Cresols	µg/Kg	9	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	10	--	--	0
N-Nitrosodiphenylamine	µg/Kg	2	--	--	0
o-Cresol	µg/Kg	10	--	--	0
p-Cresol	µg/Kg	1	--	--	0
Pentachlorophenol	µg/Kg	10	--	--	0
Phenol	µg/Kg	10	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	9	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	9	--	--	0
1,1,2-Trichloroethane	µg/Kg	9	--	--	0
1,1-Dichloroethane	µg/Kg	9	--	--	0
1,1-Dichloroethene	µg/Kg	9	1.5	1.5	1
1,2-Dichloroethane	µg/Kg	9	--	--	0
1,2-Dichloroethene	µg/Kg	1	--	--	0
1,2-Dichloropropane	µg/Kg	9	--	--	0
2-Butanone	µg/Kg	9	5.1	6.5	3
2-Hexanone	µg/Kg	9	--	--	0
4-Methyl-2-pentanone	µg/Kg	9	--	--	0
Acetone	µg/Kg	9	8 J	65.6	4
Benzene	µg/Kg	9	0.54 J	0.54 J	1
Bromodichloromethane	µg/Kg	9	--	--	0
Bromoform	µg/Kg	9	--	--	0
Bromomethane	µg/Kg	9	--	--	0
Carbon disulfide	µg/Kg	9	1.2 J	1.8 J	2
Carbon tetrachloride	µg/Kg	9	--	--	0

* Data qualifier included with concentration value

Table 4-6
Exposure Unit 1
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chlorobenzene	μg/Kg	9	--	--	0
Chloroethane	μg/Kg	9	--	--	0
Chloroform	μg/Kg	9	--	--	0
Chloromethane	μg/Kg	9	--	--	0
cis-1,3-Dichloropropene	μg/Kg	9	--	--	0
Dibromochloromethane	μg/Kg	9	--	--	0
Ethylbenzene	μg/Kg	9	0.58 J	0.58 J	1
Methylene chloride	μg/Kg	9	--	--	0
Styrene	μg/Kg	9	--	--	0
Tetrachloroethene	μg/Kg	9	--	--	0
Toluene	μg/Kg	9	0.74	1.5	2
trans-1,3-Dichloropropene	μg/Kg	9	--	--	0
Trichloroethene	μg/Kg	9	--	--	0
Vinyl chloride	μg/Kg	9	--	--	0
Xylenes (total)	μg/Kg	9	0.39 J	1.3 J	2

* Data qualifier included with concentration value

Table 4-7
Exposure Unit 2
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	17	8360	40100	17
Antimony	mg/Kg	17	0.31 BN	1.83 N	6
Arsenic	mg/Kg	17	1.2	5.21 N	17
Barium	mg/Kg	17	89.6	481	17
Beryllium	mg/Kg	17	0.42 B	5.2	17
Boron	mg/Kg	17	1.5 B	147	17
Cadmium	mg/Kg	17	0.094 B	0.964	4
Calcium	mg/Kg	17	2170	238000 *	17
Chromium	mg/Kg	17	2.9	67	17
Cobalt	mg/Kg	17	0.24 BE	12.2 *	17
Copper	mg/Kg	17	3.1	57.6	17
Iron	mg/Kg	17	2260	39500	17
Lead	mg/Kg	17	3.5	588	17
Lithium	mg/Kg	17	15.7 E	103	17
Magnesium	mg/Kg	17	2080	44400	17
Manganese	mg/Kg	17	259	4070	17
Mercury	mg/Kg	17	0.01 B	1.5 N	17
Nickel	mg/Kg	17	0.65	46.8 *E	17
Potassium	mg/Kg	17	504 N	9150 N	17
Selenium	mg/Kg	17	0.19 BN	5.8 B	16
Silver	mg/Kg	17	0.05 BN	0.34	16
Sodium	mg/Kg	17	38.3	2410 *	17
Thallium	mg/Kg	17	0.06 B	0.249 E	16
Vanadium	mg/Kg	17	5	52	17
Zinc	mg/Kg	17	6.7 E	475	17
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	4	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	4	--	--	0
2,4-Dinitrotoluene	μg/Kg	21	--	--	0
2,6-Dinitrotoluene	μg/Kg	21	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	4	--	--	0
2-Nitrotoluene	μg/Kg	4	--	--	0
3-Dinitrobenzene	μg/Kg	4	--	--	0
3-Nitrotoluene	μg/Kg	4	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	4	--	--	0
4-Nitrotoluene	μg/Kg	4	--	--	0
HMX	μg/Kg	4	--	--	0
Nitrobenzene	μg/Kg	21	--	--	0
RDX	μg/Kg	4	--	--	0
Tetryl	μg/Kg	4	--	--	0
PAHs					
Acenaphthene	μg/Kg	20	206 J	6270 JD	3
Acenaphthylene	μg/Kg	20	38.2	38.2	1

* Data qualifier included with concentration value

Table 4-7
Exposure Unit 2
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	20	240 J	6660	3
Benzo(a)anthracene	µg/Kg	20	32.9	26900 D	7
Benzo(a)pyrene	µg/Kg	20	21.9 J	36000 D	7
Benzo(b)fluoranthene	µg/Kg	20	26.5	35000 D	8
Benzo(g,h,i)perylene	µg/Kg	20	101	19400 E	5
Benzo(k)fluoranthene	µg/Kg	20	18.9 J	25900 D	7
Chrysene	µg/Kg	20	27.8	26300 D	7
Dibenzo(a,h)anthracene	µg/Kg	20	4010 JD	7850 D	2
Fluoranthene	µg/Kg	20	23.4 J	55800 D	7
Fluorene	µg/Kg	20	103 J	2570	2
Indeno(1,2,3-cd)pyrene	µg/Kg	20	135 J	17500	6
Naphthalene	µg/Kg	20	51.7 J	893 J	2
Phenanthrene	µg/Kg	20	38.6	56300 D	6
Pyrene	µg/Kg	20	64.1	62900 D	7
PCBs					
Aroclor-1016	µg/Kg	6	--	--	0
Aroclor-1221	µg/Kg	6	--	--	0
Aroclor-1232	µg/Kg	6	--	--	0
Aroclor-1242	µg/Kg	6	--	--	0
Aroclor-1248	µg/Kg	6	--	--	0
Aroclor-1254	µg/Kg	6	--	--	0
Aroclor-1260	µg/Kg	6	3.4 J	69.6	5
Pesticides					
4,4'-DDD	µg/Kg	6	0.289 J	2.01	2
4,4'-DDE	µg/Kg	6	2.58	3.78	3
4,4'-DDT	µg/Kg	6	2.06	4.45	2
Aldrin	µg/Kg	6	--	--	0
alpha-BHC	µg/Kg	6	--	--	0
alpha-Chlordane	µg/Kg	6	--	--	0
beta-BHC	µg/Kg	6	--	--	0
delta-BHC	µg/Kg	6	--	--	0
Dieldrin	µg/Kg	6	0.742 J	0.742 J	1
Endosulfan I	µg/Kg	6	--	--	0
Endosulfan II	µg/Kg	6	--	--	0
Endosulfan sulfate	µg/Kg	6	--	--	0
Endrin	µg/Kg	6	--	--	0
Endrin aldehyde	µg/Kg	6	--	--	0
Endrin ketone	µg/Kg	6	--	--	0
gamma-BHC (Lindane)	µg/Kg	6	--	--	0
gamma-Chlordane	µg/Kg	6	--	--	0
Heptachlor	µg/Kg	6	--	--	0
Heptachlor epoxide	µg/Kg	6	--	--	0
Methoxychlor	µg/Kg	6	--	--	0
Toxaphene	µg/Kg	6	--	--	0

* Data qualifier included with concentration value

Table 4-7
Exposure Unit 2
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	37	0.607	3.77	4
Alpha	pCi/g	12	9.83	92.4	12
Americium-241	pCi/g	37	0.0681	0.0681	1
Beta	pCi/g	12	17.2	35	12
Cesium-137	pCi/g	38	0.0213	0.817	37
Cobalt-60	pCi/g	37	--	--	0
Plutonium-238	pCi/g	1	--	--	0
Plutonium-239/240	pCi/g	1	--	--	0
Potassium-40	pCi/g	15	5.63	24.3	15
Protactinium-231	pCi/g	37	--	--	0
Radium-226	pCi/g	46	0.711	61.5	46
Radium-228	pCi/g	37	0.514	3.18	37
Thorium-228	pCi/g	46	0.558	1.56	46
Thorium-230	pCi/g	46	0.802	40.8	45
Thorium-232	pCi/g	46	0.534 J	1.33	46
Total Uranium	μg/g	46	1.41	33.1	43
Uranium-234	pCi/g	46	0.488	10.1	46
Uranium-235	pCi/g	46	0.0589 J	0.302 J	6
Uranium-238	pCi/g	46	0.451	10.1	45
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	20	--	--	0
1,2-Dichlorobenzene	μg/Kg	20	--	--	0
1,3-Dichlorobenzene	μg/Kg	20	--	--	0
1,4-Dichlorobenzene	μg/Kg	20	--	--	0
2,4,5-Trichlorophenol	μg/Kg	20	--	--	0
2,4,6-Trichlorophenol	μg/Kg	20	--	--	0
2,4-Dichlorophenol	μg/Kg	20	--	--	0
2,4-Dimethylphenol	μg/Kg	20	--	--	0
2,4-Dinitrophenol	μg/Kg	20	--	--	0
2-Chloronaphthalene	μg/Kg	20	--	--	0
2-Chlorophenol	μg/Kg	20	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	20	--	--	0
2-Methylnaphthalene	μg/Kg	20	--	--	0
2-Nitroaniline	μg/Kg	20	--	--	0
2-Nitrophenol	μg/Kg	20	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	20	--	--	0
3-Nitroaniline	μg/Kg	20	--	--	0
4-Bromophenylphenylether	μg/Kg	20	--	--	0
4-Chloro-3-methylphenol	μg/Kg	20	--	--	0
4-Chloroaniline	μg/Kg	20	--	--	0
4-Chlorophenylphenylether	μg/Kg	20	--	--	0
4-Nitroaniline	μg/Kg	20	--	--	0
4-Nitrophenol	μg/Kg	20	--	--	0

* Data qualifier included with concentration value

Table 4-7
Exposure Unit 2
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Benzoic Acid	µg/Kg	20	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	20	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	20	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	20	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	20	114 J	7900	5
Butylbenzylphthalate	µg/Kg	20	--	--	0
Carbazole	µg/Kg	20	210 J	6660 JD	2
Dibenzofuran	µg/Kg	20	--	--	0
Diethylphthalate	µg/Kg	20	--	--	0
Dimethylphthalate	µg/Kg	20	--	--	0
Di-n-butylphthalate	µg/Kg	20	--	--	0
Di-n-octylphthalate	µg/Kg	20	--	--	0
Diphenylamine	µg/Kg	17	--	--	0
Hexachlorobenzene	µg/Kg	20	--	--	0
Hexachlorobutadiene	µg/Kg	20	--	--	0
Hexachlorocyclopentadiene	µg/Kg	20	--	--	0
Hexachloroethane	µg/Kg	20	--	--	0
Isophorone	µg/Kg	20	--	--	0
m,p-Cresols	µg/Kg	20	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	20	--	--	0
N-Nitrosodiphenylamine	µg/Kg	3	--	--	0
o-Cresol	µg/Kg	20	--	--	0
Pentachlorophenol	µg/Kg	20	--	--	0
Phenol	µg/Kg	20	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	10	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	10	--	--	0
1,1,2-Trichloroethane	µg/Kg	10	--	--	0
1,1-Dichloroethane	µg/Kg	10	--	--	0
1,1-Dichloroethene	µg/Kg	10	--	--	0
1,2-Dichloroethane	µg/Kg	10	--	--	0
1,2-Dichloropropane	µg/Kg	10	--	--	0
2-Butanone	µg/Kg	10	6.7	9	2
2-Hexanone	µg/Kg	10	4.4	4.4	1
4-Methyl-2-pentanone	µg/Kg	10	--	--	0
Acetone	µg/Kg	10	8.6	71.3	5
Benzene	µg/Kg	10	1.5	2.6	4
Bromodichloromethane	µg/Kg	10	--	--	0
Bromoform	µg/Kg	10	--	--	0
Bromomethane	µg/Kg	10	--	--	0
Carbon disulfide	µg/Kg	10	1.4 J	9.1	3
Carbon tetrachloride	µg/Kg	10	--	--	0
Chlorobenzene	µg/Kg	10	--	--	0
Chloroethane	µg/Kg	10	--	--	0

* Data qualifier included with concentration value

Table 4-7
Exposure Unit 2
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chloroform	μg/Kg	10	--	--	0
Chloromethane	μg/Kg	10	--	--	0
cis-1,3-Dichloropropene	μg/Kg	10	--	--	0
Dibromochloromethane	μg/Kg	10	--	--	0
Ethylbenzene	μg/Kg	10	--	--	0
Methylene chloride	μg/Kg	10	--	--	0
Styrene	μg/Kg	10	--	--	0
Tetrachloroethene	μg/Kg	10	--	--	0
Toluene	μg/Kg	10	0.37 J	3.9	5
trans-1,3-Dichloropropene	μg/Kg	10	--	--	0
Trichloroethene	μg/Kg	10	--	--	0
Vinyl chloride	μg/Kg	10	--	--	0
Xylenes (total)	μg/Kg	10	0.99 J	1.8 J	2

* Data qualifier included with concentration value

Table 4-8
Exposure Unit 3
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	8	9960	15600 *	8
Antimony	mg/Kg	8	0.33 BN	0.834 BN	4
Arsenic	mg/Kg	8	2.9 E	11 *	8
Barium	mg/Kg	8	89.2 N	136	8
Beryllium	mg/Kg	8	0.44 B	0.792	8
Boron	mg/Kg	8	3.7 B	9.85	8
Cadmium	mg/Kg	8	0.07 B	0.25 B	3
Calcium	mg/Kg	8	3580	44300	8
Chromium	mg/Kg	8	11.4 *	36.8 E	8
Cobalt	mg/Kg	8	3.8	10.5 *	8
Copper	mg/Kg	8	19.5	40.5 N	8
Iron	mg/Kg	8	11700	24900 *	8
Lead	mg/Kg	8	6.81 *	70.2	8
Lithium	mg/Kg	8	15.4 EN	23.6	8
Magnesium	mg/Kg	8	2400	10500	8
Manganese	mg/Kg	8	141	957 *	8
Mercury	mg/Kg	8	0.023	0.07	7
Nickel	mg/Kg	8	10.8	24.6	8
Potassium	mg/Kg	8	498	2490 N	8
Selenium	mg/Kg	8	0.354 B	1.3	8
Silver	mg/Kg	8	0.063 B	0.291	8
Sodium	mg/Kg	8	67.8 E	163 *	8
Thallium	mg/Kg	8	0.099 BE	0.13	8
Vanadium	mg/Kg	8	17.2	29.8	8
Zinc	mg/Kg	8	47.6 *	63.9 *N	8
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/Kg	2	--	--	0
2,4,6-Trinitrotoluene	µg/Kg	2	--	--	0
2,4-Dinitrotoluene	µg/Kg	10	--	--	0
2,6-Dinitrotoluene	µg/Kg	10	--	--	0
2-Amino-4,6-dinitrotoluene	µg/Kg	2	--	--	0
2-Nitrotoluene	µg/Kg	2	--	--	0
3-Dinitrobenzene	µg/Kg	2	--	--	0
3-Nitrotoluene	µg/Kg	2	--	--	0
4-Amino-2,6-dinitrotoluene	µg/Kg	2	--	--	0
4-Nitrotoluene	µg/Kg	2	--	--	0
HMX	µg/Kg	2	--	--	0
Nitrobenzene	µg/Kg	10	--	--	0
RDX	µg/Kg	2	--	--	0
Tetryl	µg/Kg	2	--	--	0
PAHs					
Acenaphthene	µg/Kg	10	--	--	0
Acenaphthylene	µg/Kg	10	--	--	0

* Data qualifier included with concentration value

Table 4-8
Exposure Unit 3
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	10	--	--	0
Benzo(a)anthracene	µg/Kg	10	91.3 J	91.3 J	1
Benzo(a)pyrene	µg/Kg	10	200 J	200 J	1
Benzo(b)fluoranthene	µg/Kg	10	21.9 P	297 J	3
Benzo(g,h,i)perylene	µg/Kg	10	216 J	216 J	1
Benzo(k)fluoranthene	µg/Kg	10	196 J	196 J	1
Chrysene	µg/Kg	10	305 J	305 J	1
Dibenzo(a,h)anthracene	µg/Kg	10	--	--	0
Fluoranthene	µg/Kg	10	26.2 J	253 J	3
Fluorene	µg/Kg	10	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	10	154 J	154 J	1
Naphthalene	µg/Kg	10	--	--	0
Phenanthrene	µg/Kg	10	31.6 J	31.6 J	1
Pyrene	µg/Kg	10	30.8 J	255 J	3
PCBs					
Aroclor-1016	µg/Kg	2	--	--	0
Aroclor-1221	µg/Kg	2	--	--	0
Aroclor-1232	µg/Kg	2	--	--	0
Aroclor-1242	µg/Kg	2	--	--	0
Aroclor-1248	µg/Kg	2	--	--	0
Aroclor-1254	µg/Kg	2	--	--	0
Aroclor-1260	µg/Kg	2	16	16	1
Pesticides					
4,4'-DDD	µg/Kg	2	--	--	0
4,4'-DDE	µg/Kg	2	2.94	2.94	1
4,4'-DDT	µg/Kg	2	2.58	2.58	1
Aldrin	µg/Kg	2	--	--	0
alpha-BHC	µg/Kg	2	--	--	0
alpha-Chlordane	µg/Kg	2	--	--	0
beta-BHC	µg/Kg	2	--	--	0
delta-BHC	µg/Kg	2	--	--	0
Dieldrin	µg/Kg	2	--	--	0
Endosulfan I	µg/Kg	2	--	--	0
Endosulfan II	µg/Kg	2	--	--	0
Endosulfan sulfate	µg/Kg	2	--	--	0
Endrin	µg/Kg	2	--	--	0
Endrin aldehyde	µg/Kg	2	--	--	0
Endrin ketone	µg/Kg	2	--	--	0
gamma-BHC (Lindane)	µg/Kg	2	--	--	0
gamma-Chlordane	µg/Kg	2	--	--	0
Heptachlor	µg/Kg	2	--	--	0
Heptachlor epoxide	µg/Kg	2	--	--	0
Methoxychlor	µg/Kg	2	--	--	0
Toxaphene	µg/Kg	2	--	--	0

* Data qualifier included with concentration value

Table 4-8
Exposure Unit 3
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	18	0.938	2.26	2
Alpha	pCi/g	5	8.39	15.7	5
Americium-241	pCi/g	18	--	--	0
Beta	pCi/g	5	15.9	26.5	5
Cesium-137	pCi/g	19	0.0317	0.375	16
Cobalt-60	pCi/g	18	--	--	0
Potassium-40	pCi/g	13	5.72	19.1	13
Protactinium-231	pCi/g	18	--	--	0
Radium-226	pCi/g	21	0.802	37.5	21
Radium-228	pCi/g	18	0.427	1.07	18
Thorium-228	pCi/g	21	0.736	1.44	21
Thorium-230	pCi/g	21	0.794	12.1	21
Thorium-232	pCi/g	21	0.61	1.33	21
Total Uranium	μg/g	21	1.61	34.3	21
Uranium-234	pCi/g	21	0.648	11.5	21
Uranium-235	pCi/g	21	0.0552 J	0.309	8
Uranium-238	pCi/g	21	0.547	11	20
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	10	--	--	0
1,2-Dichlorobenzene	μg/Kg	10	--	--	0
1,3-Dichlorobenzene	μg/Kg	10	--	--	0
1,4-Dichlorobenzene	μg/Kg	10	--	--	0
2,4,5-Trichlorophenol	μg/Kg	10	--	--	0
2,4,6-Trichlorophenol	μg/Kg	10	--	--	0
2,4-Dichlorophenol	μg/Kg	10	--	--	0
2,4-Dimethylphenol	μg/Kg	10	--	--	0
2,4-Dinitrophenol	μg/Kg	10	--	--	0
2-Chloronaphthalene	μg/Kg	10	--	--	0
2-Chlorophenol	μg/Kg	10	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	10	--	--	0
2-Methylnaphthalene	μg/Kg	10	--	--	0
2-Nitroaniline	μg/Kg	9	--	--	0
2-Nitrophenol	μg/Kg	10	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	10	--	--	0
3-Nitroaniline	μg/Kg	10	--	--	0
4-Bromophenylphenylether	μg/Kg	10	--	--	0
4-Chloro-3-methylphenol	μg/Kg	10	--	--	0
4-Chloroaniline	μg/Kg	10	--	--	0
4-Chlorophenylphenylether	μg/Kg	10	--	--	0
4-Nitroaniline	μg/Kg	10	--	--	0
4-Nitrophenol	μg/Kg	10	--	--	0
Benzoic Acid	μg/Kg	10	--	--	0
bis(2-Chloroethoxy)methane	μg/Kg	10	--	--	0

* Data qualifier included with concentration value

Table 4-8
Exposure Unit 3
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethyl)ether	µg/Kg	10	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	10	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	10	55.8 J	1170 J	5
Butylbenzylphthalate	µg/Kg	10	--	--	0
Carbazole	µg/Kg	10	--	--	0
Dibenzofuran	µg/Kg	10	--	--	0
Diethylphthalate	µg/Kg	10	--	--	0
Dimethylphthalate	µg/Kg	10	--	--	0
Di-n-butylphthalate	µg/Kg	10	--	--	0
Di-n-octylphthalate	µg/Kg	10	--	--	0
Diphenylamine	µg/Kg	6	--	--	0
Hexachlorobenzene	µg/Kg	10	--	--	0
Hexachlorobutadiene	µg/Kg	10	--	--	0
Hexachlorocyclopentadiene	µg/Kg	10	--	--	0
Hexachloroethane	µg/Kg	10	--	--	0
Isophorone	µg/Kg	10	--	--	0
m,p-Cresols	µg/Kg	10	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	10	--	--	0
N-Nitrosodiphenylamine	µg/Kg	4	--	--	0
o-Cresol	µg/Kg	10	--	--	0
Pentachlorophenol	µg/Kg	10	--	--	0
Phenol	µg/Kg	10	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	2	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	2	--	--	0
1,1,2-Trichloroethane	µg/Kg	2	--	--	0
1,1-Dichloroethane	µg/Kg	2	--	--	0
1,1-Dichloroethene	µg/Kg	2	--	--	0
1,2-Dichloroethane	µg/Kg	2	--	--	0
1,2-Dichloropropane	µg/Kg	2	--	--	0
2-Butanone	µg/Kg	2	--	--	0
2-Hexanone	µg/Kg	2	--	--	0
4-Methyl-2-pentanone	µg/Kg	2	--	--	0
Acetone	µg/Kg	2	--	--	0
Benzene	µg/Kg	2	--	--	0
Bromodichloromethane	µg/Kg	2	--	--	0
Bromoform	µg/Kg	2	--	--	0
Bromomethane	µg/Kg	2	--	--	0
Carbon disulfide	µg/Kg	2	--	--	0
Carbon tetrachloride	µg/Kg	2	--	--	0
Chlorobenzene	µg/Kg	2	--	--	0
Chloroethane	µg/Kg	2	--	--	0
Chloroform	µg/Kg	2	--	--	0
Chloromethane	µg/Kg	2	--	--	0

* Data qualifier included with concentration value

Table 4-8
Exposure Unit 3
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
cis-1,3-Dichloropropene	μg/Kg	2	--	--	0
Dibromochloromethane	μg/Kg	2	--	--	0
Ethylbenzene	μg/Kg	2	--	--	0
Methylene chloride	μg/Kg	2	--	--	0
Styrene	μg/Kg	2	--	--	0
Tetrachloroethene	μg/Kg	2	--	--	0
Toluene	μg/Kg	2	--	--	0
trans-1,3-Dichloropropene	μg/Kg	2	--	--	0
Trichloroethene	μg/Kg	2	--	--	0
Vinyl chloride	μg/Kg	2	--	--	0
Xylenes (total)	μg/Kg	2	--	--	0

* Data qualifier included with concentration value

Table 4-9
Exposure Unit 4
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	22	7170	21800	22
Antimony	mg/Kg	22	1.54 N	3.57 N	3
Arsenic	mg/Kg	22	2.5 *N	17.2 N	22
Barium	mg/Kg	22	68	2670 N*	22
Beryllium	mg/Kg	22	0.354 B	0.85	22
Boron	mg/Kg	22	5.13 B	313 J	22
Cadmium	mg/Kg	22	0.04 B	0.67	13
Calcium	mg/Kg	22	4750	93600 E	22
Chromium	mg/Kg	22	11.4	196	22
Cobalt	mg/Kg	22	5.62 *	11.4 *	22
Copper	mg/Kg	22	24 *	590 J	22
Iron	mg/Kg	22	13700	154000 J	22
Lead	mg/Kg	22	6.1 *	686	22
Lithium	mg/Kg	22	7.79 N*	29.9	22
Magnesium	mg/Kg	22	3130	17900	22
Manganese	mg/Kg	22	374	1500	22
Mercury	mg/Kg	22	0.01 B	0.11	22
Nickel	mg/Kg	22	16.4	76.1 *	22
Potassium	mg/Kg	22	1110	6330 J	22
Selenium	mg/Kg	22	0.31 B	1.99 N	22
Silver	mg/Kg	22	0.06 B	0.375 B	22
Sodium	mg/Kg	22	50.2	4520 *	22
Thallium	mg/Kg	22	0.08 B	0.242	21
Vanadium	mg/Kg	22	15.4	41.2	22
Zinc	mg/Kg	22	43.5	213	22
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	8	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	8	--	--	0
2,4-Dinitrotoluene	μg/Kg	27	64.1 J	64.1 J	1
2,6-Dinitrotoluene	μg/Kg	27	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	8	--	--	0
2-Nitrotoluene	μg/Kg	8	--	--	0
3-Dinitrobenzene	μg/Kg	8	--	--	0
3-Nitrotoluene	μg/Kg	8	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	8	--	--	0
4-Nitrotoluene	μg/Kg	8	--	--	0
HMX	μg/Kg	8	--	--	0
Nitrobenzene	μg/Kg	27	--	--	0
RDX	μg/Kg	8	--	--	0
Tetryl	μg/Kg	8	--	--	0
PAHs					
Acenaphthene	μg/Kg	26	--	--	0
Acenaphthylene	μg/Kg	26	14.9 J	151 J	3

* Data qualifier included with concentration value

Table 4-9
Exposure Unit 4
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	26	78.5	78.5	1
Benzo(a)anthracene	µg/Kg	26	1.62 J	623	10
Benzo(a)pyrene	µg/Kg	26	23.2 J	1290	7
Benzo(b)fluoranthene	µg/Kg	26	3.32 J	2980	10
Benzo(g,h,i)perylene	µg/Kg	26	49.3 J	2880 J	6
Benzo(k)fluoranthene	µg/Kg	26	16.1	908	6
Chrysene	µg/Kg	26	2.38 J	1090	11
Dibenzo(a,h)anthracene	µg/Kg	26	--	--	0
Fluoranthene	µg/Kg	26	6.34 P	694	11
Fluorene	µg/Kg	26	11.6 J	19.8 J	2
Indeno(1,2,3-cd)pyrene	µg/Kg	26	38.3	875	7
Naphthalene	µg/Kg	26	7 J	76.7	2
Phenanthrene	µg/Kg	26	20.9 J	532	8
Pyrene	µg/Kg	26	3.33 J	795	10
PCBs					
Aroclor-1016	µg/Kg	25	--	--	0
Aroclor-1221	µg/Kg	25	--	--	0
Aroclor-1232	µg/Kg	25	--	--	0
Aroclor-1242	µg/Kg	25	--	--	0
Aroclor-1248	µg/Kg	25	--	--	0
Aroclor-1254	µg/Kg	25	20.9	714 JP	7
Aroclor-1260	µg/Kg	25	4 J	70200	24
Pesticides					
4,4'-DDD	µg/Kg	25	--	--	0
4,4'-DDE	µg/Kg	25	1.1 JP	10.6	9
4,4'-DDT	µg/Kg	25	7.3 P	13.1	2
Aldrin	µg/Kg	25	--	--	0
alpha-BHC	µg/Kg	25	--	--	0
alpha-Chlordane	µg/Kg	25	--	--	0
beta-BHC	µg/Kg	25	--	--	0
delta-BHC	µg/Kg	25	--	--	0
Dieldrin	µg/Kg	25	0.92 JP	0.92 JP	1
Endosulfan I	µg/Kg	25	--	--	0
Endosulfan II	µg/Kg	25	--	--	0
Endosulfan sulfate	µg/Kg	25	0.99 J	0.99 J	1
Endrin	µg/Kg	25	--	--	0
Endrin aldehyde	µg/Kg	25	--	--	0
Endrin ketone	µg/Kg	25	--	--	0
gamma-BHC (Lindane)	µg/Kg	25	--	--	0
gamma-Chlordane	µg/Kg	25	--	--	0
Heptachlor	µg/Kg	25	--	--	0
Heptachlor epoxide	µg/Kg	25	--	--	0
Methoxychlor	µg/Kg	25	--	--	0
Toxaphene	µg/Kg	25	--	--	0

* Data qualifier included with concentration value

Table 4-9
Exposure Unit 4
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	40	--	--	0
Alpha	pCi/g	19	8.79	26.1	19
Americium-241	pCi/g	40	0.035	0.104	2
Beta	pCi/g	19	16.8	35.4	19
Cesium-137	pCi/g	47	0.0331	1.92 J	43
Cobalt-60	pCi/g	40	--	--	0
Plutonium-238	pCi/g	5	--	--	0
Plutonium-239/240	pCi/g	5	--	--	0
Potassium-40	pCi/g	13	2.34	19.5	13
Protactinium-231	pCi/g	40	--	--	0
Radium-226	pCi/g	50	0.555	5.83	48
Radium-228	pCi/g	40	0.292	1.1	38
Thorium-228	pCi/g	50	0.33	1.96	45
Thorium-230	pCi/g	50	0.732	5.21	49
Thorium-232	pCi/g	50	0.102	1.33	49
Total Uranium	μg/g	50	0.411	7.43	50
Uranium-234	pCi/g	50	0.275	2.92	48
Uranium-235	pCi/g	50	0.0726 J	0.221	2
Uranium-238	pCi/g	50	0.424	2.47	48
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	26	--	--	0
1,2-Dichlorobenzene	μg/Kg	26	--	--	0
1,3-Dichlorobenzene	μg/Kg	26	--	--	0
1,4-Dichlorobenzene	μg/Kg	26	--	--	0
2,4,5-Trichlorophenol	μg/Kg	26	--	--	0
2,4,6-Trichlorophenol	μg/Kg	25	--	--	0
2,4-Dichlorophenol	μg/Kg	26	--	--	0
2,4-Dimethylphenol	μg/Kg	26	--	--	0
2,4-Dinitrophenol	μg/Kg	26	--	--	0
2-Chloronaphthalene	μg/Kg	26	--	--	0
2-Chlorophenol	μg/Kg	26	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	26	--	--	0
2-Methylnaphthalene	μg/Kg	26	66.7	66.7	1
2-Nitroaniline	μg/Kg	25	--	--	0
2-Nitrophenol	μg/Kg	26	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	26	--	--	0
3-Nitroaniline	μg/Kg	26	--	--	0
4-Bromophenylphenylether	μg/Kg	26	--	--	0
4-Chloro-3-methylphenol	μg/Kg	26	--	--	0
4-Chloroaniline	μg/Kg	26	--	--	0
4-Chlorophenylphenylether	μg/Kg	26	--	--	0
4-Nitroaniline	μg/Kg	26	--	--	0
4-Nitrophenol	μg/Kg	26	--	--	0

* Data qualifier included with concentration value

Table 4-9
Exposure Unit 4
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Benzoic Acid	µg/Kg	26	69 J	498 J	2
bis(2-Chloroethoxy)methane	µg/Kg	26	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	26	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	26	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	26	85.5 J	85.5 J	1
Butylbenzylphthalate	µg/Kg	26	62.7 J	62.7 J	1
Carbazole	µg/Kg	26	--	--	0
Dibenzofuran	µg/Kg	26	20.8 J	20.8 J	1
Diethylphthalate	µg/Kg	26	--	--	0
Dimethylphthalate	µg/Kg	26	--	--	0
Di-n-butylphthalate	µg/Kg	26	291 J	291 J	1
Di-n-octylphthalate	µg/Kg	26	--	--	0
Diphenylamine	µg/Kg	18	--	--	0
Hexachlorobenzene	µg/Kg	26	--	--	0
Hexachlorobutadiene	µg/Kg	26	--	--	0
Hexachlorocyclopentadiene	µg/Kg	26	--	--	0
Hexachloroethane	µg/Kg	26	--	--	0
Isophorone	µg/Kg	26	--	--	0
m,p-Cresols	µg/Kg	26	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	26	--	--	0
N-Nitrosodiphenylamine	µg/Kg	8	--	--	0
o-Cresol	µg/Kg	26	--	--	0
Pentachlorophenol	µg/Kg	26	--	--	0
Phenol	µg/Kg	26	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	14	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	14	--	--	0
1,1,2-Trichloroethane	µg/Kg	14	--	--	0
1,1-Dichloroethane	µg/Kg	14	--	--	0
1,1-Dichloroethene	µg/Kg	14	1.12 J	1.12 J	1
1,2-Dichloroethane	µg/Kg	14	--	--	0
1,2-Dichloropropane	µg/Kg	14	--	--	0
2-Butanone	µg/Kg	14	--	--	0
2-Hexanone	µg/Kg	14	--	--	0
4-Methyl-2-pentanone	µg/Kg	14	--	--	0
Acetone	µg/Kg	14	2.46 J	6.92	4
Benzene	µg/Kg	14	--	--	0
Bromodichloromethane	µg/Kg	14	--	--	0
Bromoform	µg/Kg	14	--	--	0
Bromomethane	µg/Kg	14	--	--	0
Carbon disulfide	µg/Kg	14	--	--	0
Carbon tetrachloride	µg/Kg	14	--	--	0
Chlorobenzene	µg/Kg	14	--	--	0
Chloroethane	µg/Kg	14	--	--	0

* Data qualifier included with concentration value

Table 4-9
Exposure Unit 4
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chloroform	µg/Kg	14	--	--	0
Chloromethane	µg/Kg	14	--	--	0
cis-1,3-Dichloropropene	µg/Kg	14	--	--	0
Dibromochloromethane	µg/Kg	14	--	--	0
Ethylbenzene	µg/Kg	14	--	--	0
m,p-Xylenes	µg/Kg	1	--	--	0
Methylene chloride	µg/Kg	14	--	--	0
o-Xylene	µg/Kg	1	--	--	0
Styrene	µg/Kg	14	--	--	0
Tetrachloroethene	µg/Kg	14	3.92	1410	5
Toluene	µg/Kg	14	0.46 J	0.46 J	1
trans-1,3-Dichloropropene	µg/Kg	14	--	--	0
Trichloroethene	µg/Kg	14	0.571 J	71.4 J	3
Vinyl chloride	µg/Kg	14	--	--	0
Xylenes (total)	µg/Kg	14	--	--	0

* Data qualifier included with concentration value

Table 4-10
Exposure Unit 5
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	7	7950	32400 E*	7
Antimony	mg/Kg	7	0.27 BN	0.421 BN	2
Arsenic	mg/Kg	7	2.3	5.18 N*	7
Barium	mg/Kg	7	60.3	441 *	7
Beryllium	mg/Kg	7	0.3 B	7.7 E*	7
Boron	mg/Kg	7	1.8 B	88.2 E*N	7
Cadmium	mg/Kg	7	0.34 B	0.91	4
Calcium	mg/Kg	7	1580	179000 *	7
Chromium	mg/Kg	7	9.1	30.1 *N	7
Cobalt	mg/Kg	7	2.3	12.3	7
Copper	mg/Kg	7	9.6	58.1 E*N	7
Iron	mg/Kg	7	7930	24700	7
Lead	mg/Kg	7	9.6	23.5	7
Lithium	mg/Kg	6	12.2	37.2	6
Magnesium	mg/Kg	7	1310	12200 *	7
Manganese	mg/Kg	7	122	5010 *	7
Mercury	mg/Kg	7	0.019 *	0.15	6
Nickel	mg/Kg	7	7.9	25.6 E	7
Potassium	mg/Kg	7	440	4050 *	7
Selenium	mg/Kg	7	0.31 B	2.35	6
Silver	mg/Kg	7	0.06 BN	0.213 B	7
Sodium	mg/Kg	7	33	1210 E*	7
Thallium	mg/Kg	7	0.1 B	0.15	5
Vanadium	mg/Kg	7	14.1	27	7
Zinc	mg/Kg	7	29.9 E*N	92.7	7
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	1	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	1	--	--	0
2,4-Dinitrotoluene	μg/Kg	6	--	--	0
2,6-Dinitrotoluene	μg/Kg	6	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	1	--	--	0
2-Nitrotoluene	μg/Kg	1	--	--	0
3-Dinitrobenzene	μg/Kg	1	--	--	0
3-Nitrotoluene	μg/Kg	1	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	1	--	--	0
4-Nitrotoluene	μg/Kg	1	--	--	0
HMX	μg/Kg	1	--	--	0
Nitrobenzene	μg/Kg	6	--	--	0
RDX	μg/Kg	1	--	--	0
Tetryl	μg/Kg	1	--	--	0
PAHs					
Acenaphthene	μg/Kg	6	--	--	0
Acenaphthylene	μg/Kg	6	96.2	96.2	1

* Data qualifier included with concentration value

Table 4-10
Exposure Unit 5
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	6	--	--	0
Benzo(a)anthracene	µg/Kg	6	145	145	1
Benzo(a)pyrene	µg/Kg	6	240	240	1
Benzo(b)fluoranthene	µg/Kg	6	561	561	1
Benzo(g,h,i)perylene	µg/Kg	6	176	176	1
Benzo(k)fluoranthene	µg/Kg	6	159	159	1
Chrysene	µg/Kg	6	216	216	1
Dibenzo(a,h)anthracene	µg/Kg	6	--	--	0
Fluoranthene	µg/Kg	6	258	258	1
Fluorene	µg/Kg	6	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	6	283	283	1
Naphthalene	µg/Kg	6	--	--	0
Phenanthrene	µg/Kg	6	24 J	24 J	1
Pyrene	µg/Kg	6	237	237	1
PCBs					
Aroclor-1016	µg/Kg	4	--	--	0
Aroclor-1221	µg/Kg	4	--	--	0
Aroclor-1232	µg/Kg	4	--	--	0
Aroclor-1242	µg/Kg	4	--	--	0
Aroclor-1248	µg/Kg	4	--	--	0
Aroclor-1254	µg/Kg	4	4.2	12 P	3
Aroclor-1260	µg/Kg	4	5.3	24.8 J	3
Pesticides					
4,4'-DDD	µg/Kg	4	--	--	0
4,4'-DDE	µg/Kg	4	2.6 P	2.6 P	1
4,4'-DDT	µg/Kg	4	5.4	5.4	1
Aldrin	µg/Kg	4	--	--	0
alpha-BHC	µg/Kg	4	--	--	0
alpha-Chlordane	µg/Kg	4	--	--	0
beta-BHC	µg/Kg	4	--	--	0
delta-BHC	µg/Kg	4	--	--	0
Dieldrin	µg/Kg	4	--	--	0
Endosulfan I	µg/Kg	4	--	--	0
Endosulfan II	µg/Kg	4	--	--	0
Endosulfan sulfate	µg/Kg	4	--	--	0
Endrin	µg/Kg	4	--	--	0
Endrin aldehyde	µg/Kg	4	--	--	0
Endrin ketone	µg/Kg	4	--	--	0
gamma-BHC (Lindane)	µg/Kg	4	--	--	0
gamma-Chlordane	µg/Kg	4	--	--	0
Heptachlor	µg/Kg	4	--	--	0
Heptachlor epoxide	µg/Kg	4	--	--	0
Methoxychlor	µg/Kg	4	--	--	0
Toxaphene	µg/Kg	4	--	--	0

* Data qualifier included with concentration value

Table 4-10
Exposure Unit 5
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	21	1.33	14.2	2
Alpha	pCi/g	6	11.3	21	6
Americium-241	pCi/g	21	--	--	0
Beta	pCi/g	6	10.2	24.9	6
Cesium-137	pCi/g	25	0.143	0.672	21
Cobalt-60	pCi/g	21	--	--	0
Potassium-40	pCi/g	16	11.3	22.4	16
Protactinium-231	pCi/g	21	--	--	0
Radium-226	pCi/g	26	0.734 J	285	26
Radium-228	pCi/g	21	0.654	1.12	21
Thorium-228	pCi/g	25	0.63 J	1.69	25
Thorium-230	pCi/g	26	0.717	8.73	25
Thorium-232	pCi/g	26	0.485 J	1.22	26
Total Uranium	μg/g	26	1.35	5	25
Uranium-234	pCi/g	26	0.434	2.37	26
Uranium-235	pCi/g	26	0.148 J	0.447	4
Uranium-238	pCi/g	26	0.586 J	2.45	26
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	6	--	--	0
1,2-Dichlorobenzene	μg/Kg	6	--	--	0
1,3-Dichlorobenzene	μg/Kg	6	--	--	0
1,4-Dichlorobenzene	μg/Kg	6	--	--	0
2,4,5-Trichlorophenol	μg/Kg	6	--	--	0
2,4,6-Trichlorophenol	μg/Kg	6	--	--	0
2,4-Dichlorophenol	μg/Kg	6	--	--	0
2,4-Dimethylphenol	μg/Kg	6	--	--	0
2,4-Dinitrophenol	μg/Kg	6	--	--	0
2-Chloronaphthalene	μg/Kg	6	--	--	0
2-Chlorophenol	μg/Kg	6	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	6	--	--	0
2-Methylnaphthalene	μg/Kg	6	--	--	0
2-Nitroaniline	μg/Kg	6	--	--	0
2-Nitrophenol	μg/Kg	6	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	6	--	--	0
3-Nitroaniline	μg/Kg	6	--	--	0
4-Bromophenylphenylether	μg/Kg	6	--	--	0
4-Chloro-3-methylphenol	μg/Kg	6	--	--	0
4-Chloroaniline	μg/Kg	6	--	--	0
4-Chlorophenylphenylether	μg/Kg	6	--	--	0
4-Nitroaniline	μg/Kg	6	--	--	0
4-Nitrophenol	μg/Kg	6	--	--	0
Benzoic Acid	μg/Kg	6	--	--	0
bis(2-Chloroethoxy)methane	μg/Kg	6	--	--	0

* Data qualifier included with concentration value

Table 4-10
Exposure Unit 5
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethyl)ether	µg/Kg	6	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	6	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	6	--	--	0
Butylbenzylphthalate	µg/Kg	6	--	--	0
Carbazole	µg/Kg	6	--	--	0
Dibenzofuran	µg/Kg	6	--	--	0
Diethylphthalate	µg/Kg	6	--	--	0
Dimethylphthalate	µg/Kg	6	--	--	0
Di-n-butylphthalate	µg/Kg	6	--	--	0
Di-n-octylphthalate	µg/Kg	6	--	--	0
Diphenylamine	µg/Kg	5	--	--	0
Hexachlorobenzene	µg/Kg	6	--	--	0
Hexachlorobutadiene	µg/Kg	6	--	--	0
Hexachlorocyclopentadiene	µg/Kg	6	--	--	0
Hexachloroethane	µg/Kg	6	--	--	0
Isophorone	µg/Kg	6	--	--	0
m,p-Cresols	µg/Kg	6	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	6	--	--	0
N-Nitrosodiphenylamine	µg/Kg	1	--	--	0
o-Cresol	µg/Kg	6	--	--	0
Pentachlorophenol	µg/Kg	6	--	--	0
Phenol	µg/Kg	6	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	4	0.83 J	0.83 J	1
1,1,2,2-Tetrachloroethane	µg/Kg	4	--	--	0
1,1,2-Trichloroethane	µg/Kg	4	--	--	0
1,1-Dichloroethane	µg/Kg	4	--	--	0
1,1-Dichloroethene	µg/Kg	4	0.648 J	0.648 J	1
1,2-Dichloroethane	µg/Kg	4	--	--	0
1,2-Dichloropropane	µg/Kg	4	--	--	0
2-Butanone	µg/Kg	4	5.1 J	5.1 J	1
2-Hexanone	µg/Kg	4	--	--	0
4-Methyl-2-pentanone	µg/Kg	4	--	--	0
Acetone	µg/Kg	4	1.5 J	51.7	2
Benzene	µg/Kg	4	1.2	1.2	1
Bromodichloromethane	µg/Kg	4	--	--	0
Bromoform	µg/Kg	4	--	--	0
Bromomethane	µg/Kg	4	--	--	0
Carbon disulfide	µg/Kg	4	2.4 J	2.4 J	1
Carbon tetrachloride	µg/Kg	4	--	--	0
Chlorobenzene	µg/Kg	4	--	--	0
Chloroethane	µg/Kg	4	--	--	0
Chloroform	µg/Kg	4	--	--	0
Chloromethane	µg/Kg	4	--	--	0

* Data qualifier included with concentration value

Table 4-10
Exposure Unit 5
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
cis-1,3-Dichloropropene	μg/Kg	4	--	--	0
Dibromochloromethane	μg/Kg	4	--	--	0
Ethylbenzene	μg/Kg	4	--	--	0
Methylene chloride	μg/Kg	4	--	--	0
Styrene	μg/Kg	4	--	--	0
Tetrachloroethene	μg/Kg	4	1.3	1.3	1
Toluene	μg/Kg	4	0.27 J	2.8	3
trans-1,3-Dichloropropene	μg/Kg	4	--	--	0
Trichloroethene	μg/Kg	4	1 J	1 J	1
Vinyl chloride	μg/Kg	4	--	--	0
Xylenes (total)	μg/Kg	4	0.8 J	1 J	2

* Data qualifier included with concentration value

Table 4-11
Exposure Unit 6
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	12	6790	15100 E*	12
Antimony	mg/Kg	12	0.65 BN	0.882 BN	2
Arsenic	mg/Kg	12	2.3	11.7	12
Barium	mg/Kg	12	71.9	143 E	12
Beryllium	mg/Kg	12	0.337 B	0.94 E	12
Boron	mg/Kg	12	1.3 B	8.4 *	12
Cadmium	mg/Kg	12	0.153 B	0.86	8
Calcium	mg/Kg	12	2060 *	47200 E*	12
Chromium	mg/Kg	12	8.76	21.1	12
Cobalt	mg/Kg	12	3.1	10.6	12
Copper	mg/Kg	12	21	35.6	12
Iron	mg/Kg	12	7370	26000	12
Lead	mg/Kg	12	4.3	47.3	12
Lithium	mg/Kg	12	13.4	28.6 E	12
Magnesium	mg/Kg	12	1790	9470 *	12
Manganese	mg/Kg	12	112	1180 *	12
Mercury	mg/Kg	12	0.02 B	0.35	12
Nickel	mg/Kg	12	11.6	25.6 E	12
Potassium	mg/Kg	12	479 N	1910 E	12
Selenium	mg/Kg	11	0.09 BN	2.3 B	10
Silver	mg/Kg	12	0.04 B	0.15 B	12
Sodium	mg/Kg	12	42 E	209	12
Thallium	mg/Kg	12	0.04 B	0.36	9
Vanadium	mg/Kg	12	14.5	30.8 E*N	12
Zinc	mg/Kg	12	35.2 E	199	12
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	7	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	7	--	--	0
2,4-Dinitrotoluene	μg/Kg	10	--	--	0
2,6-Dinitrotoluene	μg/Kg	10	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	7	--	--	0
2-Nitrotoluene	μg/Kg	7	--	--	0
3-Dinitrobenzene	μg/Kg	7	--	--	0
3-Nitrotoluene	μg/Kg	7	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	7	--	--	0
4-Nitrotoluene	μg/Kg	7	--	--	0
HMX	μg/Kg	7	--	--	0
Nitrobenzene	μg/Kg	10	--	--	0
RDX	μg/Kg	7	--	--	0
Tetryl	μg/Kg	7	--	--	0
PAHs					
Acenaphthene	μg/Kg	10	--	--	0
Acenaphthylene	μg/Kg	10	--	--	0

* Data qualifier included with concentration value

Table 4-11
Exposure Unit 6
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	10	--	--	0
Benzo(a)anthracene	µg/Kg	10	--	--	0
Benzo(a)pyrene	µg/Kg	10	--	--	0
Benzo(b)fluoranthene	µg/Kg	10	--	--	0
Benzo(g,h,i)perylene	µg/Kg	10	--	--	0
Benzo(k)fluoranthene	µg/Kg	10	280 J	280 J	1
Chrysene	µg/Kg	10	--	--	0
Dibenzo(a,h)anthracene	µg/Kg	10	--	--	0
Fluoranthene	µg/Kg	10	--	--	0
Fluorene	µg/Kg	10	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	10	--	--	0
Naphthalene	µg/Kg	10	--	--	0
Phenanthrene	µg/Kg	10	--	--	0
Pyrene	µg/Kg	10	--	--	0
PCBs					
Aroclor-1016	µg/Kg	7	--	--	0
Aroclor-1221	µg/Kg	7	--	--	0
Aroclor-1232	µg/Kg	7	--	--	0
Aroclor-1242	µg/Kg	7	--	--	0
Aroclor-1248	µg/Kg	7	--	--	0
Aroclor-1254	µg/Kg	7	5.9	11.3 P	3
Aroclor-1260	µg/Kg	7	5.2 J	14.7	4
Pesticides					
4,4'-DDD	µg/Kg	7	--	--	0
4,4'-DDE	µg/Kg	7	1.2 JP	1.2 JP	1
4,4'-DDT	µg/Kg	7	--	--	0
Aldrin	µg/Kg	7	--	--	0
alpha-BHC	µg/Kg	7	--	--	0
alpha-Chlordane	µg/Kg	7	--	--	0
beta-BHC	µg/Kg	7	--	--	0
delta-BHC	µg/Kg	7	0.48 JP	0.48 JP	1
Dieldrin	µg/Kg	7	0.45 JP	0.45 JP	1
Endosulfan I	µg/Kg	7	--	--	0
Endosulfan II	µg/Kg	7	--	--	0
Endosulfan sulfate	µg/Kg	7	--	--	0
Endrin	µg/Kg	7	--	--	0
Endrin aldehyde	µg/Kg	7	--	--	0
Endrin ketone	µg/Kg	7	--	--	0
gamma-BHC (Lindane)	µg/Kg	7	--	--	0
gamma-Chlordane	µg/Kg	7	--	--	0
Heptachlor	µg/Kg	7	--	--	0
Heptachlor epoxide	µg/Kg	7	--	--	0
Methoxychlor	µg/Kg	7	--	--	0
Toxaphene	µg/Kg	7	--	--	0

* Data qualifier included with concentration value

Table 4-11
Exposure Unit 6
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	23	0.579	18.9	4
Alpha	pCi/g	11	7.05	1390	11
Americium-241	pCi/g	23	--	--	0
Beta	pCi/g	11	13	739	11
Cesium-137	pCi/g	27	0.0361	0.848	23
Cobalt-60	pCi/g	23	--	--	0
Potassium-40	pCi/g	16	6.25	19.8	16
Protactinium-231	pCi/g	23	18.9	18.9	1
Radium-226	pCi/g	31	0.683	182	31
Radium-228	pCi/g	23	0.624	1.14	22
Thorium-228	pCi/g	31	0.579	1.41	31
Thorium-230	pCi/g	31	0.642 J	352	30
Thorium-232	pCi/g	31	0.306	1.11	31
Total Uranium	μg/g	31	1.48	287	29
Uranium-234	pCi/g	31	0.33	42.5	31
Uranium-235	pCi/g	31	0.078 J	2.13	5
Uranium-238	pCi/g	31	0.295	41.5	31
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	10	--	--	0
1,2-Dichlorobenzene	μg/Kg	10	--	--	0
1,3-Dichlorobenzene	μg/Kg	10	--	--	0
1,4-Dichlorobenzene	μg/Kg	10	--	--	0
2,4,5-Trichlorophenol	μg/Kg	10	--	--	0
2,4,6-Trichlorophenol	μg/Kg	10	--	--	0
2,4-Dichlorophenol	μg/Kg	10	--	--	0
2,4-Dimethylphenol	μg/Kg	10	--	--	0
2,4-Dinitrophenol	μg/Kg	10	--	--	0
2-Chloronaphthalene	μg/Kg	10	--	--	0
2-Chlorophenol	μg/Kg	10	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	10	--	--	0
2-Methylnaphthalene	μg/Kg	10	--	--	0
2-Nitroaniline	μg/Kg	10	--	--	0
2-Nitrophenol	μg/Kg	10	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	10	--	--	0
3-Nitroaniline	μg/Kg	10	--	--	0
4-Bromophenylphenylether	μg/Kg	10	--	--	0
4-Chloro-3-methylphenol	μg/Kg	10	--	--	0
4-Chloroaniline	μg/Kg	10	--	--	0
4-Chlorophenylphenylether	μg/Kg	10	--	--	0
4-Nitroaniline	μg/Kg	10	--	--	0
4-Nitrophenol	μg/Kg	10	--	--	0
Benzoic Acid	μg/Kg	10	--	--	0
bis(2-Chloroethoxy)methane	μg/Kg	10	--	--	0

* Data qualifier included with concentration value

Table 4-11
Exposure Unit 6
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethyl)ether	μg/Kg	10	--	--	0
bis(2-Chloroisopropyl)ether	μg/Kg	10	--	--	0
bis(2-Ethylhexyl)phthalate	μg/Kg	10	177 J	319 J	3
Butylbenzylphthalate	μg/Kg	10	--	--	0
Carbazole	μg/Kg	10	--	--	0
Dibenzofuran	μg/Kg	10	--	--	0
Diethylphthalate	μg/Kg	10	--	--	0
Dimethylphthalate	μg/Kg	10	--	--	0
Di-n-butylphthalate	μg/Kg	10	--	--	0
Di-n-octylphthalate	μg/Kg	10	--	--	0
Diphenylamine	μg/Kg	10	--	--	0
Hexachlorobenzene	μg/Kg	10	--	--	0
Hexachlorobutadiene	μg/Kg	10	--	--	0
Hexachlorocyclopentadiene	μg/Kg	10	--	--	0
Hexachloroethane	μg/Kg	10	--	--	0
Isophorone	μg/Kg	10	--	--	0
m,p-Cresols	μg/Kg	10	--	--	0
N-Nitroso-di-n-propylamine	μg/Kg	10	--	--	0
o-Cresol	μg/Kg	10	--	--	0
Pentachlorophenol	μg/Kg	10	--	--	0
Phenol	μg/Kg	10	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	μg/Kg	8	--	--	0
1,1,2,2-Tetrachloroethane	μg/Kg	8	--	--	0
1,1,2-Trichloroethane	μg/Kg	8	--	--	0
1,1-Dichloroethane	μg/Kg	8	--	--	0
1,1-Dichloroethene	μg/Kg	8	--	--	0
1,2-Dichloroethane	μg/Kg	8	--	--	0
1,2-Dichloropropane	μg/Kg	8	--	--	0
2-Butanone	μg/Kg	8	2.6 J	12	2
2-Hexanone	μg/Kg	8	0.71 J	0.71 J	1
4-Methyl-2-pentanone	μg/Kg	8	--	--	0
Acetone	μg/Kg	8	3.2 J	98.1	3
Benzene	μg/Kg	8	1.3	1.4	2
Bromodichloromethane	μg/Kg	8	--	--	0
Bromoform	μg/Kg	8	--	--	0
Bromomethane	μg/Kg	8	--	--	0
Carbon disulfide	μg/Kg	8	2 J	2.4 J	2
Carbon tetrachloride	μg/Kg	8	--	--	0
Chlorobenzene	μg/Kg	8	--	--	0
Chloroethane	μg/Kg	8	--	--	0
Chloroform	μg/Kg	8	--	--	0
Chloromethane	μg/Kg	8	--	--	0
cis-1,3-Dichloropropene	μg/Kg	8	--	--	0

* Data qualifier included with concentration value

Table 4-11
Exposure Unit 6
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Dibromochloromethane	µg/Kg	8	--	--	0
Ethylbenzene	µg/Kg	8	--	--	0
Methylene chloride	µg/Kg	8	7.1 JB	7.1 JB	1
Styrene	µg/Kg	8	--	--	0
Tetrachloroethene	µg/Kg	8	--	--	0
Toluene	µg/Kg	8	0.25 J	1.3	3
trans-1,3-Dichloropropene	µg/Kg	8	--	--	0
Trichloroethene	µg/Kg	8	--	--	0
Vinyl chloride	µg/Kg	8	--	--	0
Xylenes (total)	µg/Kg	8	0.76 J	0.76 J	1

* Data qualifier included with concentration value

Table 4-12
Exposure Unit 7
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	10	10800 *	16200 *	10
Antimony	mg/Kg	10	0.489 BN	1.52 BN	3
Arsenic	mg/Kg	10	2.8	5.87	10
Barium	mg/Kg	10	94.5 *	143 *	10
Beryllium	mg/Kg	10	0.422 B	0.731 B	10
Boron	mg/Kg	10	2.52 B	12.1 B	10
Cadmium	mg/Kg	10	0.185 B	0.46 B	4
Calcium	mg/Kg	10	5600	48200	10
Chromium	mg/Kg	10	13.3	21.2	10
Cobalt	mg/Kg	10	5.75	17.5 E*	10
Copper	mg/Kg	10	20.2 E*N	35.8 *N	10
Iron	mg/Kg	10	15500	23700	10
Lead	mg/Kg	10	5.45	19.8 E*	10
Lithium	mg/Kg	10	22.1	27.3 E*	10
Magnesium	mg/Kg	10	3270	22800	10
Manganese	mg/Kg	10	293	827 E	10
Mercury	mg/Kg	10	0.01 B	0.054 *	10
Nickel	mg/Kg	10	12.8	31.4	10
Potassium	mg/Kg	10	920 E	2880	10
Selenium	mg/Kg	10	0.371 B	2.46 N	9
Silver	mg/Kg	10	0.055 B	0.11 B	10
Sodium	mg/Kg	10	47.5	173	10
Thallium	mg/Kg	10	0.06 B	0.158	10
Vanadium	mg/Kg	10	19.9	30.7	10
Zinc	mg/Kg	10	35.1 N	96.8 E*N	10
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	1	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	1	--	--	0
2,4-Dinitrotoluene	μg/Kg	8	--	--	0
2,6-Dinitrotoluene	μg/Kg	8	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	1	--	--	0
2-Nitrotoluene	μg/Kg	1	--	--	0
3-Dinitrobenzene	μg/Kg	1	--	--	0
3-Nitrotoluene	μg/Kg	1	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	1	--	--	0
4-Nitrotoluene	μg/Kg	1	--	--	0
HMX	μg/Kg	1	--	--	0
Nitrobenzene	μg/Kg	8	--	--	0
RDX	μg/Kg	1	--	--	0
Tetryl	μg/Kg	1	--	--	0
PAHs					
Acenaphthene	μg/Kg	8	--	--	0
Acenaphthylene	μg/Kg	8	--	--	0

* Data qualifier included with concentration value

Table 4-12
Exposure Unit 7
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	8	--	--	0
Benzo(a)anthracene	µg/Kg	8	3.75 J	45.7 P	4
Benzo(a)pyrene	µg/Kg	8	3.3	41	5
Benzo(b)fluoranthene	µg/Kg	8	6.76 J	93.6 P	4
Benzo(g,h,i)perylene	µg/Kg	8	10.3 h	36.8	3
Benzo(k)fluoranthene	µg/Kg	8	2.64 J	24.5	4
Chrysene	µg/Kg	8	0.886 Jh	41.8	7
Dibenzo(a,h)anthracene	µg/Kg	8	2.77 h	2.77 h	1
Fluoranthene	µg/Kg	8	0.617 J	83	7
Fluorene	µg/Kg	8	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	8	--	--	0
Naphthalene	µg/Kg	8	2.99 Jh	17.3 J	2
Phenanthrene	µg/Kg	8	3.95 J	45.1	5
Pyrene	µg/Kg	8	4.1	75.2	5
PCBs					
Aroclor-1016	µg/Kg	8	--	--	0
Aroclor-1221	µg/Kg	8	--	--	0
Aroclor-1232	µg/Kg	8	--	--	0
Aroclor-1242	µg/Kg	8	--	--	0
Aroclor-1248	µg/Kg	8	--	--	0
Aroclor-1254	µg/Kg	8	--	--	0
Aroclor-1260	µg/Kg	8	2.2 J	2.2 J	1
Pesticides					
4,4'-DDD	µg/Kg	8	--	--	0
4,4'-DDE	µg/Kg	8	0.387 J	1.33 J	5
4,4'-DDT	µg/Kg	8	0.506 J	1.82	4
Aldrin	µg/Kg	8	--	--	0
alpha-BHC	µg/Kg	8	--	--	0
alpha-Chlordane	µg/Kg	8	--	--	0
beta-BHC	µg/Kg	8	--	--	0
delta-BHC	µg/Kg	8	--	--	0
Dieldrin	µg/Kg	8	--	--	0
Endosulfan I	µg/Kg	8	--	--	0
Endosulfan II	µg/Kg	8	--	--	0
Endosulfan sulfate	µg/Kg	8	--	--	0
Endrin	µg/Kg	8	--	--	0
Endrin aldehyde	µg/Kg	8	--	--	0
Endrin ketone	µg/Kg	8	--	--	0
gamma-BHC (Lindane)	µg/Kg	8	--	--	0
gamma-Chlordane	µg/Kg	8	--	--	0
Heptachlor	µg/Kg	8	--	--	0
Heptachlor epoxide	µg/Kg	8	--	--	0
Methoxychlor	µg/Kg	8	--	--	0
Toxaphene	µg/Kg	8	--	--	0

* Data qualifier included with concentration value

Table 4-12
Exposure Unit 7
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	29	0.341	24	8
Alpha	pCi/g	13	6.54	66.4	13
Americium-241	pCi/g	29	--	--	0
Beta	pCi/g	13	12.8	44.1	13
Cesium-137	pCi/g	30	0.0269	1.07	22
Cobalt-60	pCi/g	29	--	--	0
Potassium-40	pCi/g	17	9.64	20	17
Protactinium-231	pCi/g	29	17.1	17.1	1
Radium-226	pCi/g	32	0.432	446	32
Radium-228	pCi/g	29	0.388	1.2	28
Thorium-228	pCi/g	32	0.547	1.61	30
Thorium-230	pCi/g	32	0.851	536	32
Thorium-232	pCi/g	32	0.496	1.7	32
Total Uranium	μg/g	32	0.57	19	32
Uranium-234	pCi/g	32	0.407	9.68	32
Uranium-235	pCi/g	32	0.0512	0.394	13
Uranium-238	pCi/g	32	0.555	7.1	32
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	8	--	--	0
1,2-Dichlorobenzene	μg/Kg	8	--	--	0
1,3-Dichlorobenzene	μg/Kg	8	--	--	0
1,4-Dichlorobenzene	μg/Kg	8	--	--	0
2,4,5-Trichlorophenol	μg/Kg	8	--	--	0
2,4,6-Trichlorophenol	μg/Kg	8	--	--	0
2,4-Dichlorophenol	μg/Kg	8	--	--	0
2,4-Dimethylphenol	μg/Kg	8	--	--	0
2,4-Dinitrophenol	μg/Kg	8	--	--	0
2-Chloronaphthalene	μg/Kg	8	--	--	0
2-Chlorophenol	μg/Kg	8	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	8	--	--	0
2-Methylnaphthalene	μg/Kg	8	--	--	0
2-Nitroaniline	μg/Kg	8	--	--	0
2-Nitrophenol	μg/Kg	8	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	8	--	--	0
3-Nitroaniline	μg/Kg	8	--	--	0
4-Bromophenylphenylether	μg/Kg	8	--	--	0
4-Chloro-3-methylphenol	μg/Kg	8	--	--	0
4-Chloroaniline	μg/Kg	8	--	--	0
4-Chlorophenylphenylether	μg/Kg	8	--	--	0
4-Nitroaniline	μg/Kg	8	--	--	0
4-Nitrophenol	μg/Kg	8	--	--	0
Benzoic Acid	μg/Kg	8	--	--	0
bis(2-Chloroethoxy)methane	μg/Kg	8	--	--	0

* Data qualifier included with concentration value

Table 4-12
Exposure Unit 7
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethyl)ether	µg/Kg	8	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	8	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	8	118 J	118 J	1
Butylbenzylphthalate	µg/Kg	8	--	--	0
Carbazole	µg/Kg	8	--	--	0
Dibenzofuran	µg/Kg	8	--	--	0
Diethylphthalate	µg/Kg	8	--	--	0
Dimethylphthalate	µg/Kg	8	--	--	0
Di-n-butylphthalate	µg/Kg	8	--	--	0
Di-n-octylphthalate	µg/Kg	8	--	--	0
Diphenylamine	µg/Kg	1	--	--	0
Hexachlorobenzene	µg/Kg	8	--	--	0
Hexachlorobutadiene	µg/Kg	8	--	--	0
Hexachlorocyclopentadiene	µg/Kg	8	--	--	0
Hexachloroethane	µg/Kg	8	--	--	0
Isophorone	µg/Kg	8	--	--	0
m,p-Cresols	µg/Kg	8	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	8	--	--	0
N-Nitrosodiphenylamine	µg/Kg	7	--	--	0
o-Cresol	µg/Kg	8	--	--	0
Pentachlorophenol	µg/Kg	8	--	--	0
Phenol	µg/Kg	8	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	9	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	9	--	--	0
1,1,2-Trichloroethane	µg/Kg	9	--	--	0
1,1-Dichloroethane	µg/Kg	9	--	--	0
1,1-Dichloroethene	µg/Kg	9	0.714 J	1.02	3
1,2-Dichloroethane	µg/Kg	9	--	--	0
1,2-Dichloropropane	µg/Kg	9	--	--	0
2-Butanone	µg/Kg	9	9.19	71.9	2
2-Hexanone	µg/Kg	9	--	--	0
4-Methyl-2-pentanone	µg/Kg	9	--	--	0
Acetone	µg/Kg	9	8.22	69.4	3
Benzene	µg/Kg	9	2	2.6	2
Bromodichloromethane	µg/Kg	9	--	--	0
Bromoform	µg/Kg	9	--	--	0
Bromomethane	µg/Kg	9	--	--	0
Carbon disulfide	µg/Kg	9	1.6 J	1.6 J	1
Carbon tetrachloride	µg/Kg	9	--	--	0
Chlorobenzene	µg/Kg	9	--	--	0
Chloroethane	µg/Kg	9	--	--	0
Chloroform	µg/Kg	9	--	--	0
Chloromethane	µg/Kg	9	--	--	0

* Data qualifier included with concentration value

Table 4-12
Exposure Unit 7
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
cis-1,3-Dichloropropene	μg/Kg	9	--	--	0
Dibromochloromethane	μg/Kg	9	--	--	0
Ethylbenzene	μg/Kg	9	--	--	0
Methylene chloride	μg/Kg	9	--	--	0
Styrene	μg/Kg	9	--	--	0
Tetrachloroethene	μg/Kg	9	--	--	0
Toluene	μg/Kg	9	3.2	3.4	2
trans-1,3-Dichloropropene	μg/Kg	9	--	--	0
Trichloroethene	μg/Kg	9	--	--	0
Vinyl chloride	μg/Kg	9	--	--	0
Xylenes (total)	μg/Kg	9	--	--	0

* Data qualifier included with concentration value

Table 4-13
Exposure Unit 8
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	15	6460	20600	15
Antimony	mg/Kg	15	0.25 BN	0.434 BN*	2
Arsenic	mg/Kg	15	2.5 B	7.8	15
Barium	mg/Kg	15	76.3 N	146 N*	15
Beryllium	mg/Kg	15	0.4 B	1.6	15
Boron	mg/Kg	15	2.6 B	16.5 E*N	15
Cadmium	mg/Kg	15	0.119 B	1.2	10
Calcium	mg/Kg	15	4730 E*	99000	15
Chromium	mg/Kg	15	10.7 *	42.4	15
Cobalt	mg/Kg	15	3.2 E*	16.7	15
Copper	mg/Kg	15	12.9 *N	129 *	15
Iron	mg/Kg	15	11400	37300	15
Lead	mg/Kg	15	6.4 E*	99.8 N	15
Lithium	mg/Kg	15	12.3 EN	40.5	15
Magnesium	mg/Kg	15	2070 *	54400	15
Manganese	mg/Kg	15	148 E	1000 *	15
Mercury	mg/Kg	15	0.0094 B	0.21	15
Nickel	mg/Kg	15	9.8	42.5	15
Potassium	mg/Kg	15	670	3190	15
Selenium	mg/Kg	15	0.32 B	1.8 B	15
Silver	mg/Kg	15	0.03 B	0.197 B	15
Sodium	mg/Kg	15	42.7 *	356 E	15
Thallium	mg/Kg	15	0.07 B	0.27	13
Vanadium	mg/Kg	15	16 *	43.3	15
Zinc	mg/Kg	15	25.8 E*	227	15
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	5	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	5	--	--	0
2,4-Dinitrotoluene	μg/Kg	36	--	--	0
2,6-Dinitrotoluene	μg/Kg	36	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	5	--	--	0
2-Nitrotoluene	μg/Kg	5	109	109	1
3-Dinitrobenzene	μg/Kg	5	--	--	0
3-Nitrotoluene	μg/Kg	5	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	5	--	--	0
4-Nitrotoluene	μg/Kg	5	--	--	0
HMX	μg/Kg	5	--	--	0
Nitrobenzene	μg/Kg	36	--	--	0
RDX	μg/Kg	5	--	--	0
Tetryl	μg/Kg	5	--	--	0
PAHs					
Acenaphthene	μg/Kg	35	16.5 J	13300 J	4
Acenaphthylene	μg/Kg	36	37.8 J	37.8 J	1

* Data qualifier included with concentration value

Table 4-13
Exposure Unit 8
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	36	216 J	24700	5
Benzo(a)anthracene	µg/Kg	36	21.3	73300	12
Benzo(a)pyrene	µg/Kg	36	28.2	82500	12
Benzo(b)fluoranthene	µg/Kg	36	47.3	42800 D	14
Benzo(g,h,i)perylene	µg/Kg	36	45.7	54100	8
Benzo(k)fluoranthene	µg/Kg	36	38.7	62900	8
Chrysene	µg/Kg	36	23.1	76000	12
Dibenzo(a,h)anthracene	µg/Kg	36	21	22500	5
Fluoranthene	µg/Kg	36	43.9	92400 D	15
Fluorene	µg/Kg	36	226 J	15200 J	9
Indeno(1,2,3-cd)pyrene	µg/Kg	36	48.1	43600	12
Naphthalene	µg/Kg	36	9.37 J	235 J	5
Phenanthrene	µg/Kg	36	24.7 J	71600 D	13
Pyrene	µg/Kg	35	36.9	99700 D	14
PCBs					
Aroclor-1016	µg/Kg	10	--	--	0
Aroclor-1221	µg/Kg	10	--	--	0
Aroclor-1232	µg/Kg	10	--	--	0
Aroclor-1242	µg/Kg	10	--	--	0
Aroclor-1248	µg/Kg	10	--	--	0
Aroclor-1254	µg/Kg	10	--	--	0
Aroclor-1260	µg/Kg	10	4.6	20.8	4
Pesticides					
4,4'-DDD	µg/Kg	10	--	--	0
4,4'-DDE	µg/Kg	10	0.538 J	13.3	4
4,4'-DDT	µg/Kg	10	1.29 J	18.9	3
Aldrin	µg/Kg	10	--	--	0
alpha-BHC	µg/Kg	10	--	--	0
alpha-Chlordane	µg/Kg	10	--	--	0
beta-BHC	µg/Kg	10	--	--	0
delta-BHC	µg/Kg	10	--	--	0
Dieldrin	µg/Kg	10	--	--	0
Endosulfan I	µg/Kg	10	--	--	0
Endosulfan II	µg/Kg	10	--	--	0
Endosulfan sulfate	µg/Kg	10	--	--	0
Endrin	µg/Kg	10	--	--	0
Endrin aldehyde	µg/Kg	10	--	--	0
Endrin ketone	µg/Kg	10	--	--	0
gamma-BHC (Lindane)	µg/Kg	10	--	--	0
gamma-Chlordane	µg/Kg	10	--	--	0
Heptachlor	µg/Kg	10	--	--	0
Heptachlor epoxide	µg/Kg	10	--	--	0
Methoxychlor	µg/Kg	10	--	--	0
Toxaphene	µg/Kg	10	--	--	0

* Data qualifier included with concentration value

Table 4-13
Exposure Unit 8
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	71	0.487	3.07	12
Alpha	pCi/g	19	13.3	172	19
Americium-241	pCi/g	71	0.112	0.636	3
Beta	pCi/g	19	19.9	94.2	19
Cesium-137	pCi/g	80	0.0306	3	68
Cobalt-60	pCi/g	71	--	--	0
Plutonium-238	pCi/g	2	--	--	0
Plutonium-239/240	pCi/g	2	--	--	0
Potassium-40	pCi/g	28	3.18	19.3	28
Protactinium-231	pCi/g	71	--	--	0
Radium-226	pCi/g	86	0.552	82.1	86
Radium-228	pCi/g	71	0.0607	1.2	70
Thorium-228	pCi/g	86	0.425	1.86	85
Thorium-230	pCi/g	86	0.338	87.9	86
Thorium-232	pCi/g	86	0.325	1.48	85
Total Uranium	μg/g	86	1.12	5630	84
Uranium-234	pCi/g	86	0.566 J	1420	86
Uranium-235	pCi/g	86	0.07 J	96.2	26
Uranium-238	pCi/g	86	0.503	1420	86
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	36	--	--	0
1,2-Dichlorobenzene	μg/Kg	36	--	--	0
1,3-Dichlorobenzene	μg/Kg	36	--	--	0
1,4-Dichlorobenzene	μg/Kg	36	--	--	0
2,4,5-Trichlorophenol	μg/Kg	36	--	--	0
2,4,6-Trichlorophenol	μg/Kg	36	--	--	0
2,4-Dichlorophenol	μg/Kg	36	--	--	0
2,4-Dimethylphenol	μg/Kg	36	--	--	0
2,4-Dinitrophenol	μg/Kg	36	--	--	0
2-Chloronaphthalene	μg/Kg	36	--	--	0
2-Chlorophenol	μg/Kg	36	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	36	--	--	0
2-Methylnaphthalene	μg/Kg	36	73.4 J	354 J	3
2-Nitroaniline	μg/Kg	35	--	--	0
2-Nitrophenol	μg/Kg	36	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	36	--	--	0
3-Nitroaniline	μg/Kg	36	--	--	0
4-Bromophenylphenylether	μg/Kg	36	--	--	0
4-Chloro-3-methylphenol	μg/Kg	36	--	--	0
4-Chloroaniline	μg/Kg	36	--	--	0
4-Chlorophenylphenylether	μg/Kg	36	--	--	0
4-Nitroaniline	μg/Kg	36	--	--	0
4-Nitrophenol	μg/Kg	36	--	--	0

* Data qualifier included with concentration value

Table 4-13
Exposure Unit 8
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Benzoic Acid	µg/Kg	36	--	--	0
Benzyl Alcohol	µg/Kg	1	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	36	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	36	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	36	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	36	297 J	297 J	1
Butylbenzylphthalate	µg/Kg	36	--	--	0
Carbazole	µg/Kg	36	1140 J	20000	4
Dibenzofuran	µg/Kg	36	2180	2180	1
Diethylphthalate	µg/Kg	36	--	--	0
Dimethylphthalate	µg/Kg	36	--	--	0
Di-n-butylphthalate	µg/Kg	36	--	--	0
Di-n-octylphthalate	µg/Kg	36	--	--	0
Diphenylamine	µg/Kg	33	--	--	0
Hexachlorobenzene	µg/Kg	36	--	--	0
Hexachlorobutadiene	µg/Kg	36	--	--	0
Hexachlorocyclopentadiene	µg/Kg	36	--	--	0
Hexachloroethane	µg/Kg	36	--	--	0
Isophorone	µg/Kg	36	--	--	0
m,p-Cresols	µg/Kg	36	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	36	--	--	0
N-Nitrosodiphenylamine	µg/Kg	3	--	--	0
o-Cresol	µg/Kg	36	--	--	0
Pentachlorophenol	µg/Kg	36	--	--	0
Phenol	µg/Kg	36	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	15	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	15	--	--	0
1,1,2-Trichloroethane	µg/Kg	15	--	--	0
1,1-Dichloroethane	µg/Kg	15	--	--	0
1,1-Dichloroethene	µg/Kg	15	1.4	1.4	1
1,2-Dichloroethane	µg/Kg	15	--	--	0
1,2-Dichloropropane	µg/Kg	15	--	--	0
2-Butanone	µg/Kg	15	--	--	0
2-Hexanone	µg/Kg	15	--	--	0
4-Methyl-2-pentanone	µg/Kg	15	--	--	0
Acetone	µg/Kg	15	13.7	13.7	1
Benzene	µg/Kg	15	--	--	0
Bromodichloromethane	µg/Kg	15	--	--	0
Bromoform	µg/Kg	15	--	--	0
Bromomethane	µg/Kg	15	--	--	0
Carbon disulfide	µg/Kg	15	--	--	0
Carbon tetrachloride	µg/Kg	15	--	--	0
Chlorobenzene	µg/Kg	15	--	--	0

* Data qualifier included with concentration value

Table 4-13
Exposure Unit 8
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chloroethane	µg/Kg	15	--	--	0
Chloroform	µg/Kg	15	0.45 J	0.45 J	1
Chloromethane	µg/Kg	15	--	--	0
cis-1,3-Dichloropropene	µg/Kg	15	--	--	0
Dibromochloromethane	µg/Kg	15	--	--	0
Ethylbenzene	µg/Kg	15	--	--	0
Methylene chloride	µg/Kg	15	--	--	0
Styrene	µg/Kg	15	--	--	0
Tetrachloroethene	µg/Kg	15	0.84 J	0.84 J	1
Toluene	µg/Kg	15	0.21 J	5.7	3
trans-1,3-Dichloropropene	µg/Kg	15	--	--	0
Trichloroethene	µg/Kg	15	--	--	0
Vinyl chloride	µg/Kg	15	--	--	0
Xylenes (total)	µg/Kg	14	--	--	0

* Data qualifier included with concentration value

Table 4-14
Exposure Unit 10
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	29	9600	21900 *	29
Antimony	mg/Kg	29	0.589 BN	3.92 J	15
Arsenic	mg/Kg	29	2.8	5.9	29
Barium	mg/Kg	29	66.4	210	29
Beryllium	mg/Kg	29	0.478 B	1.1	29
Boron	mg/Kg	29	3.4 BN	14.8	29
Cadmium	mg/Kg	29	0.03 B	0.623 J	19
Calcium	mg/Kg	29	5370	110000	29
Chromium	mg/Kg	29	14.4	27.9	29
Cobalt	mg/Kg	29	5.87	16.2 *	29
Copper	mg/Kg	29	14.8 E	40	29
Iron	mg/Kg	29	16300 *	38800	29
Lead	mg/Kg	29	6.09	22.6 N	29
Lithium	mg/Kg	28	19.2 NE	34.4 E	28
Magnesium	mg/Kg	29	4840	56300 *	29
Manganese	mg/Kg	29	372	4570	29
Mercury	mg/Kg	29	0.003 B	0.055	27
Nickel	mg/Kg	29	13.9	36.6	29
Potassium	mg/Kg	29	1130 E	3570	29
Selenium	mg/Kg	29	0.364 B	2.76	22
Silver	mg/Kg	29	0.03 B	0.193 B	28
Sodium	mg/Kg	29	78.4 EN	231	29
Thallium	mg/Kg	29	0.096 B	0.221 B	29
Vanadium	mg/Kg	29	20.1	39.8	29
Zinc	mg/Kg	29	30.8	830	29
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	3	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	3	--	--	0
2,4-Dinitrotoluene	μg/Kg	27	--	--	0
2,6-Dinitrotoluene	μg/Kg	27	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	3	--	--	0
2-Nitrotoluene	μg/Kg	3	--	--	0
3-Dinitrobenzene	μg/Kg	3	--	--	0
3-Nitrotoluene	μg/Kg	3	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	3	--	--	0
4-Nitrotoluene	μg/Kg	3	--	--	0
HMX	μg/Kg	3	--	--	0
Nitrobenzene	μg/Kg	27	--	--	0
RDX	μg/Kg	3	--	--	0
Tetryl	μg/Kg	3	--	--	0
PAHs					
Acenaphthene	μg/Kg	27	10.9 J	13.7	2
Acenaphthylene	μg/Kg	27	85.8	85.8	1

* Data qualifier included with concentration value

Table 4-14
Exposure Unit 10
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	27	8.46 J	136	3
Benzo(a)anthracene	µg/Kg	27	1.09 Jh	900	18
Benzo(a)pyrene	µg/Kg	27	2.09	691	15
Benzo(b)fluoranthene	µg/Kg	27	0.604	1280	17
Benzo(g,h,i)perylene	µg/Kg	27	1.47 J	300	12
Benzo(k)fluoranthene	µg/Kg	27	0.76	31.5 h	12
Chrysene	µg/Kg	27	1.57 J	1010	22
Dibenzo(a,h)anthracene	µg/Kg	27	1.43 J	6.8	3
Fluoranthene	µg/Kg	27	1.43 JP	1760	23
Fluorene	µg/Kg	27	7.21 J	30.7 J	3
Indeno(1,2,3-cd)pyrene	µg/Kg	27	42.4	387	3
Naphthalene	µg/Kg	27	2.44 JP	2.44 JP	1
Phenanthrene	µg/Kg	27	2 J	624	15
Pyrene	µg/Kg	27	1.77 JP	1420	20
PCBs					
Aroclor-1016	µg/Kg	26	--	--	0
Aroclor-1221	µg/Kg	26	--	--	0
Aroclor-1232	µg/Kg	26	--	--	0
Aroclor-1242	µg/Kg	26	8.8	8.8	1
Aroclor-1248	µg/Kg	26	--	--	0
Aroclor-1254	µg/Kg	26	10.4	10.4	1
Aroclor-1260	µg/Kg	26	2.13 J	4.4	3
Pesticides					
4,4'-DDD	µg/Kg	26	2.18 J	2.18 J	1
4,4'-DDE	µg/Kg	26	0.302 J	5.33 J	10
4,4'-DDT	µg/Kg	26	0.587 J	12.5	11
Aldrin	µg/Kg	26	--	--	0
alpha-BHC	µg/Kg	26	--	--	0
alpha-Chlordane	µg/Kg	26	--	--	0
beta-BHC	µg/Kg	26	--	--	0
delta-BHC	µg/Kg	26	--	--	0
Dieldrin	µg/Kg	26	0.222 J	0.237 J	2
Endosulfan I	µg/Kg	26	--	--	0
Endosulfan II	µg/Kg	26	--	--	0
Endosulfan sulfate	µg/Kg	26	--	--	0
Endrin	µg/Kg	26	--	--	0
Endrin aldehyde	µg/Kg	26	--	--	0
Endrin ketone	µg/Kg	26	--	--	0
gamma-BHC (Lindane)	µg/Kg	26	--	--	0
gamma-Chlordane	µg/Kg	26	0.306 J	0.306 J	1
Heptachlor	µg/Kg	26	--	--	0
Heptachlor epoxide	µg/Kg	26	--	--	0
Methoxychlor	µg/Kg	26	--	--	0
Toxaphene	µg/Kg	26	--	--	0

* Data qualifier included with concentration value

Table 4-14
Exposure Unit 10
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	34	0.278	0.278	1
Alpha	pCi/g	29	7.19	68.2	28
Americium-241	pCi/g	34	--	--	0
Beta	pCi/g	29	13	43.5	29
Cesium-137	pCi/g	34	0.0372	0.35	12
Cobalt-60	pCi/g	34	--	--	0
Potassium-40	pCi/g	5	14.7	19.7	5
Protactinium-231	pCi/g	34	--	--	0
Radium-226	pCi/g	37	0.652	8.52	37
Radium-228	pCi/g	34	0.767	1.12	34
Thorium-228	pCi/g	37	0.549	1.71	37
Thorium-230	pCi/g	37	0.673	10.1	36
Thorium-232	pCi/g	37	0.605	1.58	37
Total Uranium	μg/g	37	1.08	40.2	37
Uranium-234	pCi/g	37	0.431	18.9	37
Uranium-235	pCi/g	37	0.065	0.935	8
Uranium-238	pCi/g	37	0.61	21	37
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	26	--	--	0
1,2-Dichlorobenzene	μg/Kg	27	--	--	0
1,3-Dichlorobenzene	μg/Kg	27	--	--	0
1,4-Dichlorobenzene	μg/Kg	27	--	--	0
2,4,5-Trichlorophenol	μg/Kg	27	--	--	0
2,4,6-Trichlorophenol	μg/Kg	27	--	--	0
2,4-Dichlorophenol	μg/Kg	27	--	--	0
2,4-Dimethylphenol	μg/Kg	27	--	--	0
2,4-Dinitrophenol	μg/Kg	27	--	--	0
2-Chloronaphthalene	μg/Kg	27	--	--	0
2-Chlorophenol	μg/Kg	27	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	27	--	--	0
2-Methylnaphthalene	μg/Kg	27	--	--	0
2-Nitroaniline	μg/Kg	27	--	--	0
2-Nitrophenol	μg/Kg	27	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	27	--	--	0
3-Nitroaniline	μg/Kg	27	--	--	0
4-Bromophenylphenylether	μg/Kg	27	--	--	0
4-Chloro-3-methylphenol	μg/Kg	27	--	--	0
4-Chloroaniline	μg/Kg	27	--	--	0
4-Chlorophenylphenylether	μg/Kg	27	--	--	0
4-Nitroaniline	μg/Kg	27	--	--	0
4-Nitrophenol	μg/Kg	27	--	--	0
Benzoic Acid	μg/Kg	27	--	--	0
bis(2-Chloroethoxy)methane	μg/Kg	27	--	--	0

* Data qualifier included with concentration value

Table 4-14
Exposure Unit 10
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethyl)ether	µg/Kg	27	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	27	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	27	106 J	129 J	2
Butylbenzylphthalate	µg/Kg	27	--	--	0
Carbazole	µg/Kg	27	28.7 J	43.5 J	2
Dibenzofuran	µg/Kg	27	--	--	0
Diethylphthalate	µg/Kg	27	--	--	0
Dimethylphthalate	µg/Kg	27	--	--	0
Di-n-butylphthalate	µg/Kg	27	--	--	0
Di-n-octylphthalate	µg/Kg	27	--	--	0
Diphenylamine	µg/Kg	4	--	--	0
Hexachlorobenzene	µg/Kg	27	--	--	0
Hexachlorobutadiene	µg/Kg	27	--	--	0
Hexachlorocyclopentadiene	µg/Kg	27	--	--	0
Hexachloroethane	µg/Kg	27	--	--	0
Isophorone	µg/Kg	27	--	--	0
m,p-Cresols	µg/Kg	27	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	27	--	--	0
N-Nitrosodiphenylamine	µg/Kg	23	--	--	0
o-Cresol	µg/Kg	27	--	--	0
Pentachlorophenol	µg/Kg	27	--	--	0
Phenol	µg/Kg	27	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	26	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	26	--	--	0
1,1,2-Trichloroethane	µg/Kg	26	--	--	0
1,1-Dichloroethane	µg/Kg	26	--	--	0
1,1-Dichloroethene	µg/Kg	26	0.555 J	0.867 J	5
1,2-Dichloroethane	µg/Kg	26	--	--	0
1,2-Dichloropropane	µg/Kg	26	--	--	0
2-Butanone	µg/Kg	26	4.48 J	307	7
2-Hexanone	µg/Kg	26	--	--	0
4-Methyl-2-pentanone	µg/Kg	26	--	--	0
Acetone	µg/Kg	26	7.3	302	7
Benzene	µg/Kg	26	--	--	0
Bromodichloromethane	µg/Kg	26	--	--	0
Bromoform	µg/Kg	26	--	--	0
Bromomethane	µg/Kg	26	--	--	0
Carbon disulfide	µg/Kg	26	--	--	0
Carbon tetrachloride	µg/Kg	26	--	--	0
Chlorobenzene	µg/Kg	26	--	--	0
Chloroethane	µg/Kg	26	--	--	0
Chloroform	µg/Kg	26	--	--	0
Chloromethane	µg/Kg	26	--	--	0

* Data qualifier included with concentration value

Table 4-14
Exposure Unit 10
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
cis-1,3-Dichloropropene	μg/Kg	26	--	--	0
Dibromochloromethane	μg/Kg	26	--	--	0
Ethylbenzene	μg/Kg	26	--	--	0
Methylene chloride	μg/Kg	26	--	--	0
Styrene	μg/Kg	26	--	--	0
Tetrachloroethene	μg/Kg	26	--	--	0
Toluene	μg/Kg	26	0.465 J	0.589 J	3
trans-1,3-Dichloropropene	μg/Kg	26	--	--	0
Trichloroethene	μg/Kg	26	--	--	0
Vinyl chloride	μg/Kg	26	--	--	0
Xylenes (total)	μg/Kg	26	--	--	0

* Data qualifier included with concentration value

Table 4-15
Exposure Unit 11
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	16	11500	22900	16
Antimony	mg/Kg	16	0.495 B	2.3	5
Arsenic	mg/Kg	16	1.6 E	4.34	16
Barium	mg/Kg	16	126	223 N*	16
Beryllium	mg/Kg	16	0.57 B	1.8 E	16
Boron	mg/Kg	16	3.8 B	20 *	16
Cadmium	mg/Kg	16	0.183 B	0.95	3
Calcium	mg/Kg	16	10000	64500	16
Chromium	mg/Kg	16	15.2	62.1	16
Cobalt	mg/Kg	16	7.2 E	13.7	16
Copper	mg/Kg	16	23.7 N	54 E*	16
Iron	mg/Kg	16	19600	32900	16
Lead	mg/Kg	16	6.2	16.5	16
Lithium	mg/Kg	16	17.5 E	38.9 E	16
Magnesium	mg/Kg	16	5230	13600 *	16
Manganese	mg/Kg	16	256	2020 E*	16
Mercury	mg/Kg	16	0.008 B	1.1	16
Nickel	mg/Kg	16	19 N*	30.6	16
Potassium	mg/Kg	16	1130 N	2880	16
Selenium	mg/Kg	16	0.353 B	2.3	16
Silver	mg/Kg	16	0.033 B	0.1 B	14
Sodium	mg/Kg	16	74.2 E	309 *	16
Thallium	mg/Kg	16	0.07 B	0.165	16
Vanadium	mg/Kg	16	20.9	46.8	16
Zinc	mg/Kg	16	41.9 N	80	16
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	5	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	5	--	--	0
2,4-Dinitrotoluene	μg/Kg	17	--	--	0
2,6-Dinitrotoluene	μg/Kg	17	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	5	--	--	0
2-Nitrotoluene	μg/Kg	5	--	--	0
3-Dinitrobenzene	μg/Kg	5	--	--	0
3-Nitrotoluene	μg/Kg	5	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	5	--	--	0
4-Nitrotoluene	μg/Kg	5	--	--	0
HMX	μg/Kg	5	--	--	0
Nitrobenzene	μg/Kg	17	--	--	0
RDX	μg/Kg	5	--	--	0
Tetryl	μg/Kg	5	--	--	0
PAHs					
Acenaphthene	μg/Kg	17	34.9 J	296	3
Acenaphthylene	μg/Kg	17	7.5 J	7.5 J	1

* Data qualifier included with concentration value

Table 4-15
Exposure Unit 11
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	17	48.2	518	3
Benzo(a)anthracene	µg/Kg	17	1.08 JP	2430	8
Benzo(a)pyrene	µg/Kg	17	2.48	2560	8
Benzo(b)fluoranthene	µg/Kg	17	3.47	2740	10
Benzo(g,h,i)perylene	µg/Kg	17	2.52	1410	7
Benzo(k)fluoranthene	µg/Kg	17	5.87	2940	4
Chrysene	µg/Kg	17	1.49 J	2980	10
Dibenzo(a,h)anthracene	µg/Kg	17	209	209	1
Fluoranthene	µg/Kg	17	2.64	7210 D	10
Fluorene	µg/Kg	17	22.2 J	263	3
Indeno(1,2,3-cd)pyrene	µg/Kg	17	268	1330	3
Naphthalene	µg/Kg	17	3.44 J	336	3
Phenanthrene	µg/Kg	17	1.89 J	4360	10
Pyrene	µg/Kg	17	1.68 J	6280 D	11
PCBs					
Aroclor-1016	µg/Kg	13	--	--	0
Aroclor-1221	µg/Kg	13	--	--	0
Aroclor-1232	µg/Kg	13	--	--	0
Aroclor-1242	µg/Kg	13	4.8	6.7	2
Aroclor-1248	µg/Kg	13	--	--	0
Aroclor-1254	µg/Kg	13	2.6 J	3.8	2
Aroclor-1260	µg/Kg	13	2.2 J	2.2 J	1
Pesticides					
4,4'-DDD	µg/Kg	14	--	--	0
4,4'-DDE	µg/Kg	14	0.335 J	2.9 J	5
4,4'-DDT	µg/Kg	14	1.19 J	2.47	3
Aldrin	µg/Kg	14	--	--	0
alpha-BHC	µg/Kg	14	--	--	0
alpha-Chlordane	µg/Kg	14	--	--	0
beta-BHC	µg/Kg	14	--	--	0
delta-BHC	µg/Kg	14	--	--	0
Dieldrin	µg/Kg	14	--	--	0
Endosulfan I	µg/Kg	14	--	--	0
Endosulfan II	µg/Kg	14	--	--	0
Endosulfan sulfate	µg/Kg	14	--	--	0
Endrin	µg/Kg	14	--	--	0
Endrin aldehyde	µg/Kg	14	--	--	0
Endrin ketone	µg/Kg	14	--	--	0
gamma-BHC (Lindane)	µg/Kg	14	--	--	0
gamma-Chlordane	µg/Kg	14	--	--	0
Heptachlor	µg/Kg	14	1.7	1.7	1
Heptachlor epoxide	µg/Kg	14	--	--	0
Methoxychlor	µg/Kg	14	--	--	0
Toxaphene	µg/Kg	14	--	--	0

* Data qualifier included with concentration value

Table 4-15
Exposure Unit 11
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	40	0.629	132	6
Alpha	pCi/g	17	8.16	19000	17
Americium-241	pCi/g	40	--	--	0
Beta	pCi/g	17	20.1	15100	17
Cesium-137	pCi/g	41	0.0249	0.688	23
Cobalt-60	pCi/g	40	--	--	0
Plutonium-238	pCi/g	1	--	--	0
Plutonium-239/240	pCi/g	1	0.129	0.129	1
Potassium-40	pCi/g	21	5.23	24.6	20
Protactinium-231	pCi/g	40	127	127	1
Radium-226	pCi/g	44	0.379	386	43
Radium-228	pCi/g	40	0.233	1.49	37
Thorium-228	pCi/g	44	0.287	1.74	41
Thorium-230	pCi/g	44	1.05	304	41
Thorium-232	pCi/g	44	0.14	1.54	41
Total Uranium	μg/g	44	0.846	2860	44
Uranium-234	pCi/g	44	0.396	8340	42
Uranium-235	pCi/g	44	0.0745	886	18
Uranium-238	pCi/g	44	0.622 J	8830	42
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	17	--	--	0
1,2-Dichlorobenzene	μg/Kg	17	--	--	0
1,3-Dichlorobenzene	μg/Kg	17	--	--	0
1,4-Dichlorobenzene	μg/Kg	17	--	--	0
2,4,5-Trichlorophenol	μg/Kg	17	--	--	0
2,4,6-Trichlorophenol	μg/Kg	17	--	--	0
2,4-Dichlorophenol	μg/Kg	17	--	--	0
2,4-Dimethylphenol	μg/Kg	17	--	--	0
2,4-Dinitrophenol	μg/Kg	17	--	--	0
2-Chloronaphthalene	μg/Kg	17	--	--	0
2-Chlorophenol	μg/Kg	17	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	17	--	--	0
2-Methylnaphthalene	μg/Kg	17	53.8	449	2
2-Nitroaniline	μg/Kg	17	--	--	0
2-Nitrophenol	μg/Kg	17	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	17	--	--	0
3-Nitroaniline	μg/Kg	17	--	--	0
4-Bromophenylphenylether	μg/Kg	17	--	--	0
4-Chloro-3-methylphenol	μg/Kg	17	--	--	0
4-Chloroaniline	μg/Kg	17	--	--	0
4-Chlorophenylphenylether	μg/Kg	17	--	--	0
4-Nitroaniline	μg/Kg	17	--	--	0
4-Nitrophenol	μg/Kg	17	--	--	0

* Data qualifier included with concentration value

Table 4-15
Exposure Unit 11
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Benzoic Acid	µg/Kg	15	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	17	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	17	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	17	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	17	62.9	128 J	4
Butylbenzylphthalate	µg/Kg	17	17.7 J	17.7 J	1
Carbazole	µg/Kg	17	45 J	334 J	3
Dibenzofuran	µg/Kg	17	30.3 J	277 J	2
Diethylphthalate	µg/Kg	17	31.6 J	31.6 J	1
Dimethylphthalate	µg/Kg	17	--	--	0
Di-n-butylphthalate	µg/Kg	17	--	--	0
Di-n-octylphthalate	µg/Kg	17	--	--	0
Diphenylamine	µg/Kg	7	--	--	0
Hexachlorobenzene	µg/Kg	17	--	--	0
Hexachlorobutadiene	µg/Kg	17	--	--	0
Hexachlorocyclopentadiene	µg/Kg	17	--	--	0
Hexachloroethane	µg/Kg	17	--	--	0
Isophorone	µg/Kg	17	--	--	0
m,p-Cresols	µg/Kg	17	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	17	--	--	0
N-Nitrosodiphenylamine	µg/Kg	10	--	--	0
o-Cresol	µg/Kg	17	--	--	0
Pentachlorophenol	µg/Kg	17	--	--	0
Phenol	µg/Kg	17	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	13	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	13	--	--	0
1,1,2-Trichloroethane	µg/Kg	13	--	--	0
1,1-Dichloroethane	µg/Kg	13	--	--	0
1,1-Dichloroethene	µg/Kg	13	--	--	0
1,2-Dichloroethane	µg/Kg	13	--	--	0
1,2-Dichloropropane	µg/Kg	13	--	--	0
2-Butanone	µg/Kg	13	6.19	45.9	5
2-Hexanone	µg/Kg	13	--	--	0
4-Methyl-2-pentanone	µg/Kg	13	--	--	0
Acetone	µg/Kg	13	3.93 J	29.6	5
Benzene	µg/Kg	13	2.3	2.6	2
Bromodichloromethane	µg/Kg	13	--	--	0
Bromoform	µg/Kg	13	--	--	0
Bromomethane	µg/Kg	13	--	--	0
Carbon disulfide	µg/Kg	13	--	--	0
Carbon tetrachloride	µg/Kg	13	--	--	0
Chlorobenzene	µg/Kg	13	--	--	0
Chloroethane	µg/Kg	13	--	--	0

* Data qualifier included with concentration value

Table 4-15
Exposure Unit 11
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chloroform	μg/Kg	13	--	--	0
Chloromethane	μg/Kg	13	--	--	0
cis-1,3-Dichloropropene	μg/Kg	13	--	--	0
Dibromochloromethane	μg/Kg	13	--	--	0
Ethylbenzene	μg/Kg	13	--	--	0
Methylene chloride	μg/Kg	13	--	--	0
Styrene	μg/Kg	13	--	--	0
Tetrachloroethene	μg/Kg	13	--	--	0
Toluene	μg/Kg	13	0.405 J	1.9	4
trans-1,3-Dichloropropene	μg/Kg	13	--	--	0
Trichloroethene	μg/Kg	13	--	--	0
Vinyl chloride	μg/Kg	13	--	--	0
Xylenes (total)	μg/Kg	13	1.1 J	1.1 J	1

* Data qualifier included with concentration value

Table 4-16
Exposure Unit 12
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	8	6510	23200	8
Antimony	mg/Kg	8	0.645 BN	0.645 BN	1
Arsenic	mg/Kg	8	2.08	51.8 N	8
Barium	mg/Kg	8	70.5 *	301 N*	8
Beryllium	mg/Kg	8	0.67 E	1.79	8
Boron	mg/Kg	8	6.9	37.6	8
Cadmium	mg/Kg	8	0.06 B	1.29	6
Calcium	mg/Kg	8	7780	42500 E*	8
Chromium	mg/Kg	8	11.7	28.1	8
Cobalt	mg/Kg	8	7.45	14.3	8
Copper	mg/Kg	8	21	99.8	8
Iron	mg/Kg	8	14300	39000	8
Lead	mg/Kg	8	9.08	25.1	8
Lithium	mg/Kg	8	10.3 EN	32.1 E	8
Magnesium	mg/Kg	8	3160	9960 *	8
Manganese	mg/Kg	8	153	1150	8
Mercury	mg/Kg	8	0.029	0.1	8
Nickel	mg/Kg	8	19.6	33.5	8
Potassium	mg/Kg	8	1110	2740 N	8
Selenium	mg/Kg	8	0.666 B	3.13 B	8
Silver	mg/Kg	8	0.07 B	0.361 BN	7
Sodium	mg/Kg	8	74.8	285 *	8
Thallium	mg/Kg	8	0.09 B	0.39	8
Vanadium	mg/Kg	8	17.7	45.8 N	8
Zinc	mg/Kg	8	46.7	112	8
Nitroaromatics					
2,4-Dinitrotoluene	μg/Kg	9	--	--	0
2,6-Dinitrotoluene	μg/Kg	9	--	--	0
Nitrobenzene	μg/Kg	9	--	--	0
PAHs					
Acenaphthene	μg/Kg	9	--	--	0
Acenaphthylene	μg/Kg	9	--	--	0
Anthracene	μg/Kg	9	43.5 J	43.5 J	1
Benzo(a)anthracene	μg/Kg	9	0.967 JP	945 J	5
Benzo(a)pyrene	μg/Kg	9	36.2	1340 J	4
Benzo(b)fluoranthene	μg/Kg	9	72.5 J	3550	4
Benzo(g,h,i)perylene	μg/Kg	9	18.9	1070 J	3
Benzo(k)fluoranthene	μg/Kg	9	18	1250 J	4
Chrysene	μg/Kg	9	1.51 J	1790	5
Dibenzo(a,h)anthracene	μg/Kg	9	--	--	0
Fluoranthene	μg/Kg	9	2.45	1120 J	5
Fluorene	μg/Kg	9	--	--	0
Indeno(1,2,3-cd)pyrene	μg/Kg	9	965 J	1600 J	2

* Data qualifier included with concentration value

Table 4-16
Exposure Unit 12
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Naphthalene	µg/Kg	9	3.03 JP	2170	3
Phenanthrene	µg/Kg	9	1.67 J	1050 J	5
Pyrene	µg/Kg	9	1.26 J	252 J	5
PCBs					
Aroclor-1016	µg/Kg	2	--	--	0
Aroclor-1221	µg/Kg	2	--	--	0
Aroclor-1232	µg/Kg	2	--	--	0
Aroclor-1242	µg/Kg	2	--	--	0
Aroclor-1248	µg/Kg	2	--	--	0
Aroclor-1254	µg/Kg	2	--	--	0
Aroclor-1260	µg/Kg	2	1.4 J	4.8 J	2
Pesticides					
4,4'-DDD	µg/Kg	2	--	--	0
4,4'-DDE	µg/Kg	2	1.21 J	1.46 J	2
4,4'-DDT	µg/Kg	2	2.28	2.84	2
Aldrin	µg/Kg	2	--	--	0
alpha-BHC	µg/Kg	2	--	--	0
alpha-Chlordane	µg/Kg	2	--	--	0
beta-BHC	µg/Kg	2	--	--	0
delta-BHC	µg/Kg	2	--	--	0
Dieldrin	µg/Kg	2	--	--	0
Endosulfan I	µg/Kg	2	--	--	0
Endosulfan II	µg/Kg	2	--	--	0
Endosulfan sulfate	µg/Kg	2	--	--	0
Endrin	µg/Kg	2	--	--	0
Endrin aldehyde	µg/Kg	2	--	--	0
Endrin ketone	µg/Kg	2	--	--	0
gamma-BHC (Lindane)	µg/Kg	2	--	--	0
gamma-Chlordane	µg/Kg	2	--	--	0
Heptachlor	µg/Kg	2	--	--	0
Heptachlor epoxide	µg/Kg	2	--	--	0
Methoxychlor	µg/Kg	2	--	--	0
Toxaphene	µg/Kg	2	--	--	0
Radionuclides					
Actinium-227	pCi/g	18	2.71	2.72	2
Alpha	pCi/g	10	8.21	284	10
Americium-241	pCi/g	18	--	--	0
Beta	pCi/g	10	18.1	153	10
Cesium-137	pCi/g	20	0.0379	0.739	19
Cobalt-60	pCi/g	18	--	--	0
Potassium-40	pCi/g	6	9.91	21.8	5
Protactinium-231	pCi/g	18	--	--	0
Radium-226	pCi/g	23	0.807	29.6	23
Radium-228	pCi/g	18	0.666	1.27	17

* Data qualifier included with concentration value

Table 4-16
Exposure Unit 12
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Thorium-228	pCi/g	23	0.0481	2.08 J	23
Thorium-230	pCi/g	23	0.0906	69.6	23
Thorium-232	pCi/g	23	0.036	1.46	23
Total Uranium	μg/g	23	0.111	49.4	21
Uranium-234	pCi/g	23	0.0527	12.1	23
Uranium-235	pCi/g	23	0.0487 J	0.409	5
Uranium-238	pCi/g	23	0.0416	12.1	23
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	9	--	--	0
1,2-Dichlorobenzene	μg/Kg	9	--	--	0
1,3-Dichlorobenzene	μg/Kg	9	--	--	0
1,4-Dichlorobenzene	μg/Kg	9	--	--	0
2,4,5-Trichlorophenol	μg/Kg	9	--	--	0
2,4,6-Trichlorophenol	μg/Kg	9	--	--	0
2,4-Dichlorophenol	μg/Kg	9	--	--	0
2,4-Dimethylphenol	μg/Kg	9	--	--	0
2,4-Dinitrophenol	μg/Kg	9	--	--	0
2-Chloronaphthalene	μg/Kg	9	--	--	0
2-Chlorophenol	μg/Kg	9	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	9	--	--	0
2-Methylnaphthalene	μg/Kg	9	2050	2950	2
2-Nitroaniline	μg/Kg	9	--	--	0
2-Nitrophenol	μg/Kg	9	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	9	--	--	0
3-Nitroaniline	μg/Kg	9	--	--	0
4-Bromophenylphenylether	μg/Kg	9	--	--	0
4-Chloro-3-methylphenol	μg/Kg	9	--	--	0
4-Chloroaniline	μg/Kg	9	--	--	0
4-Chlorophenylphenylether	μg/Kg	9	--	--	0
4-Nitroaniline	μg/Kg	9	--	--	0
4-Nitrophenol	μg/Kg	9	--	--	0
Benzoic Acid	μg/Kg	9	602 J	602 J	1
bis(2-Chloroethoxy)methane	μg/Kg	9	--	--	0
bis(2-Chloroethyl)ether	μg/Kg	9	--	--	0
bis(2-Chloroisopropyl)ether	μg/Kg	9	--	--	0
bis(2-Ethylhexyl)phthalate	μg/Kg	9	203 J	738	2
Butylbenzylphthalate	μg/Kg	9	--	--	0
Carbazole	μg/Kg	9	--	--	0
Dibenzofuran	μg/Kg	9	612	612	1
Diethylphthalate	μg/Kg	9	--	--	0
Dimethylphthalate	μg/Kg	9	--	--	0
Di-n-butylphthalate	μg/Kg	9	--	--	0
Di-n-octylphthalate	μg/Kg	9	--	--	0
Diphenylamine	μg/Kg	7	--	--	0

* Data qualifier included with concentration value

Table 4-16
Exposure Unit 12
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Hexachlorobenzene	µg/Kg	9	--	--	0
Hexachlorobutadiene	µg/Kg	9	--	--	0
Hexachlorocyclopentadiene	µg/Kg	9	--	--	0
Hexachloroethane	µg/Kg	9	--	--	0
Isophorone	µg/Kg	9	--	--	0
m,p-Cresols	µg/Kg	9	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	9	--	--	0
N-Nitrosodiphenylamine	µg/Kg	2	--	--	0
o-Cresol	µg/Kg	9	--	--	0
Pentachlorophenol	µg/Kg	9	--	--	0
Phenol	µg/Kg	9	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	4	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	4	--	--	0
1,1,2-Trichloroethane	µg/Kg	4	--	--	0
1,1-Dichloroethane	µg/Kg	4	--	--	0
1,1-Dichloroethene	µg/Kg	4	--	--	0
1,2-Dichloroethane	µg/Kg	4	--	--	0
1,2-Dichloropropane	µg/Kg	4	--	--	0
2-Butanone	µg/Kg	4	5.4 J	5.4 J	1
2-Hexanone	µg/Kg	4	--	--	0
4-Methyl-2-pentanone	µg/Kg	4	--	--	0
Acetone	µg/Kg	4	6.7	6.7	1
Benzene	µg/Kg	4	--	--	0
Bromodichloromethane	µg/Kg	4	--	--	0
Bromoform	µg/Kg	4	--	--	0
Bromomethane	µg/Kg	4	--	--	0
Carbon disulfide	µg/Kg	4	--	--	0
Carbon tetrachloride	µg/Kg	4	--	--	0
Chlorobenzene	µg/Kg	4	--	--	0
Chloroethane	µg/Kg	4	--	--	0
Chloroform	µg/Kg	4	--	--	0
Chloromethane	µg/Kg	4	--	--	0
cis-1,3-Dichloropropene	µg/Kg	4	--	--	0
Dibromochloromethane	µg/Kg	4	--	--	0
Ethylbenzene	µg/Kg	4	--	--	0
Methylene chloride	µg/Kg	4	18.2	18.5	2
Styrene	µg/Kg	4	--	--	0
Tetrachloroethene	µg/Kg	4	--	--	0
Toluene	µg/Kg	4	--	--	0
trans-1,3-Dichloropropene	µg/Kg	4	--	--	0
Trichloroethene	µg/Kg	4	--	--	0
Vinyl chloride	µg/Kg	4	--	--	0
Xylenes (total)	µg/Kg	4	--	--	0

* Data qualifier included with concentration value

Table 4-17
Exposure Unit 13
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	10	8580	18800	10
Antimony	mg/Kg	10	0.34 BN	2.2 N	4
Arsenic	mg/Kg	10	2.9 EN	11.2	10
Barium	mg/Kg	10	95.1	239 *	10
Beryllium	mg/Kg	10	0.43 B	0.869	10
Boron	mg/Kg	10	5.3 B	57.6	10
Cadmium	mg/Kg	10	0.088 B	2.04 E	8
Calcium	mg/Kg	10	20100	124000	10
Chromium	mg/Kg	10	15.5	69.1	10
Cobalt	mg/Kg	10	5.24	11.2	10
Copper	mg/Kg	10	25.2	1050	10
Iron	mg/Kg	10	12500	33800	10
Lead	mg/Kg	10	6.82	142	10
Lithium	mg/Kg	10	6.8	29	10
Magnesium	mg/Kg	10	6220	43700	10
Manganese	mg/Kg	10	437	1520 *	10
Mercury	mg/Kg	10	0.015	0.4	10
Nickel	mg/Kg	10	18.5 N	348	10
Potassium	mg/Kg	10	1330	6510	10
Selenium	mg/Kg	10	0.497 B	1.13	10
Silver	mg/Kg	10	0.05 B	0.228	9
Sodium	mg/Kg	10	78.7 E	1660	10
Thallium	mg/Kg	10	0.099 B	0.189 E	10
Vanadium	mg/Kg	10	19.4	40.5	10
Zinc	mg/Kg	10	43.4 N	2450	10
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/Kg	5	--	--	0
2,4,6-Trinitrotoluene	µg/Kg	5	--	--	0
2,4-Dinitrotoluene	µg/Kg	16	108	108	1
2,6-Dinitrotoluene	µg/Kg	16	--	--	0
2-Amino-4,6-dinitrotoluene	µg/Kg	5	--	--	0
2-Nitrotoluene	µg/Kg	5	--	--	0
3-Dinitrobenzene	µg/Kg	5	--	--	0
3-Nitrotoluene	µg/Kg	5	--	--	0
4-Amino-2,6-dinitrotoluene	µg/Kg	5	--	--	0
4-Nitrotoluene	µg/Kg	5	--	--	0
HMX	µg/Kg	5	--	--	0
Nitrobenzene	µg/Kg	16	--	--	0
RDX	µg/Kg	5	--	--	0
Tetryl	µg/Kg	5	--	--	0
PAHs					
Acenaphthene	µg/Kg	15	40.7 J	40.7 J	1
Acenaphthylene	µg/Kg	16	--	--	0

* Data qualifier included with concentration value

Table 4-17
Exposure Unit 13
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	16	22.6 J	60.4 J	3
Benzo(a)anthracene	µg/Kg	16	17.6 P	323 J	6
Benzo(a)pyrene	µg/Kg	16	19.6	383 J	6
Benzo(b)fluoranthene	µg/Kg	16	27.1 J	446	7
Benzo(g,h,i)perylene	µg/Kg	16	11.8	215 J	4
Benzo(k)fluoranthene	µg/Kg	16	23.1 J	247 J	5
Chrysene	µg/Kg	16	27.7 J	440	8
Dibenzo(a,h)anthracene	µg/Kg	16	--	--	0
Fluoranthene	µg/Kg	16	22.3 J	892	11
Fluorene	µg/Kg	16	35.6 J	35.6 J	1
Indeno(1,2,3-cd)pyrene	µg/Kg	16	30.6 J	188 J	3
Naphthalene	µg/Kg	16	11.2 J	483	4
Phenanthrene	µg/Kg	16	22.2 J	642	8
Pyrene	µg/Kg	15	24.4 J	925	9
PCBs					
Aroclor-1016	µg/Kg	7	--	--	0
Aroclor-1221	µg/Kg	7	--	--	0
Aroclor-1232	µg/Kg	7	--	--	0
Aroclor-1242	µg/Kg	7	--	--	0
Aroclor-1248	µg/Kg	7	--	--	0
Aroclor-1254	µg/Kg	7	77.7	208	2
Aroclor-1260	µg/Kg	7	14.9	84.5 P	2
Pesticides					
4,4'-DDD	µg/Kg	7	--	--	0
4,4'-DDE	µg/Kg	7	0.43 J	0.43 J	1
4,4'-DDT	µg/Kg	7	2.14	2.14	1
Aldrin	µg/Kg	7	--	--	0
alpha-BHC	µg/Kg	7	--	--	0
alpha-Chlordane	µg/Kg	7	--	--	0
beta-BHC	µg/Kg	7	--	--	0
delta-BHC	µg/Kg	7	--	--	0
Dieldrin	µg/Kg	7	--	--	0
Endosulfan I	µg/Kg	7	--	--	0
Endosulfan II	µg/Kg	7	--	--	0
Endosulfan sulfate	µg/Kg	7	--	--	0
Endrin	µg/Kg	7	--	--	0
Endrin aldehyde	µg/Kg	7	--	--	0
Endrin ketone	µg/Kg	7	--	--	0
gamma-BHC (Lindane)	µg/Kg	7	--	--	0
gamma-Chlordane	µg/Kg	7	--	--	0
Heptachlor	µg/Kg	7	--	--	0
Heptachlor epoxide	µg/Kg	7	--	--	0
Methoxychlor	µg/Kg	7	--	--	0
Toxaphene	µg/Kg	7	--	--	0

* Data qualifier included with concentration value

Table 4-17
Exposure Unit 13
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	7	1.95	9.3	2
Alpha	pCi/g	15	10.9	3030	15
Americium-241	pCi/g	7	--	--	0
Beta	pCi/g	15	19.9	1180	15
Cesium-137	pCi/g	7	0.0467	0.148	3
Cobalt-60	pCi/g	7	--	--	0
Potassium-40	pCi/g	1	20	20	1
Protactinium-231	pCi/g	7	--	--	0
Radium-226	pCi/g	19	0.511	1140	19
Radium-228	pCi/g	7	0.462	0.951	6
Thorium-228	pCi/g	19	0.553 J	1.53	19
Thorium-230	pCi/g	19	1.39	978	19
Thorium-232	pCi/g	19	0.567 J	2.07	19
Total Uranium	μg/g	19	1.2	44.8	18
Uranium-234	pCi/g	19	0.519 J	29.7	19
Uranium-235	pCi/g	19	0.17 J	1.2	3
Uranium-238	pCi/g	19	0.62	26.2	19
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	16	--	--	0
1,2-Dichlorobenzene	μg/Kg	16	--	--	0
1,3-Dichlorobenzene	μg/Kg	16	--	--	0
1,4-Dichlorobenzene	μg/Kg	16	--	--	0
2,4,5-Trichlorophenol	μg/Kg	16	--	--	0
2,4,6-Trichlorophenol	μg/Kg	16	--	--	0
2,4-Dichlorophenol	μg/Kg	16	--	--	0
2,4-Dimethylphenol	μg/Kg	16	--	--	0
2,4-Dinitrophenol	μg/Kg	16	--	--	0
2-Chloronaphthalene	μg/Kg	16	--	--	0
2-Chlorophenol	μg/Kg	16	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	16	--	--	0
2-Methylnaphthalene	μg/Kg	16	25.4 J	819	4
2-Nitroaniline	μg/Kg	16	--	--	0
2-Nitrophenol	μg/Kg	16	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	16	--	--	0
3-Nitroaniline	μg/Kg	16	--	--	0
4-Bromophenylphenylether	μg/Kg	16	--	--	0
4-Chloro-3-methylphenol	μg/Kg	16	--	--	0
4-Chloroaniline	μg/Kg	16	--	--	0
4-Chlorophenylphenylether	μg/Kg	16	--	--	0
4-Nitroaniline	μg/Kg	16	--	--	0
4-Nitrophenol	μg/Kg	16	--	--	0
Benzoic Acid	μg/Kg	16	--	--	0
Benzyl Alcohol	μg/Kg	1	--	--	0

* Data qualifier included with concentration value

Table 4-17
Exposure Unit 13
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethoxy)methane	µg/Kg	16	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	16	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	16	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	16	43 J	1380	6
Butylbenzylphthalate	µg/Kg	16	--	--	0
Carbazole	µg/Kg	16	--	--	0
Dibenzofuran	µg/Kg	16	--	--	0
Diethylphthalate	µg/Kg	16	--	--	0
Dimethylphthalate	µg/Kg	16	--	--	0
Di-n-butylphthalate	µg/Kg	16	--	--	0
Di-n-octylphthalate	µg/Kg	16	--	--	0
Diphenylamine	µg/Kg	14	--	--	0
Hexachlorobenzene	µg/Kg	16	--	--	0
Hexachlorobutadiene	µg/Kg	16	--	--	0
Hexachlorocyclopentadiene	µg/Kg	16	--	--	0
Hexachloroethane	µg/Kg	16	--	--	0
Isophorone	µg/Kg	16	--	--	0
m,p-Cresols	µg/Kg	16	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	16	--	--	0
N-Nitrosodiphenylamine	µg/Kg	2	--	--	0
o-Cresol	µg/Kg	16	--	--	0
Pentachlorophenol	µg/Kg	16	--	--	0
Phenol	µg/Kg	16	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	14	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	14	--	--	0
1,1,2-Trichloroethane	µg/Kg	14	--	--	0
1,1-Dichloroethane	µg/Kg	14	--	--	0
1,1-Dichloroethene	µg/Kg	14	--	--	0
1,2-Dichloroethane	µg/Kg	14	--	--	0
1,2-Dichloropropane	µg/Kg	14	--	--	0
2-Butanone	µg/Kg	14	--	--	0
2-Hexanone	µg/Kg	14	--	--	0
4-Methyl-2-pentanone	µg/Kg	14	--	--	0
Acetone	µg/Kg	14	9.8	9.8	1
Benzene	µg/Kg	14	--	--	0
Bromodichloromethane	µg/Kg	14	--	--	0
Bromoform	µg/Kg	14	--	--	0
Bromomethane	µg/Kg	14	--	--	0
Carbon disulfide	µg/Kg	14	--	--	0
Carbon tetrachloride	µg/Kg	14	--	--	0
Chlorobenzene	µg/Kg	14	--	--	0
Chloroethane	µg/Kg	14	--	--	0
Chloroform	µg/Kg	14	--	--	0

* Data qualifier included with concentration value

Table 4-17
Exposure Unit 13
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chloromethane	µg/Kg	14	--	--	0
cis-1,3-Dichloropropene	µg/Kg	14	--	--	0
Dibromochloromethane	µg/Kg	14	--	--	0
Ethylbenzene	µg/Kg	14	--	--	0
Methylene chloride	µg/Kg	14	1.3 J	15.2	3
Styrene	µg/Kg	14	--	--	0
Tetrachloroethene	µg/Kg	14	2.7	14.3	2
Toluene	µg/Kg	14	0.39 J	3.7	2
trans-1,3-Dichloropropene	µg/Kg	14	--	--	0
Trichloroethene	µg/Kg	14	1 J	1 J	1
Vinyl chloride	µg/Kg	14	--	--	0
Xylenes (total)	µg/Kg	14	--	--	0

* Data qualifier included with concentration value

Table 4-18
Exposure Unit 14
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	8	6660	147000	8
Antimony	mg/Kg	8	0.519 BN	1.38 N	2
Arsenic	mg/Kg	8	1.42	9.32 N	8
Barium	mg/Kg	8	74 N	2210	8
Beryllium	mg/Kg	8	0.667	28	8
Boron	mg/Kg	8	4.76 B	361	8
Cadmium	mg/Kg	8	0.126 B	0.588 B	7
Calcium	mg/Kg	8	4040 *	240000	8
Chromium	mg/Kg	8	11.2	37.9	8
Cobalt	mg/Kg	8	4.82	10.7	8
Copper	mg/Kg	8	25.1	58.3	8
Iron	mg/Kg	8	10900	26100	8
Lead	mg/Kg	8	5.8 E	67.8	8
Lithium	mg/Kg	8	11.4 B	31.2	8
Magnesium	mg/Kg	8	3080	232000	8
Manganese	mg/Kg	8	90.4 *	4300	8
Mercury	mg/Kg	8	0.01 B	0.075	8
Nickel	mg/Kg	8	15.5	26.8	8
Potassium	mg/Kg	8	1030 N	12200	8
Selenium	mg/Kg	8	0.64 B	5.25	8
Silver	mg/Kg	8	0.05 B	0.404 BN	8
Sodium	mg/Kg	8	64.3 *	4690	8
Thallium	mg/Kg	8	0.032 B	0.262 B	8
Vanadium	mg/Kg	8	18.5	35.7	8
Zinc	mg/Kg	8	37.4	403	8
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	2	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	2	--	--	0
2,4-Dinitrotoluene	μg/Kg	7	--	--	0
2,6-Dinitrotoluene	μg/Kg	7	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	2	--	--	0
2-Nitrotoluene	μg/Kg	2	--	--	0
3-Dinitrobenzene	μg/Kg	2	--	--	0
3-Nitrotoluene	μg/Kg	2	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	2	--	--	0
4-Nitrotoluene	μg/Kg	2	--	--	0
HMX	μg/Kg	2	--	--	0
Nitrobenzene	μg/Kg	7	--	--	0
RDX	μg/Kg	2	--	--	0
Tetryl	μg/Kg	2	--	--	0
PAHs					
Acenaphthene	μg/Kg	7	--	--	0
Acenaphthylene	μg/Kg	7	--	--	0

* Data qualifier included with concentration value

Table 4-18
Exposure Unit 14
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	7	--	--	0
Benzo(a)anthracene	µg/Kg	7	--	--	0
Benzo(a)pyrene	µg/Kg	7	--	--	0
Benzo(b)fluoranthene	µg/Kg	7	--	--	0
Benzo(g,h,i)perylene	µg/Kg	7	--	--	0
Benzo(k)fluoranthene	µg/Kg	7	--	--	0
Chrysene	µg/Kg	7	--	--	0
Dibenzo(a,h)anthracene	µg/Kg	7	--	--	0
Fluoranthene	µg/Kg	7	23.3 J	23.3 J	1
Fluorene	µg/Kg	7	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	7	--	--	0
Naphthalene	µg/Kg	7	1410 J	1410 J	1
Phenanthrene	µg/Kg	7	--	--	0
Pyrene	µg/Kg	7	19.8 J	19.8 J	1
PCBs					
Aroclor-1016	µg/Kg	2	--	--	0
Aroclor-1221	µg/Kg	2	--	--	0
Aroclor-1232	µg/Kg	2	--	--	0
Aroclor-1242	µg/Kg	2	--	--	0
Aroclor-1248	µg/Kg	2	--	--	0
Aroclor-1254	µg/Kg	2	--	--	0
Aroclor-1260	µg/Kg	2	--	--	0
Pesticides					
4,4'-DDD	µg/Kg	2	--	--	0
4,4'-DDE	µg/Kg	2	--	--	0
4,4'-DDT	µg/Kg	2	--	--	0
Aldrin	µg/Kg	2	--	--	0
alpha-BHC	µg/Kg	2	--	--	0
alpha-Chlordane	µg/Kg	2	--	--	0
beta-BHC	µg/Kg	2	--	--	0
delta-BHC	µg/Kg	2	--	--	0
Dieldrin	µg/Kg	2	--	--	0
Endosulfan I	µg/Kg	2	--	--	0
Endosulfan II	µg/Kg	2	--	--	0
Endosulfan sulfate	µg/Kg	2	--	--	0
Endrin	µg/Kg	2	--	--	0
Endrin aldehyde	µg/Kg	2	--	--	0
Endrin ketone	µg/Kg	2	--	--	0
gamma-BHC (Lindane)	µg/Kg	2	--	--	0
gamma-Chlordane	µg/Kg	2	--	--	0
Heptachlor	µg/Kg	2	--	--	0
Heptachlor epoxide	µg/Kg	2	--	--	0
Methoxychlor	µg/Kg	2	--	--	0
Toxaphene	µg/Kg	2	--	--	0

* Data qualifier included with concentration value

Table 4-18
Exposure Unit 14
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	29	1 J	5.11	2
Alpha	pCi/g	4	9.8	22.1	4
Americium-241	pCi/g	29	--	--	0
Beta	pCi/g	4	20.1	25.8	4
Cesium-137	pCi/g	30	0.0291	1.27	17
Cobalt-60	pCi/g	29	--	--	0
Potassium-40	pCi/g	13	11.4 J	22.6	13
Protactinium-231	pCi/g	29	--	--	0
Radium-226	pCi/g	32	0.775	299	32
Radium-228	pCi/g	29	0.51	1.13	27
Thorium-228	pCi/g	32	0.79	1.7	32
Thorium-230	pCi/g	32	0.704 J	4.47	31
Thorium-232	pCi/g	32	0.627	1.29	32
Total Uranium	μg/g	32	1.86	9.96	32
Uranium-234	pCi/g	32	0.726	4.44	31
Uranium-235	pCi/g	32	0.0395	0.321	9
Uranium-238	pCi/g	32	0.754	3.82	31
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	7	--	--	0
1,2-Dichlorobenzene	μg/Kg	7	--	--	0
1,3-Dichlorobenzene	μg/Kg	7	--	--	0
1,4-Dichlorobenzene	μg/Kg	7	--	--	0
2,4,5-Trichlorophenol	μg/Kg	7	--	--	0
2,4,6-Trichlorophenol	μg/Kg	7	--	--	0
2,4-Dichlorophenol	μg/Kg	7	--	--	0
2,4-Dimethylphenol	μg/Kg	7	--	--	0
2,4-Dinitrophenol	μg/Kg	7	--	--	0
2-Chloronaphthalene	μg/Kg	7	--	--	0
2-Chlorophenol	μg/Kg	7	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	7	--	--	0
2-Methylnaphthalene	μg/Kg	7	2080	2080	1
2-Nitroaniline	μg/Kg	7	--	--	0
2-Nitrophenol	μg/Kg	7	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	7	--	--	0
3-Nitroaniline	μg/Kg	7	--	--	0
4-Bromophenylphenylether	μg/Kg	7	--	--	0
4-Chloro-3-methylphenol	μg/Kg	7	--	--	0
4-Chloroaniline	μg/Kg	7	--	--	0
4-Chlorophenylphenylether	μg/Kg	7	--	--	0
4-Nitroaniline	μg/Kg	7	--	--	0
4-Nitrophenol	μg/Kg	7	--	--	0
Benzoic Acid	μg/Kg	7	--	--	0
bis(2-Chloroethoxy)methane	μg/Kg	7	--	--	0

* Data qualifier included with concentration value

Table 4-18
Exposure Unit 14
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethyl)ether	μg/Kg	7	--	--	0
bis(2-Chloroisopropyl)ether	μg/Kg	7	--	--	0
bis(2-Ethylhexyl)phthalate	μg/Kg	7	2270	2270	1
Butylbenzylphthalate	μg/Kg	7	--	--	0
Carbazole	μg/Kg	7	--	--	0
Dibenzofuran	μg/Kg	7	--	--	0
Diethylphthalate	μg/Kg	7	--	--	0
Dimethylphthalate	μg/Kg	7	--	--	0
Di-n-butylphthalate	μg/Kg	7	--	--	0
Di-n-octylphthalate	μg/Kg	7	506	506	1
Diphenylamine	μg/Kg	7	--	--	0
Hexachlorobenzene	μg/Kg	7	--	--	0
Hexachlorobutadiene	μg/Kg	7	--	--	0
Hexachlorocyclopentadiene	μg/Kg	7	--	--	0
Hexachloroethane	μg/Kg	7	--	--	0
Isophorone	μg/Kg	7	--	--	0
m,p-Cresols	μg/Kg	7	--	--	0
N-Nitroso-di-n-propylamine	μg/Kg	7	--	--	0
o-Cresol	μg/Kg	7	--	--	0
Pentachlorophenol	μg/Kg	7	--	--	0
Phenol	μg/Kg	7	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	μg/Kg	2	--	--	0
1,1,2,2-Tetrachloroethane	μg/Kg	2	--	--	0
1,1,2-Trichloroethane	μg/Kg	2	--	--	0
1,1-Dichloroethane	μg/Kg	2	--	--	0
1,1-Dichloroethene	μg/Kg	2	--	--	0
1,2-Dichloroethane	μg/Kg	2	--	--	0
1,2-Dichloropropane	μg/Kg	2	--	--	0
2-Butanone	μg/Kg	2	--	--	0
2-Hexanone	μg/Kg	2	--	--	0
4-Methyl-2-pentanone	μg/Kg	2	--	--	0
Acetone	μg/Kg	2	--	--	0
Benzene	μg/Kg	2	--	--	0
Bromodichloromethane	μg/Kg	2	--	--	0
Bromoform	μg/Kg	2	--	--	0
Bromomethane	μg/Kg	2	--	--	0
Carbon disulfide	μg/Kg	2	--	--	0
Carbon tetrachloride	μg/Kg	2	--	--	0
Chlorobenzene	μg/Kg	2	--	--	0
Chloroethane	μg/Kg	2	--	--	0
Chloroform	μg/Kg	2	--	--	0
Chloromethane	μg/Kg	2	--	--	0
cis-1,3-Dichloropropene	μg/Kg	2	--	--	0

* Data qualifier included with concentration value

Table 4-18
Exposure Unit 14
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Dibromochloromethane	μg/Kg	2	--	--	0
Ethylbenzene	μg/Kg	2	--	--	0
Methylene chloride	μg/Kg	2	--	--	0
Styrene	μg/Kg	2	--	--	0
Tetrachloroethene	μg/Kg	2	--	--	0
Toluene	μg/Kg	2	--	--	0
trans-1,3-Dichloropropene	μg/Kg	2	--	--	0
Trichloroethene	μg/Kg	2	--	--	0
Vinyl chloride	μg/Kg	2	--	--	0
Xylenes (total)	μg/Kg	2	--	--	0

* Data qualifier included with concentration value

Table 4-19
Exposure Unit 17
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	185	4700 *	147000	185
Antimony	mg/Kg	185	0.25 BN	3.92 J	55
Arsenic	mg/Kg	185	1.2	51.8 N	185
Barium	mg/Kg	185	53.1 *	2670 N*	185
Beryllium	mg/Kg	185	0.26 BE	28	185
Boron	mg/Kg	185	0.91 B	361	185
Cadmium	mg/Kg	185	0.03 B	2.04 E	103
Calcium	mg/Kg	185	1580	240000	185
Chromium	mg/Kg	185	2.9	196	185
Cobalt	mg/Kg	185	0.24 BE	19.7	185
Copper	mg/Kg	185	3.1	1050	185
Iron	mg/Kg	185	2260	154000 J	185
Lead	mg/Kg	185	3.5	686	185
Lithium	mg/Kg	183	6.8	103	183
Magnesium	mg/Kg	185	1310	232000	185
Manganese	mg/Kg	185	90.4 *	5010 *	185
Mercury	mg/Kg	185	0.003 B	1.5 N	180
Nickel	mg/Kg	185	0.65	348	185
Potassium	mg/Kg	185	440	12200	185
Selenium	mg/Kg	184	0.09 BN	5.8 B	171
Silver	mg/Kg	185	0.03 B	0.75 N	176
Sodium	mg/Kg	185	33	4690	185
Thallium	mg/Kg	185	0.032 B	0.39	173
Vanadium	mg/Kg	185	5	52	185
Zinc	mg/Kg	185	6.7 E	2450	185
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	54	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	54	--	--	0
2,4-Dinitrotoluene	μg/Kg	210	64.1 J	108	2
2,6-Dinitrotoluene	μg/Kg	210	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	54	--	--	0
2-Nitrotoluene	μg/Kg	54	109	109	1
3-Dinitrobenzene	μg/Kg	54	--	--	0
3-Nitrotoluene	μg/Kg	54	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	54	--	--	0
4-Nitrotoluene	μg/Kg	54	--	--	0
HMX	μg/Kg	54	--	--	0
Nitrobenzene	μg/Kg	210	--	--	0
RDX	μg/Kg	54	--	--	0
Tetryl	μg/Kg	54	--	--	0
PAHs					
Acenaphthene	μg/Kg	206	10.9 J	13300 J	13
Acenaphthylene	μg/Kg	208	7.5 J	151 J	8

* Data qualifier included with concentration value

Table 4-19
Exposure Unit 17
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	206	8.46 J	24700	19
Benzo(a)anthracene	µg/Kg	206	0.571 J	73300	73
Benzo(a)pyrene	µg/Kg	206	2.09	82500	66
Benzo(b)fluoranthene	µg/Kg	206	0.604	42800 D	79
Benzo(g,h,i)perylene	µg/Kg	206	1.47 J	54100	51
Benzo(k)fluoranthene	µg/Kg	206	0.76	62900	53
Chrysene	µg/Kg	206	0.886 Jh	76000	85
Dibenzo(a,h)anthracene	µg/Kg	206	1.43 J	22500	12
Fluoranthene	µg/Kg	206	0.617 J	92400 D	96
Fluorene	µg/Kg	208	7.21 J	15200 J	20
Indeno(1,2,3-cd)pyrene	µg/Kg	206	30.6 J	43600	38
Naphthalene	µg/Kg	208	2.44 JP	2170	24
Phenanthrene	µg/Kg	206	1.67 J	71600 D	75
Pyrene	µg/Kg	204	1.26 J	99700 D	88
PCBs					
Aroclor-1016	µg/Kg	134	--	--	0
Aroclor-1221	µg/Kg	134	--	--	0
Aroclor-1232	µg/Kg	134	--	--	0
Aroclor-1242	µg/Kg	134	4.8	8.8	3
Aroclor-1248	µg/Kg	134	--	--	0
Aroclor-1254	µg/Kg	134	2.6 J	714 JP	19
Aroclor-1260	µg/Kg	134	1.4 J	70200	52
Pesticides					
4,4'-DDD	µg/Kg	125	0.289 J	2.18 J	4
4,4'-DDE	µg/Kg	125	0.302 J	13.3	44
4,4'-DDT	µg/Kg	125	0.506 J	18.9	32
Aldrin	µg/Kg	125	--	--	0
alpha-BHC	µg/Kg	125	--	--	0
alpha-Chlordane	µg/Kg	125	--	--	0
beta-BHC	µg/Kg	125	--	--	0
delta-BHC	µg/Kg	125	0.48 JP	0.48 JP	1
Dieldrin	µg/Kg	125	0.222 J	0.92 JP	5
Endosulfan I	µg/Kg	125	--	--	0
Endosulfan II	µg/Kg	125	--	--	0
Endosulfan sulfate	µg/Kg	125	0.99 J	0.99 J	1
Endrin	µg/Kg	125	--	--	0
Endrin aldehyde	µg/Kg	125	--	--	0
Endrin ketone	µg/Kg	125	--	--	0
gamma-BHC (Lindane)	µg/Kg	125	--	--	0
gamma-Chlordane	µg/Kg	125	0.306 J	0.306 J	1
Heptachlor	µg/Kg	125	1.7	1.7	1
Heptachlor epoxide	µg/Kg	125	--	--	0
Methoxychlor	µg/Kg	125	--	--	0
Toxaphene	µg/Kg	125	--	--	0

* Data qualifier included with concentration value

Table 4-19
Exposure Unit 17
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	413	0.278	132	49
Alpha	pCi/g	189	5.41	19000	188
Americium-241	pCi/g	413	0.035	0.636	7
Beta	pCi/g	189	10.2	15100	189
Cesium-137	pCi/g	447	0.0213	3	338
Cobalt-60	pCi/g	413	--	--	0
Plutonium-238	pCi/g	10	--	--	0
Plutonium-239/240	pCi/g	10	0.129	0.129	1
Potassium-40	pCi/g	190	2.34	28.4	188
Protactinium-231	pCi/g	413	9.43	127	4
Radium-226	pCi/g	499	0.378	1140	488
Radium-228	pCi/g	413	0.0607	3.18	400
Thorium-228	pCi/g	498	0.0481	2.38	486
Thorium-230	pCi/g	499	0.0906	978	481
Thorium-232	pCi/g	499	0.036	2.07	494
Total Uranium	μg/g	499	0.111	5630	488
Uranium-234	pCi/g	499	0.0527	8340	494
Uranium-235	pCi/g	499	0.0395	886	122
Uranium-238	pCi/g	499	0.0416	8830	492
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	207	--	--	0
1,2-Dichlorobenzene	μg/Kg	208	--	--	0
1,3-Dichlorobenzene	μg/Kg	208	--	--	0
1,4-Dichlorobenzene	μg/Kg	208	--	--	0
2,4,5-Trichlorophenol	μg/Kg	208	--	--	0
2,4,6-Trichlorophenol	μg/Kg	207	--	--	0
2,4-Dichlorophenol	μg/Kg	208	--	--	0
2,4-Dimethylphenol	μg/Kg	208	--	--	0
2,4-Dinitrophenol	μg/Kg	208	--	--	0
2-Chloronaphthalene	μg/Kg	208	--	--	0
2-Chlorophenol	μg/Kg	208	21.7 J	21.7 J	1
2-Methyl-4,6-dinitrophenol	μg/Kg	206	--	--	0
2-Methylnaphthalene	μg/Kg	207	25.4 J	2950	14
2-Nitroaniline	μg/Kg	205	--	--	0
2-Nitrophenol	μg/Kg	208	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	206	--	--	0
3-Nitroaniline	μg/Kg	208	--	--	0
4-Bromophenylphenylether	μg/Kg	206	--	--	0
4-Chloro-3-methylphenol	μg/Kg	208	--	--	0
4-Chloroaniline	μg/Kg	208	--	--	0
4-Chlorophenylphenylether	μg/Kg	206	--	--	0
4-Nitroaniline	μg/Kg	206	--	--	0
4-Nitrophenol	μg/Kg	208	--	--	0

* Data qualifier included with concentration value

Table 4-19
Exposure Unit 17
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Benzoic Acid	µg/Kg	202	69 J	602 J	3
Benzyl Alcohol	µg/Kg	2	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	208	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	208	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	208	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	206	43 J	7900	33
Butylbenzylphthalate	µg/Kg	206	17.7 J	62.7 J	2
Carbazole	µg/Kg	206	28.7 J	20000	11
Dibenzofuran	µg/Kg	208	20.8 J	2180	5
Diethylphthalate	µg/Kg	208	31.6 J	31.6 J	1
Dimethylphthalate	µg/Kg	208	--	--	0
Di-n-butylphthalate	µg/Kg	206	291 J	291 J	1
Di-n-octylphthalate	µg/Kg	206	150 J	506	2
Diphenylamine	µg/Kg	138	--	--	0
Hexachlorobenzene	µg/Kg	206	--	--	0
Hexachlorobutadiene	µg/Kg	208	--	--	0
Hexachlorocyclopentadiene	µg/Kg	208	--	--	0
Hexachloroethane	µg/Kg	208	--	--	0
Isophorone	µg/Kg	208	--	--	0
m,p-Cresols	µg/Kg	207	19.7 J	19.7 J	1
N-Nitroso-di-n-propylamine	µg/Kg	208	--	--	0
N-Nitrosodiphenylamine	µg/Kg	68	--	--	0
o-Cresol	µg/Kg	208	--	--	0
p-Cresol	µg/Kg	1	--	--	0
Pentachlorophenol	µg/Kg	206	--	--	0
Phenol	µg/Kg	208	28.1 J	28.1 J	1
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	143	0.83 J	0.83 J	1
1,1,2,2-Tetrachloroethane	µg/Kg	143	--	--	0
1,1,2-Trichloroethane	µg/Kg	143	--	--	0
1,1-Dichloroethane	µg/Kg	143	--	--	0
1,1-Dichloroethene	µg/Kg	143	0.555 J	8.4	13
1,2-Dichloroethane	µg/Kg	143	--	--	0
1,2-Dichloroethene	µg/Kg	1	--	--	0
1,2-Dichloropropane	µg/Kg	143	--	--	0
2-Butanone	µg/Kg	143	2.6 J	307	23
2-Hexanone	µg/Kg	143	0.71 J	4.4	2
4-Methyl-2-pentanone	µg/Kg	143	--	--	0
Acetone	µg/Kg	143	1.5 J	302	36
Benzene	µg/Kg	143	0.15 J	2.6	14
Bromodichloromethane	µg/Kg	143	--	--	0
Bromoform	µg/Kg	143	--	--	0
Bromomethane	µg/Kg	143	--	--	0
Carbon disulfide	µg/Kg	143	1.2 J	9.1	9

* Data qualifier included with concentration value

Table 4-19
Exposure Unit 17
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Carbon tetrachloride	µg/Kg	143	--	--	0
Chlorobenzene	µg/Kg	143	--	--	0
Chloroethane	µg/Kg	143	--	--	0
Chloroform	µg/Kg	143	0.45 J	0.45 J	1
Chloromethane	µg/Kg	143	--	--	0
cis-1,3-Dichloropropene	µg/Kg	143	--	--	0
Dibromochloromethane	µg/Kg	143	--	--	0
Ethylbenzene	µg/Kg	143	0.58 J	0.58 J	1
m,p-Xylenes	µg/Kg	1	--	--	0
Methylene chloride	µg/Kg	143	1.3 J	18.5	6
o-Xylene	µg/Kg	1	--	--	0
Styrene	µg/Kg	143	--	--	0
Tetrachloroethene	µg/Kg	143	0.84 J	1410	9
Toluene	µg/Kg	143	0.21 J	5.7	29
trans-1,3-Dichloropropene	µg/Kg	143	--	--	0
Trichloroethene	µg/Kg	143	0.571 J	71.4 J	5
Vinyl chloride	µg/Kg	143	--	--	0
Xylenes (total)	µg/Kg	142	0.39 J	1.8 J	8

* Data qualifier included with concentration value

Table 4-20
Exposure Unit 1
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Boron	mg/Kg	10.1	SD713-324	10.5 *
			SS504-692	10.9
Cadmium	mg/Kg	0.53	SD712-319	0.68
			SD713-324	1.1
Copper	mg/Kg	34.7	C5-VS-SO-B300-1	37.5
			SD712-319	36.9
			SS502-060	36.5
			SS504-692	41.7 E*
			SS505-694	36.2 *N
Lithium	mg/Kg	27.9	C5-VS-SO-B300-1	30.7
			SD712-319	32.9 E
Magnesium	mg/Kg	10200	SD713-324	12900 *
Mercury	mg/Kg	0.27	SD712-319	0.55
			SD713-324	1.1
Nickel	mg/Kg	37.5	C5-VS-SO-B300-1	46
Potassium	mg/Kg	1820	SD713-324	2710 E
			SS-EU011-3327	2350 N
Selenium	mg/Kg	0.37	SD712-319	1.7 N
			SD713-324	0.91 BN
			SD714-326	0.84 BN
			SS501-059	1.1
			SS503-064	1.3
			SS504-692	1.05 B
			SS505-694	1.47 B
			SS-EU011-3327	0.725 B
Silver	mg/Kg	0.27	SS503-064	0.75 N
			SS505-694	0.341 B
Thallium	mg/Kg	--	SD712-319	0.27
			SD713-324	0.14
			SD714-326	0.16 B
			SS501-059	0.1 B
			SS502-060	0.07 B
			SS503-064	0.09 B
			SS504-692	0.285 B
			SS-EU011-3327	0.11 BE
PAHs				
Benzo(g,h,i)perylene	μg/Kg	--	C5-VS-SO-B300-1	1.7
Naphthalene	μg/Kg	--	SS504-692	292 J
PCBs				
Aroclor-1260	μg/Kg	--	SD714-326	8.9 J
Pesticides				
4,4'-DDD	μg/Kg	--	SS-EU011-3327	0.357 J

* Data qualifier included with concentration value

Table 4-20
Exposure Unit 1
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
4,4'-DDE	μg/Kg	--	SS505-694	0.69 J
			SS-EU011-3327	2.67
4,4'-DDT	μg/Kg	--	SS-EU011-3327	2.24
Radionuclides				
Actinium-227	pCi/g	0.08	SD746-2150	8
			SD747-2152	2.22
			SS5A016-2170	1.51
Alpha	pCi/g	--	SD712-319	13.3
			SD713-324	10.6
			SD714-326	15.5
			SD-WD1-3406-0.5	10.8
			SS501-059	10.3
			SS502-060	23.2
			SS503-064	230
			SS-EU011-3327	11.8
Beta	pCi/g	--	SD712-319	20.9
			SD713-324	22.9
			SD714-326	23.8
			SD-WD1-3406-0.5	19.5
			SS501-059	22.3
			SS502-060	34.3
			SS503-064	219
			SS-EU011-3327	21.1
Cesium-137	pCi/g	0.343	SD714-326	0.399 J
			SD746-2150	0.49
			SS504-692	0.864
			SS5A001-637	1.13
			SS5A004-640	1.07
			SS5A010-2164	0.417
			SS5A011-2165	0.402
			SS5A012-2166	0.423
			SS5A013-2167	0.391

* Data qualifier included with concentration value

Table 4-20
Exposure Unit 1
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SD712-319	0.923 J
			SD746-2150	184
			SD747-2152	37.1
			SS501-059	0.993
			SS504-692	6.07
			SS5A010-2164	5.36
			SS5A011-2165	1.92
			SS5A012-2166	4.57
			SS5A013-2167	3.72
			SS5A014-2168	4.79
			SS5A016-2170	13.4
			SS5A021-2214	6.39
			SS-EU011-3327	1.49
Radium-228	pCi/g	1.26	SS5A006-642	1.44
			SS5A010-2164	1.61
			SS5A012-2166	1.5
			SS5A013-2167	1.41
			SS5A014-2168	2.08
			SS5A021-2214	2.43
Thorium-228	pCi/g	1.64	SS5A006-642	2.38
			SS5A010-2164	1.79
			SS5A021-2214	2.01
Thorium-230	pCi/g	1.6	SD746-2150	230
			SD747-2152	48.1
			SD-WD1-3406-0.5	1.66
			SS505-694	1.97
			SS5A010-2164	4.56
			SS5A011-2165	1.88
			SS5A012-2166	3.37
			SS5A013-2167	3.42
			SS5A014-2168	2.21
			SS5A016-2170	31.3
			SS5A021-2214	4.53
			SS-EU011-3327	2.14
Thorium-232	pCi/g	1.24	SS504-692	1.36
			SS5A006-642	1.73
			SS5A010-2164	1.31

* Data qualifier included with concentration value

Table 4-20
Exposure Unit 1
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	µg/g	3.94	SD746-2150	6.35
			SS502-060	27.1
			SS503-064	366
			SS504-692	27.7
			SS5A001-637	8.97
			SS5A002-638	8.01
			SS5A006-642	7.6
			SS5A010-2164	7.63
			SS5A012-2166	6
			SS5A013-2167	6.73
			SS5A014-2168	6.81
			SS5A016-2170	4.43
			SS5A021-2214	10
Uranium-234	pCi/g	1.68	SD746-2150	4.14
			SS502-060	7.09
			SS503-064	119
			SS504-692	7.66
			SS505-694	1.79
			SS5A001-637	2.51
			SS5A002-638	4.07
			SS5A006-642	2.26
			SS5A010-2164	2.37
			SS5A012-2166	3.4
			SS5A013-2167	3.79
			SS5A016-2170	2.11
			SS5A021-2214	3.4
Uranium-235	pCi/g	0.0847	SD712-319	0.109 J
			SD746-2150	0.257
			SD-WD1-3406-0.5	0.404
			SS502-060	0.264 J
			SS503-064	6.15
			SS504-692	0.338
			SS5A006-642	0.262
			SS5A011-2165	0.177
			SS5A012-2166	0.507
			SS5A013-2167	0.367
			SS5A014-2168	0.129
			SS5A021-2214	0.221

* Data qualifier included with concentration value

Table 4-20
Exposure Unit 1
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.36	SD746-2150	3.01
			SS502-060	6.5
			SS503-064	120
			SS504-692	7.52
			SS505-694	2.17
			SS5A001-637	2.73
			SS5A002-638	4.13
			SS5A004-640	1.42
			SS5A006-642	2.69
			SS5A010-2164	2.5
			SS5A012-2166	2.55
			SS5A013-2167	2.72
			SS5A014-2168	1.82
			SS5A016-2170	1.81
			SS5A021-2214	3.72
Semivolatile Organics				
2-Methylnaphthalene	μg/Kg	--	SS504-692	440
Di-n-octylphthalate	μg/Kg	--	C5-VS-SO-B300-1	150 J
Volatile Organics				
1,1-Dichloroethene	μg/Kg	--	SS505-694	1.5
2-Butanone	μg/Kg	--	SS501-059	6
			SS502-060	6.5
			SS503-064	5.1
Acetone	μg/Kg	--	SD714-326	8 J
			SS501-059	50.2
			SS502-060	65.6
			SS503-064	56.8
Benzene	μg/Kg	--	SS502-060	0.54 J
Carbon disulfide	μg/Kg	--	SS501-059	1.2 J
			SS503-064	1.8 J
Ethylbenzene	μg/Kg	--	SS503-064	0.58 J
Toluene	μg/Kg	--	SS501-059	0.74
			SS503-064	1.5
Xylenes (total)	μg/Kg	--	SS503-064	0.39 J
			SS505-694	1.3 J

* Data qualifier included with concentration value

Table 4-21
Exposure Unit 2
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	18400	SS402-039	40100
			SS4A012-611	24400
			SS-DRUM01-3369	38400 *
Antimony	mg/Kg	0.94	SS-DRUM01-3369	1.83 N
			SS-EU021-3328	1.15 N
			SS-EU022-3329	1.13 BN
Barium	mg/Kg	279	SS402-039	481
Beryllium	mg/Kg	1	SS402-039	5.2
			SS4A012-611	2.38
			SS-DRUM01-3369	3.42
Boron	mg/Kg	10.1	SS402-039	147
			SS4A012-611	10.2
			SS-DRUM01-3369	85.8
Cadmium	mg/Kg	0.53	SS4A012-611	0.964
Calcium	mg/Kg	45200	SS402-039	238000 *
			SS406-043	51500
			SS4A012-611	88100
			SS-DRUM01-3369	47800 *
Chromium	mg/Kg	24.3	SS401-037	26.1
			SS4A012-611	67
			SS-DRUM01-3369	29.4 *
			SS-EU021-3328	30.9 *
Copper	mg/Kg	34.7	SS403-040	40.4
			SS404-041	55 N
			SS4A012-611	57.6
			SS4B003-614	36.7
			SS-DRUM01-3369	35.2 *N
Lead	mg/Kg	55.2	SS403-040	588
			SS4A010-608	96.6
			SS4A012-611	67.8
Lithium	mg/Kg	27.9	SS402-039	36
			SS808-077	103
			SS-DRUM01-3369	32.2 N*
Magnesium	mg/Kg	10200	SS402-039	11800
			SS406-043	29500
			SS4A012-611	44400
Mercury	mg/Kg	0.27	SS404-041	1.5 N
Nickel	mg/Kg	37.5	SS404-041	46.8 *E
			SS-DRUM01-3369	43.5 *
Potassium	mg/Kg	1820	SS-DRUM01-3369	9150 N
			SS-EU022-3329	1910 N

* Data qualifier included with concentration value

Table 4-21
Exposure Unit 2
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SS402-039	5.4 B
			SS403-040	0.87 B
			SS404-041	1.5
			SS405-042	1
			SS406-043	0.69 BN
			SS4A008-606	1.16 B
			SS4A010-608	1.06 B
			SS4A012-611	2.28
			SS4B003-614	0.983 B
			SS808-077	5.8 B
			SS810-079	0.84 B
			SS822-710	0.685 B
			SS-DRUM01-3369	1.61
			SS-EU021-3328	0.794 B
			SS-EU022-3329	0.995 B
Silver	mg/Kg	0.27	SS403-040	0.34
Sodium	mg/Kg	286	SS402-039	780 E
			SS-DRUM01-3369	2410 *
Thallium	mg/Kg	--	SS401-037	0.07 B
			SS403-040	0.15
			SS404-041	0.09 B
			SS405-042	0.12
			SS406-043	0.1 B
			SS4A008-606	0.128
			SS4A010-608	0.145
			SS4A012-611	0.135
			SS4B003-614	0.151
			SS808-077	0.08 B
			SS809-078	0.06 B
			SS810-079	0.13
			SS822-710	0.153 B
			SS-DRUM01-3369	0.249 E
			SS-EU021-3328	0.138 E
			SS-EU022-3329	0.12 BE
Vanadium	mg/Kg	34	SS-DRUM01-3369	52
Zinc	mg/Kg	78	SS403-040	85.6 E
			SS404-041	148 *E
			SS405-042	140 *E
			SS406-043	79.4 *
			SS4A010-608	97.8
			SS4A012-611	475
			SS-DRUM01-3369	102 *
PAHs				

* Data qualifier included with concentration value

Table 4-21
Exposure Unit 2
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Acenaphthene	μg/Kg	--	SS405-042	206 J
			SS4A003-601	2460 JD
			SS4A007-605	6270 JD
Acenaphthylene	μg/Kg	--	SS-DRUM01-3369	38.2
Anthracene	μg/Kg	--	SS405-042	240 J
			SS4A003-601	1530 J
			SS4A007-605	6660
Benzo(a)anthracene	μg/Kg	284	SS405-042	1170
			SS4A003-601	17900 D
			SS4A007-605	26900 D
			SS4B001-612	887 J
Benzo(a)pyrene	μg/Kg	313	SS405-042	1830
			SS4A003-601	36000 D
			SS4A007-605	27500 D
			SS4B001-612	2560
Benzo(b)fluoranthene	μg/Kg	396	SS405-042	1740
			SS4A003-601	29700 E
			SS4A007-605	35000 D
			SS4B001-612	4480
			SS-DRUM01-3369	413
Benzo(g,h,i)perylene	μg/Kg	--	SS405-042	1030
			SS4A003-601	19400 E
			SS4A007-605	9820
			SS4B001-612	1460 J
			SS-DRUM01-3369	101
Benzo(k)fluoranthene	μg/Kg	322	SS405-042	1410
			SS4A003-601	25900 D
			SS4A007-605	6420
			SS4B001-612	1650
Chrysene	μg/Kg	378	SS405-042	1210
			SS4A003-601	19800 D
			SS4A007-605	26300 D
			SS4B001-612	2380
Dibenzo(a,h)anthracene	μg/Kg	--	SS4A003-601	7850 D
			SS4A007-605	4010 JD
Fluoranthene	μg/Kg	889	SS405-042	1920
			SS4A003-601	12700 D
			SS4A007-605	55800 D
Fluorene	μg/Kg	--	SS405-042	103 J
			SS4A007-605	2570

* Data qualifier included with concentration value

Table 4-21
Exposure Unit 2
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Indeno(1,2,3-cd)pyrene	μg/Kg	--	SS404-041	135 J
			SS405-042	980
			SS4A003-601	17500
			SS4A007-605	8990
			SS4B001-612	1420 J
			SS-DRUM01-3369	332
Naphthalene	μg/Kg	--	SS405-042	51.7 J
			SS4A007-605	893 J
Phenanthrene	μg/Kg	538	SS405-042	1320
			SS4A003-601	6040 D
			SS4A007-605	56300 D
Pyrene	μg/Kg	716	SS405-042	1900
			SS4A003-601	17300 D
			SS4A007-605	62900 D
			SS4B001-612	897 J
PCBs				
Aroclor-1260	μg/Kg	--	SS403-040	9.8 JP
			SS406-043	69.6
			SS-DRUM01-3369	6.3
			SS-EU021-3328	14.7 J
			SS-EU022-3329	3.4 J
Pesticides				
4,4'-DDD	μg/Kg	--	SS-DRUM01-3369	2.01
			SS-EU022-3329	0.289 J
4,4'-DDE	μg/Kg	--	SS-DRUM01-3369	3.78
			SS-EU021-3328	3.07 J
			SS-EU022-3329	2.58
4,4'-DDT	μg/Kg	--	SS-DRUM01-3369	4.45
			SS-EU022-3329	2.06
Dieldrin	μg/Kg	--	SS-DRUM01-3369	0.742 J
Radionuclides				
Actinium-227	pCi/g	0.08	SS4A014-2271	0.607
			SS8F001-2201	3.77
			SS8F003-2203	1.51
			SS8F005-2206	1.26

* Data qualifier included with concentration value

Table 4-21
Exposure Unit 2
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	--	SS401-037	14.5
			SS402-039	92.4
			SS403-040	20.7
			SS404-041	46.5
			SS405-042	19
			SS406-043	31.8
			SS808-077	19.6
			SS809-078	12
			SS810-079	15.1
			SS-DRUM01-3369	19.9
			SS-EU021-3328	12.3
			SS-EU022-3329	9.83
Beta	pCi/g	--	SS401-037	21.4
			SS402-039	35
			SS403-040	25
			SS404-041	31.8
			SS405-042	26.8
			SS406-043	29.9
			SS808-077	23.3
			SS809-078	19.4
			SS810-079	25.1
			SS-DRUM01-3369	17.3
			SS-EU021-3328	17.5
			SS-EU022-3329	17.2
Cesium-137	pCi/g	0.343	SS4A002-600	0.429
			SS4A003-601	0.56
			SS4A004-602	0.408
			SS4A007-605	0.817
			SS4A013-2270	0.385
			SS4A016-2275	0.402
			SS4A019-2425	0.533
			SS4B003-614	0.384
			SS8D001-2188	0.449
			SS8E002-2199	0.473 J
			SS8F001-2201	0.585
			SS8F005-2206	0.381
			SS-DRUM01-3369	0.669
			SS-EU021-3328	0.399

* Data qualifier included with concentration value

Table 4-21
Exposure Unit 2
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SS401-037	1.39
			SS402-039	9.49
			SS403-040	1.58
			SS404-041	4.5
			SS405-042	1.62
			SS406-043	2.15
			SS4A001-598	1.64
			SS4A002-600	1.41
			SS4A003-601	5.35
			SS4A004-602	1.87
			SS4A005-603	1.83
			SS4A006-604	1.69
			SS4A007-605	3.27
			SS4A008-606	1.3
			SS4A010-608	1.34
			SS4A011-610	1.92
			SS4A012-611	1.11
			SS4A013-2270	6
			SS4A014-2271	8.48
			SS4A015-2274	7.17
			SS4A016-2275	1.07
			SS4A017-2276	1.17
			SS4A018-2277	1.04
			SS4A019-2425	4.49
			SS4A020-2426	0.994
			SS4B001-612	3.09
			SS4B002-613	2.66
			SS4B003-614	2.14
			SS8D001-2188	3.78
			SS8E002-2199	1.98 J
			SS8F001-2201	61.5
			SS8F003-2203	45.9
			SS8F005-2206	18.9
			SS8F006-2207	7.32
			SS8F007-2208	1.12
			SS-DRUM01-3369	2.38
			SS-EU021-3328	1.31
			SS-EU022-3329	1.04
Radium-228	pCi/g	1.26	SS4A015-2274	1.32
			SS8F003-2203	1.27
			SS8F006-2207	3.18

* Data qualifier included with concentration value

Table 4-21
Exposure Unit 2
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SS401-037	1.62
			SS402-039	10.8
			SS403-040	2.15
			SS404-041	9.54
			SS406-043	2.27
			SS4A001-598	2.67
			SS4A002-600	1.88
			SS4A003-601	3.62
			SS4A004-602	2.25
			SS4A005-603	2.18
			SS4A006-604	2.05
			SS4A007-605	6.29
			SS4A011-610	3.38
			SS4A012-611	2.72
			SS4A013-2270	11.2
			SS4A014-2271	6.3
			SS4A015-2274	5.36
			SS4A016-2275	1.66
			SS4A019-2425	2.46
			SS4B001-612	4.47
			SS4B002-613	3.7
			SS4B003-614	2.37
			SS8D001-2188	3.73
			SS8E002-2199	2.12 J
			SS8F001-2201	6.76
			SS8F003-2203	39.4
			SS8F005-2206	40.8
			SS8F006-2207	2.99
			SS-DRUM01-3369	2.69
			SS-EU021-3328	1.73
Total Uranium	μg/g	3.94	SS402-039	33.1
			SS4A007-605	6.11
			SS4A012-611	8.69
			SS4A013-2270	4.05
			SS4A014-2271	11.4
			SS4A015-2274	10.5
			SS4B001-612	8.97
			SS4B002-613	5.07
			SS8F001-2201	4.32
			SS8F003-2203	4.83
			SS8F005-2206	4.33
			SS8F006-2207	6.63

* Data qualifier included with concentration value

Table 4-21
Exposure Unit 2
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.68	SS402-039	10.1
			SS4A011-610	1.76
			SS4A012-611	2.82
			SS4A013-2270	1.94
			SS4A014-2271	5.31
			SS4A015-2274	4.64
			SS4B001-612	3.63
			SS8F001-2201	2.79
			SS8F003-2203	1.86
			SS8F005-2206	1.74
			SS8F006-2207	2.4
Uranium-235	pCi/g	0.0847	SS402-039	0.302 J
			SS4A014-2271	0.252
			SS4A015-2274	0.184
			SS8F003-2203	0.0978
			SS8F006-2207	0.167
Uranium-238	pCi/g	1.36	SS402-039	10.1
			SS4A007-605	1.84
			SS4A009-607	1.72
			SS4A012-611	3.02
			SS4A013-2270	1.87
			SS4A014-2271	4.56
			SS4A015-2274	4.63
			SS4B001-612	2.72
			SS8F001-2201	1.9
			SS8F003-2203	1.65
			SS8F005-2206	1.51
			SS8F006-2207	1.73
Semivolatile Organics				
bis(2-Ethylhexyl)phthalate	μg/Kg	5130	SS4A004-602	7900
Carbazole	μg/Kg	--	SS405-042	210 J
			SS4A007-605	6660 JD
Volatile Organics				
2-Butanone	μg/Kg	--	SS401-037	6.7
			SS809-078	9
2-Hexanone	μg/Kg	--	SS405-042	4.4
Acetone	μg/Kg	--	SS401-037	63.1 B
			SS404-041	23.9
			SS809-078	71.3
			SS-DRUM01-3369	8.6
			SS-EU022-3329	8.84

* Data qualifier included with concentration value

Table 4-21
Exposure Unit 2
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzene	μg/Kg	--	SS401-037	2.6
			SS403-040	1.6
			SS404-041	1.5
			SS405-042	1.8
Carbon disulfide	μg/Kg	--	SS402-039	9.1
			SS403-040	1.4 J
			SS404-041	4
Toluene	μg/Kg	--	SS401-037	3.9
			SS402-039	0.37 J
			SS403-040	1.1
			SS404-041	2.3
			SS405-042	1.6
Xylenes (total)	μg/Kg	--	SS401-037	1.8 J
			SS404-041	0.99 J

* Data qualifier included with concentration value

Table 4-22
Exposure Unit 3
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Chromium	mg/Kg	24.3	SS407-044	36.8 E
Copper	mg/Kg	34.7	SS407-044	40.5 N
			SS408-045	37.5
			SS-EU034-3333	35.3 *
Lead	mg/Kg	55.2	SS409-046	70.2
Magnesium	mg/Kg	10200	SS408-045	10500
Potassium	mg/Kg	1820	SS-EU031-3330	2180 E*
			SS-EU032-3331	2490 N
			SS-EU033-3332	2290 E*
			SS-EU034-3333	2400 E*
Selenium	mg/Kg	0.37	SS407-044	1.3
			SS408-045	1.2
			SS409-046	0.73 B
			SS4B005-616	0.981 B
			SS-EU031-3330	0.409 B
			SS-EU032-3331	0.577 B
Silver	mg/Kg	0.27	SS-EU031-3330	0.291
Thallium	mg/Kg	--	SS407-044	0.11 B
			SS408-045	0.1 B
			SS409-046	0.13
			SS4B005-616	0.118
			SS-EU031-3330	0.099 BE
			SS-EU032-3331	0.125 E
			SS-EU033-3332	0.11 BE
			SS-EU034-3333	0.102 BE
PAHs				
Benzo(g,h,i)perylene	μg/Kg	--	SS408-045	216 J
Indeno(1,2,3-cd)pyrene	μg/Kg	--	SS408-045	154 J
PCBs				
Aroclor-1260	μg/Kg	--	SS409-046	16
Pesticides				
4,4'-DDE	μg/Kg	--	SS-EU031-3330	2.94
4,4'-DDT	μg/Kg	--	SS-EU031-3330	2.58
Radionuclides				
Actinium-227	pCi/g	0.08	SS4B009-2280	2.26
			SS4B021-2295	0.938
Alpha	pCi/g	--	SS407-044	13.2
			SS408-045	8.91
			SS409-046	14.9
			SS-EU031-3330	15.7
			SS-EU032-3331	8.39

* Data qualifier included with concentration value

Table 4-22
Exposure Unit 3
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	--	SS407-044	19.3
			SS408-045	16.2
			SS409-046	26.5
			SS-EU031-3330	25.7
			SS-EU032-3331	15.9
Radium-226	pCi/g	0.921	SS407-044	1.98
			SS408-045	1.17
			SS409-046	1.28
			SS4B004-615	1.1
			SS4B005-616	1.41
			SS4B006-617	1.72
			SS4B007-2278	1.4
			SS4B008-2279	1.71
			SS4B009-2280	37.5
			SS4B010-2282	7.31
			SS4B012-2284	1.12
			SS4B014-2288	15.2
			SS4B015-2289	2.05
			SS4B016-2290	2.36
			SS4B017-2291	7.14
			SS4B019-2293	1.44
			SS4B020-2294	0.944
			SS4B021-2295	17.6
			SS-EU031-3330	0.988
Thorium-230	pCi/g	1.6	SS4B006-617	1.94
			SS4B007-2278	2.37
			SS4B008-2279	2.14
			SS4B009-2280	8.46
			SS4B010-2282	12.1
			SS4B013-2285	2.22
			SS4B014-2288	2.96
			SS4B015-2289	2.56
			SS4B016-2290	3.32
			SS4B019-2293	1.65
			SS4B021-2295	3.76
Total Uranium	μg/g	3.94	SS4B009-2280	34.3
			SS4B010-2282	6.6
			SS4B014-2288	4.28
			SS4B016-2290	7.76
Uranium-234	pCi/g	1.68	SS4B009-2280	11.5
			SS4B010-2282	3.03
			SS4B015-2289	2.09
			SS4B016-2290	3.39
			SS4B021-2295	2.08

* Data qualifier included with concentration value

Table 4-22
Exposure Unit 3
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/g	0.0847	SS408-045	0.163 J
			SS4B009-2280	0.309
			SS4B010-2282	0.158
			SS4B014-2288	0.15
			SS4B016-2290	0.229
			SS4B019-2293	0.119
			SS-EU032-3331	0.167
Uranium-238	pCi/g	1.36	SS407-044	1.62
			SS4B009-2280	11
			SS4B010-2282	3.46
			SS4B012-2284	1.47
			SS4B014-2288	1.69
			SS4B015-2289	1.91
			SS4B016-2290	3
			SS4B021-2295	1.89

* Data qualifier included with concentration value

Table 4-23
Exposure Unit 4
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	18400	SS418-055	21800
			SS-DRUM05-3381	20100 J
			SS-MW424-3620	18600
Antimony	mg/Kg	0.94	SS-DRUM02-3372	3.57 N
			SS-DRUM04-3378	1.54 N
			SS-DRUM05-3381	2 J
Arsenic	mg/Kg	11.3	SS-DRUM02-3372	17.2 N
			SS-DRUM04-3378	13.8 N
Barium	mg/Kg	279	SS-DRUM04-3378	2670 N*
Boron	mg/Kg	10.1	SS410-047	15.5
			SS415-052	10.5
			SS418-055	97.1
			SS419-056	17.1 *
			SS-DRUM02-3372	280
			SS-DRUM04-3378	12
			SS-DRUM05-3381	313 J
			SS-DRUM06-3395	23.4 N
			SS-DRUM07-3398	23.5 N
			SS-MW422-3608	11.8 N
			SS-MW423-3611	12.6 N
Cadmium	mg/Kg	0.53	SS414-051	0.58 B
			SS416-053	0.61
			SS419-056	0.67
			SS4C001-618	0.534 B
			SS-DRUM02-3372	0.624 B
			SS-DRUM05-3381	0.559 J
Calcium	mg/Kg	45200	SS411-048	46900
			SS412-049	93600 E
			SS4D007-621	57800
			SS-DRUM02-3372	47800 *
Chromium	mg/Kg	24.3	SS417-054	196
			SS418-055	26.7 *
			SS-DRUM02-3372	37.9 *
			SS-DRUM04-3378	88.7 *
			SS-DRUM05-3381	49.4 J

* Data qualifier included with concentration value

Table 4-23
Exposure Unit 4
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Copper	mg/Kg	34.7	SS410-047	51
			SS412-049	37.9
			SS413-050	75.4
			SS415-052	35.4
			SS418-055	50.1
			SS4D005-619	46.2 *
			SS4D007-621	50.3
			SS4D008-623	35.4
			SS-DRUM02-3372	159 *N
			SS-DRUM04-3378	76.2 *N
			SS-DRUM05-3381	590 J
			SS-DRUM06-3395	270
			SS-MW422-3608	41 *
Iron	mg/Kg	36400	SS-DRUM02-3372	105000 *
			SS-DRUM04-3378	50400 *
			SS-DRUM05-3381	154000 J
Lead	mg/Kg	55.2	SS413-050	686
			SS4C001-618	140
			SS-DRUM02-3372	391 *
			SS-DRUM04-3378	149 *
			SS-DRUM07-3398	64.8
Magnesium	mg/Kg	10200	SS411-048	10700
			SS412-049	17900
			SS418-055	14200
			SS-MW424-3620	10300 *
Nickel	mg/Kg	37.5	SS-DRUM02-3372	76.1 *
			SS-DRUM05-3381	65.1
Potassium	mg/Kg	1820	SS418-055	5850
			SS-DRUM02-3372	2860 N
			SS-DRUM04-3378	2030 N
			SS-DRUM05-3381	6330 J
			SS-DRUM06-3395	2270 E
			SS-MW422-3608	2460 *
			SS-MW423-3611	2460 *
			SS-MW424-3620	2670

* Data qualifier included with concentration value

Table 4-23
Exposure Unit 4
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SS410-047	1
			SS411-048	1.3
			SS412-049	0.53 B
			SS413-050	1.1
			SS415-052	0.97 B
			SS416-053	0.65 B
			SS417-054	1.2
			SS418-055	0.99 B
			SS419-056	0.73 BN
			SS4C001-618	0.581 B
			SS4D005-619	1.08 B
			SS4D007-621	1.34
			SS4D008-623	1.14 B
			SS-DRUM02-3372	0.65 B
			SS-DRUM04-3378	0.626 B
			SS-DRUM05-3381	1.22
			SS-DRUM06-3395	0.71 B
			SS-DRUM07-3398	0.954 B
			SS-MW422-3608	0.82 B
			SS-MW423-3611	0.456 B
			SS-MW424-3620	1.99 N
Silver	mg/Kg	0.27	SS4C001-618	0.375 B
			SS4D005-619	0.293 E
			SS-DRUM02-3372	0.273
Sodium	mg/Kg	286	SS418-055	766 E
			SS-DRUM02-3372	4520 *
			SS-DRUM05-3381	328 J

* Data qualifier included with concentration value

Table 4-23
Exposure Unit 4
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SS410-047	0.14
			SS411-048	0.11 B
			SS412-049	0.08 B
			SS413-050	0.16
			SS414-051	0.13 B
			SS415-052	0.15
			SS416-053	0.089 B
			SS417-054	0.2
			SS418-055	0.24
			SS419-056	0.11 B
			SS4D005-619	0.202
			SS4D007-621	0.094 B
			SS4D008-623	0.108 B
			SS-DRUM02-3372	0.115 BE
			SS-DRUM04-3378	0.11 BE
			SS-DRUM05-3381	0.163 E
			SS-DRUM06-3395	0.151
			SS-DRUM07-3398	0.242
			SS-MW422-3608	0.175 E
			SS-MW423-3611	0.19 E
			SS-MW424-3620	0.116
Vanadium	mg/Kg	34	SS418-055	41.2
			SS-DRUM05-3381	38.2 J
			SS-MW424-3620	34.2 *N
Zinc	mg/Kg	78	SS410-047	213
			SS413-050	157
			SS415-052	114
			SS418-055	159
			SS4C001-618	86.2
			SS4D005-619	83.2 *
			SS-DRUM02-3372	109 *
			SS-DRUM04-3378	88.7 *
			SS-DRUM06-3395	113
PAHs				
Acenaphthylene	μg/Kg	--	SS-DRUM04-3378	51.5
			SS-DRUM07-3398	14.9 J
			SS-MW423-3611	151 J
Benzo(a)anthracene	μg/Kg	284	SS417-054	446
			SS4D007-621	623
			SS-DRUM04-3378	578
Benzo(a)pyrene	μg/Kg	313	SS417-054	508
			SS4D007-621	670
			SS-DRUM04-3378	1290

* Data qualifier included with concentration value

Table 4-23
Exposure Unit 4
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzo(b)fluoranthene	µg/Kg	396	SS417-054	647
			SS4D007-621	949
			SS-DRUM04-3378	2980
Benzo(g,h,i)perylene	µg/Kg	--	SS412-049	2880 J
			SS413-050	49.3 J
			SS417-054	231 J
			SS4D007-621	376
			SS-DRUM04-3378	792
			SS-DRUM07-3398	62.5 P
Benzo(k)fluoranthene	µg/Kg	322	SS417-054	595
			SS4D007-621	908
			SS-DRUM04-3378	601
Chrysene	µg/Kg	378	SS417-054	562
			SS4D007-621	992
			SS-DRUM04-3378	1090
Fluorene	µg/Kg	--	SS-DRUM04-3378	11.6 J
			SS-DRUM07-3398	19.8 J
Indeno(1,2,3-cd)pyrene	µg/Kg	--	SS413-050	38.6 J
			SS417-054	240 J
			SS4D007-621	387
			SS-DRUM02-3372	39.5
			SS-DRUM04-3378	875
			SS-DRUM05-3381	38.3
			SS-DRUM07-3398	306
Naphthalene	µg/Kg	--	SS-DRUM06-3395	7 J
			SS-DRUM07-3398	76.7
Pyrene	µg/Kg	716	SS-DRUM04-3378	795
PCBs				
Aroclor-1254	µg/Kg	--	SS4C001-618	714 JP
			SS4D007-621	226
			SS4D008-623	100
			SS4F001-633	28.5 J
			SS4F002-634	28 J
			SS4F004-636	32.7 JP
			SS-DRUM06-3395	20.9

* Data qualifier included with concentration value

Table 4-23
Exposure Unit 4
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aroclor-1260	µg/Kg	--	SS313-687	4 J
			SS413-050	2030
			SS414-051	154
			SS415-052	110
			SS417-054	1120
			SS418-055	392
			SS4C001-618	14500
			SS4D005-619	320
			SS4D007-621	511
			SS4D008-623	361
			SS4D010-626	2580
			SS4D013-629	162
			SS4D015-631	354
			SS4F001-633	65.3
			SS4F002-634	94.4
			SS4F004-636	19.4 JP
			SS-DRUM02-3372	249
			SS-DRUM04-3378	5740
			SS-DRUM05-3381	309
			SS-DRUM06-3395	120
			SS-DRUM07-3398	70200
			SS-MW422-3608	1230 B
			SS-MW423-3611	7.1 B
			SS-MW424-3620	6
Pesticides				
4,4'-DDE	µg/Kg	--	SS313-687	1.1 JP
			SS4C001-618	6 P
			SS4D008-623	3.9
			SS4D013-629	2.7 P
			SS4D015-631	3.4 P
			SS4F004-636	3 P
			SS-DRUM02-3372	2.58
			SS-DRUM05-3381	4.33
			SS-DRUM06-3395	10.6
4,4'-DDT	µg/Kg	--	SS4F004-636	7.3 P
			SS-DRUM06-3395	13.1
Radionuclides				

* Data qualifier included with concentration value

Table 4-23
Exposure Unit 4
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	--	SS410-047	14
			SS411-048	23.4
			SS412-049	15.6
			SS413-050	21
			SS414-051	9.27
			SS415-052	19.7
			SS416-053	10.8
			SS417-054	20.2
			SS418-055	11.9
			SS419-056	19.8
			SS4C003-2299	18.9
			SS-DRUM02-3372	26.1
			SS-DRUM04-3378	12
			SS-DRUM05-3381	11.8 J
			SS-DRUM06-3395	11.2
			SS-DRUM07-3398	12.6
			SS-MW422-3608	12.8
			SS-MW423-3611	11.4
			SS-MW424-3620	8.79
Americium-241	pCi/g	--	SS422-688	0.104
			SS-DRUM02-3372	0.035
Beta	pCi/g	--	SS410-047	21.5
			SS411-048	35.4
			SS412-049	20
			SS413-050	20.6
			SS414-051	19.2
			SS415-052	27.3
			SS416-053	16.8
			SS417-054	26.6
			SS418-055	22.2
			SS419-056	21.9
			SS4C003-2299	24.4
			SS-DRUM02-3372	20.4
			SS-DRUM04-3378	21.8
			SS-DRUM05-3381	17.9 J
			SS-DRUM06-3395	21.3
			SS-DRUM07-3398	19.5
			SS-MW422-3608	22.7
			SS-MW423-3611	20.3
			SS-MW424-3620	17.3

* Data qualifier included with concentration value

Table 4-23
Exposure Unit 4
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/g	0.343	SS313-687	0.456
			SS414-051	1.92 J
			SS417-054	0.351 J
			SS418-055	0.493 J
			SS422-688	1.29
			SS4C001-618	0.379
			SS4C006-2303	0.383
			SS4D005-619	0.403
			SS4D006-620	0.379
			SS4D008-623	0.413
			SS4D009-625	0.38
			SS4D010-626	0.431
			SS4D011-627	0.585
			SS4D012-628	0.35
			SS4D013-629	0.439
			SS4D015-631	0.431
			SS4D019-2308	0.347
			SS4D020-2309	0.396
			SS4F001-633	0.374
			SS4F002-634	0.389
			SS-DRUM02-3372	1.02
			SS-DRUM04-3378	0.377
			SS-DRUM05-3381	0.522 J
			SS-DRUM06-3395	0.506
			SS-DRUM07-3398	0.42

* Data qualifier included with concentration value

Table 4-23
Exposure Unit 4
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SS313-687	1.52
			SS410-047	1.27
			SS413-050	2.01
			SS414-051	1.64
			SS415-052	1.67
			SS417-054	4.45
			SS418-055	1.35
			SS419-056	1.05
			SS422-688	2.33
			SS4C002-2298	5.83
			SS4C003-2299	1.78
			SS4C004-2300	3.72
			SS4C006-2303	1.33
			SS4D005-619	1.73
			SS4D006-620	1.21
			SS4D008-623	1.48
			SS4D009-625	1.15
			SS4D010-626	1.95
			SS4D011-627	2.34
			SS4D012-628	2.69
			SS4D013-629	1.86
			SS4D014-630	1.51
			SS4D015-631	2.32
			SS4D017-2306	4.66
			SS4D018-2307	1.01
			SS4D019-2308	2.95
			SS4D020-2309	1.43
			SS4F001-633	1.18
			SS4F002-634	1.14
			SS4F004-636	1.26
			SS4F009-2315	1.18
			SS4G001-2316	1.2
			SS-DRUM02-3372	2.54
			SS-DRUM04-3378	1.41
			SS-DRUM06-3395	1.14
			SS-DRUM07-3398	1.78
			SS-MW422-3608	1.05 J
Thorium-228	pCi/g	1.64	SS313-687	1.72
			SS4C003-2299	1.7
			SS4D005-619	1.68
			SS-MW424-3620	1.96

* Data qualifier included with concentration value

Table 4-23
Exposure Unit 4
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SS313-687	1.87
			SS412-049	2.05
			SS413-050	2.83
			SS414-051	2.09 J
			SS415-052	2.1 J
			SS417-054	2.63 J
			SS422-688	1.79
			SS4C002-2298	4.21
			SS4C003-2299	1.62
			SS4C004-2300	3.52
			SS4C005-2302	2.55
			SS4C006-2303	1.66
			SS4D005-619	3.25
			SS4D006-620	2.34
			SS4D009-625	2.04
			SS4D010-626	2
			SS4D011-627	2.67
			SS4D012-628	1.87
			SS4D013-629	2.4
			SS4D014-630	2.11
			SS4D015-631	2.97
			SS4D017-2306	3.47
			SS4D019-2308	2.4
			SS4D020-2309	2.24
			SS4F009-2315	1.77
			SS4G001-2316	1.92
			SS-DRUM02-3372	5.21
			SS-DRUM04-3378	2.26
			SS-DRUM05-3381	1.86 J
			SS-DRUM06-3395	1.73
			SS-DRUM07-3398	2.59
			SS-MW422-3608	1.8 J
			SS-MW423-3611	1.92
Total Uranium	μg/g	3.94	SS4C002-2298	7.43
			SS4C003-2299	5.19
			SS4C004-2300	4.15
			SS4D017-2306	3.97
			SS-DRUM07-3398	4.18
Uranium-234	pCi/g	1.68	SS4C002-2298	2.46
			SS4C003-2299	2.92
			SS4D012-628	1.69
			SS4D017-2306	1.85

* Data qualifier included with concentration value

Table 4-23
Exposure Unit 4
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.36	SS313-687	1.4
			SS422-688	1.7
			SS4C002-2298	2.47
			SS4C003-2299	2.2
			SS4C004-2300	1.74
			SS4D011-627	1.37
Semivolatile Organics				
Benzoic Acid	μg/Kg	--	SS4D008-623	498 J
			SS-DRUM04-3378	69 J
Volatile Organics				
1,1-Dichloroethene	μg/Kg	--	SS-DRUM07-3398	1.12 J
Acetone	μg/Kg	--	SS-DRUM06-3395	2.46 J
			SS-DRUM07-3398	6.56
			SS-MW422-3608	6.92
			SS-MW424-3620	4.21 J
Tetrachloroethene	μg/Kg	--	SS415-052	39.1
			SS418-055	10.8
			SS-DRUM02-3372	10
			SS-DRUM05-3381	1410
			SS-MW424-3620	3.92
Toluene	μg/Kg	--	SS-MW424-3620	0.46 J
Trichloroethene	μg/Kg	--	SS415-052	11.4
			SS-DRUM05-3381	71.4 J
			SS-MW424-3620	0.571 J

* Data qualifier included with concentration value

Table 4-24
Exposure Unit 5
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*	
Metals					
Aluminum	mg/Kg	18400	SS-EU051-3334	32400	E*
Barium	mg/Kg	279	SS-EU051-3334	441	*
Beryllium	mg/Kg	1	SS-EU051-3334	7.7	E*
Boron	mg/Kg	10.1	SS-EU051-3334	88.2	E*N
Cadmium	mg/Kg	0.53	SS421-058	0.91	
			SS605-697	0.751	
Calcium	mg/Kg	45200	SS-EU051-3334	179000	*
Chromium	mg/Kg	24.3	SS-EU051-3334	30.1	*N
Copper	mg/Kg	34.7	SS605-697	35.3	
			SS-EU051-3334	58.1	E*N
Lithium	mg/Kg	27.9	SS-EU051-3334	37.2	
Magnesium	mg/Kg	10200	SS421-058	11800	*
			SS-EU051-3334	12200	*
Potassium	mg/Kg	1820	SS421-058	2130	E
			SS-EU051-3334	4050	*
Selenium	mg/Kg	0.37	SS421-058	0.62	BN
			SS423-689	0.944	B
			SS601-065	0.56	B
			SS605-697	0.701	B
			SS-EU051-3334	2.35	
Sodium	mg/Kg	286	SS-EU051-3334	1210	E*
Thallium	mg/Kg	--	SS420-057	0.1	B
			SS421-058	0.14	
			SS601-065	0.15	
			SS811-080	0.13	
			SS-EU051-3334	0.105	BE
Zinc	mg/Kg	78	SS811-080	92.7	
PAHs					
Acenaphthylene	µg/Kg	--	SS-EU051-3334	96.2	
Benzo(b)fluoranthene	µg/Kg	396	SS-EU051-3334	561	
Benzo(g,h,i)perylene	µg/Kg	--	SS-EU051-3334	176	
Indeno(1,2,3-cd)pyrene	µg/Kg	--	SS-EU051-3334	283	
PCBs					
Aroclor-1254	µg/Kg	--	SS4F003-635	7.8	JP
			SS811-080	12	P
			SS-EU051-3334	4.2	
Aroclor-1260	µg/Kg	--	SS4F003-635	24.8	J
			SS811-080	17.6	
			SS-EU051-3334	5.3	
Pesticides					
4,4'-DDE	µg/Kg	--	SS4F003-635	2.6	P
4,4'-DDT	µg/Kg	--	SS4F003-635	5.4	

* Data qualifier included with concentration value

Table 4-24
Exposure Unit 5
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radionuclides				
Actinium-227	pCi/g	0.08	SS4G002-2365	1.33
			SS6A001-2317	14.2
Alpha	pCi/g	--	SD737-381	16
			SS420-057	15.6
			SS421-058	21
			SS601-065	11.3
			SS811-080	11.7
			SS-EU051-3334	14.6
Beta	pCi/g	--	SD737-381	24.6
			SS420-057	20.4
			SS421-058	24.9
			SS601-065	15.8
			SS811-080	18.3
			SS-EU051-3334	10.2
Cesium-137	pCi/g	0.343	SD737-381	0.607 J
			SS4F003-635	0.395
			SS4F005-2311	0.364
			SS4F007-2313	0.359
			SS601-065	0.406 J
			SS6A003-2320	0.375
			SS811-080	0.377 J
			SS8G005-2347	0.672
Radium-226	pCi/g	0.921	SD737-381	1.3
			SS420-057	2.35
			SS423-689	1.92
			SS4F003-635	1.23
			SS4F005-2311	1.13
			SS4F007-2313	1.1
			SS4G002-2365	43.9
			SS6A001-2317	285
			SS6A002-2319	1.04 J
			SS6A003-2320	2.24
			SS6A004-2321	1.07
			SS6A006-2325	1.34
			SS6A008-2328	1.02
			SS6A009-2329	0.95
			SS6A010-2364	3.39
			SS6B006-2336	1.05
			SS8G005-2347	1.1
			SS-EU051-3334	3.56

* Data qualifier included with concentration value

Table 4-24
Exposure Unit 5
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SS4F005-2311	1.7
			SS4F006-2312	1.89
			SS4G002-2365	8.51
			SS6A001-2317	8.73
			SS6A010-2364	2.69 J
			SS-EU051-3334	2.48
Total Uranium	μg/g	3.94	SS4G002-2365	4.09
			SS-EU051-3334	5
Uranium-234	pCi/g	1.68	SS-EU051-3334	2.37
Uranium-235	pCi/g	0.0847	SS6A001-2317	0.203
			SS6A009-2329	0.189
			SS6A010-2364	0.148 J
			SS-EU051-3334	0.447
Uranium-238	pCi/g	1.36	SS4G002-2365	1.77
			SS6A001-2317	1.38
			SS6A009-2329	1.83
			SS-EU051-3334	2.45
Volatile Organics				
1,1,1-Trichloroethane	μg/Kg	--	SS811-080	0.83 J
1,1-Dichloroethene	μg/Kg	--	SS-EU051-3334	0.648 J
2-Butanone	μg/Kg	--	SS420-057	5.1 J
Acetone	μg/Kg	--	SD737-381	1.5 J
			SS420-057	51.7
Benzene	μg/Kg	--	SS420-057	1.2
Carbon disulfide	μg/Kg	--	SS420-057	2.4 J
Tetrachloroethene	μg/Kg	--	SS811-080	1.3
Toluene	μg/Kg	--	SD737-381	0.27 J
			SS420-057	2.8
			SS811-080	2.1
Trichloroethene	μg/Kg	--	SS811-080	1 J
Xylenes (total)	μg/Kg	--	SS420-057	1 J
			SS811-080	0.8 J

* Data qualifier included with concentration value

Table 4-25
Exposure Unit 6
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Cadmium	mg/Kg	0.53	SD731-368	0.73
			SD732-370	0.86
			SD733-373	0.69 B
			SS825-713	0.744
Calcium	mg/Kg	45200	SD732-370	47200 E*
Copper	mg/Kg	34.7	SD732-370	35.6
Mercury	mg/Kg	0.27	SD732-370	0.35
Selenium	mg/Kg	0.37	SD732-370	2.2 N
			SD733-373	1.7 N
			SS604-069	2.3 B
			SS607-699	0.79 B
			SS825-713	0.558 B
			SS-EU061-3335	0.83 B
			SS-EU062-3336	0.767 B
Thallium	mg/Kg	--	SD732-370	0.31
			SD733-373	0.36
			SD734-375	0.23
			SS602-066	0.04 B
			SS603-068	0.07 B
			SS604-069	0.06 B
			SS812-084	0.1 B
			SS-EU061-3335	0.114 B
			SS-EU062-3336	0.129 E
Zinc	mg/Kg	78	SD734-375	199
PCBs				
Aroclor-1254	µg/Kg	--	SD731-368	5.9
			SD734-375	11.3 P
			SS825-713	6
Aroclor-1260	µg/Kg	--	SD732-370	10.5 J
			SD733-373	5.2 J
			SD734-375	12.2
			SS825-713	14.7
Pesticides				
4,4'-DDE	µg/Kg	--	SS825-713	1.2 JP
delta-BHC	µg/Kg	--	SS825-713	0.48 JP
Dieldrin	µg/Kg	--	SS825-713	0.45 JP
Radionuclides				
Actinium-227	pCi/g	0.08	SS606-698	18.9
			SS6B005-2335	1.6
			SS829-409	7.34
			SS-EU061-3335	0.579

* Data qualifier included with concentration value

Table 4-25
Exposure Unit 6
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	--	SD731-368	11.3
			SD732-370	11.5
			SD733-373	13.6
			SD734-375	7.05
			SS602-066	12.6
			SS603-068	15.8
			SS604-069	14.2
			SS812-084	12.2
			SS829-409	1390
			SS-EU061-3335	26.4
			SS-EU062-3336	12.1
Beta	pCi/g	--	SD731-368	32.4
			SD732-370	22.8
			SD733-373	17.3
			SD734-375	13
			SS602-066	18.7
			SS603-068	16.9
			SS604-069	20.2
			SS812-084	15.8
			SS829-409	739
			SS-EU061-3335	20.8
			SS-EU062-3336	19
Cesium-137	pCi/g	0.343	SD734-375	0.808 J
			SS6C001-2337	0.357
			SS6C003-2339	0.345
			SS829-409	0.848
			SS8G002-2344	0.435

* Data qualifier included with concentration value

Table 4-25
Exposure Unit 6
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SD732-370	1.21
			SD734-375	1.1
			SS606-698	103
			SS607-699	1.3
			SS6A005-2323	2.54
			SS6B001-2330	2.78
			SS6B003-2332	1.08
			SS6B004-2333	1.12
			SS6B005-2335	29.3
			SS6C001-2337	1.17
			SS6C005-2341	1.14
			SS6C006-2342	1.25
			SS812-084	0.942
			SS824-712	1.08
			SS825-713	1.07
			SS829-409	182
			SS8G001-2343	1.5
			SS8G002-2344	1.35
			SS-EU061-3335	4.1
Thorium-230	pCi/g	1.6	SS606-698	352
			SS6B005-2335	8.25
			SS829-409	5.29
			SS-EU061-3335	8.02
Total Uranium	μg/g	3.94	SS606-698	287
			SS6B005-2335	6.55
Uranium-234	pCi/g	1.68	SS606-698	42.5
			SS6B005-2335	2.42
Uranium-235	pCi/g	0.0847	SS604-069	0.13 J
			SS606-698	2.13
			SS6B001-2330	0.139
			SS6B005-2335	0.252
Uranium-238	pCi/g	1.36	SS606-698	41.5
			SS6B005-2335	2.62
			SS6C006-2342	1.61
Volatile Organics				
2-Butanone	μg/Kg	--	SS602-066	2.6 J
			SS603-068	12
2-Hexanone	μg/Kg	--	SS603-068	0.71 J
Acetone	μg/Kg	--	SD731-368	3.2 J
			SS602-066	27.2
			SS603-068	98.1
Benzene	μg/Kg	--	SS602-066	1.3
			SS603-068	1.4

* Data qualifier included with concentration value

Table 4-25
Exposure Unit 6
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Carbon disulfide	μg/Kg	--	SS602-066	2 J
			SS603-068	2.4 J
Methylene chloride	μg/Kg	--	SD731-368	7.1 JB
Toluene	μg/Kg	--	SD731-368	0.25 J
			SS602-066	1.2
			SS603-068	1.3
Xylenes (total)	μg/Kg	--	SS602-066	0.76 J

* Data qualifier included with concentration value

Table 4-26
Exposure Unit 7
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*	
Metals					
Antimony	mg/Kg	0.94	SS-EU071-3337	1.1	BN
			SS-TWP837-3521	1.52	BN
Boron	mg/Kg	10.1	SS-TWP838-3524	12.1	B
			SS-TWP840-3530	10.5	
Calcium	mg/Kg	45200	SS-TWP836-3518	48200	
			SS-TWP838-3524	46500	
Copper	mg/Kg	34.7	SD711-317	35.8	*N
Magnesium	mg/Kg	10200	SS-EU072-3338	15400	*
			SS-TWP836-3518	22800	
			SS-TWP838-3524	11700	
Potassium	mg/Kg	1820	SS-TWP836-3518	1840	*
			SS-TWP837-3521	2490	*
			SS-TWP838-3524	2880	
			SS-TWP840-3530	2470	E
Selenium	mg/Kg	0.37	SD711-317	1.1	
			SS806-075	1.3	B
			SS-EU071-3337	0.58	B
			SS-EU072-3338	0.594	B
			SS-TWP835-3515	2.46	N
			SS-TWP836-3518	2.38	N
			SS-TWP837-3521	2.46	N
			SS-TWP838-3524	0.371	B
			SS-TWP840-3530	1.42	N
Thallium	mg/Kg	--	SD711-317	0.093	B
			SS806-075	0.08	B
			SS807-076	0.06	B
			SS-EU071-3337	0.141	E
			SS-EU072-3338	0.11	BE
			SS-TWP835-3515	0.098	B
			SS-TWP836-3518	0.132	
			SS-TWP837-3521	0.158	
			SS-TWP838-3524	0.11	B
			SS-TWP840-3530	0.114	
Zinc	mg/Kg	78	SS-EU071-3337	96.8	E*N
			SS-EU072-3338	78.9	E*N
PAHs					
Benzo(g,h,i)perylene	μg/Kg	--	SS-EU071-3337	36.8	
			SS-EU072-3338	17.4	
			SS-TWP835-3515	10.3	h
Dibenzo(a,h)anthracene	μg/Kg	--	SS-TWP835-3515	2.77	h
Naphthalene	μg/Kg	--	SS-EU071-3337	17.3	J
			SS-TWP835-3515	2.99	Jh

* Data qualifier included with concentration value

Table 4-26
Exposure Unit 7
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
PCBs				
Aroclor-1260	µg/Kg	--	SS-EU071-3337	2.2 J
Pesticides				
4,4'-DDE	µg/Kg	--	SS-EU072-3338	0.387 J
			SS-TWP835-3515	1.33 J
			SS-TWP837-3521	0.655 J
			SS-TWP838-3524	0.681 J
			SS-TWP840-3530	0.438 J
4,4'-DDT	µg/Kg	--	SS-TWP835-3515	1.82
			SS-TWP836-3518	1.18 J
			SS-TWP837-3521	1.24 J
			SS-TWP838-3524	0.506 J
Radionuclides				
Actinium-227	pCi/g	0.08	SD748-2153	3.6
			SD750-2155	4.29
			SS821-709	0.341
			SS8D003-2190	3.3
			SS8D004-2191	3.5 J
			SS8D006-2193	0.782
			SS8D007-2195	1.32
			SS8D009-2197	24
Alpha	pCi/g	--	SD711-317	66.4
			SD743-675	26.5
			SD744-676	13.9
			SD745-677	48.4
			SS806-075	21.1
			SS807-076	19.8
			SS-EU071-3337	6.54
			SS-EU072-3338	13.8
			SS-TWP835-3515	8.35
			SS-TWP836-3518	13.3
			SS-TWP837-3521	8.93
			SS-TWP838-3524	7.39
			SS-TWP840-3530	9.28

* Data qualifier included with concentration value

Table 4-26
Exposure Unit 7
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	--	SD711-317	38.3
			SD743-675	30.4
			SD744-676	29.1
			SD745-677	44.1
			SS806-075	28.8
			SS807-076	23.9
			SS-EU071-3337	12.8
			SS-EU072-3338	16.1
			SS-TWP835-3515	14.4
			SS-TWP836-3518	19.8
			SS-TWP837-3521	19.7
			SS-TWP838-3524	26.4
			SS-TWP840-3530	22.3
Cesium-137	pCi/g	0.343	SD748-2153	0.428
			SS8D003-2190	1.07
Radium-226	pCi/g	0.921	SD711-317	16
			SD744-676	2.4
			SD745-677	1.52
			SD748-2153	58.6
			SD749-2154	1.05
			SD750-2155	75.7
			SS806-075	1.27
			SS807-076	1.7
			SS820-708	2.19
			SS821-709	1.13
			SS8C001-2184	1.86
			SS8C002-2185	1.12
			SS8C004-2187	0.939
			SS8D003-2190	45.5
			SS8D004-2191	42.2 J
			SS8D005-2192	0.942
			SS8D006-2193	13.4
			SS8D007-2195	14.9
			SS8D008-2196	0.998
			SS8D009-2197	446
			SS8E001-2198	1.27
			SS-EU072-3338	1.46
			SS-TWP836-3518	1.03
			SS-TWP840-3530	0.952

* Data qualifier included with concentration value

Table 4-26
Exposure Unit 7
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SD711-317	11.4
			SD743-675	2.12
			SD745-677	8.96
			SD748-2153	71.4
			SD750-2155	109
			SS806-075	1.92
			SS820-708	3.13
			SS8C001-2184	1.98
			SS8D003-2190	8.94
			SS8D004-2191	58.8 J
			SS8D006-2193	14.1
			SS8D007-2195	9.04
			SS8D009-2197	536
			SS8E001-2198	1.66
			SS-EU071-3337	1.74
			SS-EU072-3338	2.52
			SS-TWP835-3515	1.69
			SS-TWP836-3518	2.01
			SS-TWP837-3521	1.62
Thorium-232	pCi/g	1.24	SS8D009-2197	1.7
			SS-TWP835-3515	1.3
Total Uranium	μg/g	3.94	SD748-2153	5.11
			SD750-2155	8.04
			SS8D002-2189	5.61
			SS8D003-2190	5.71
			SS8D004-2191	5.42
			SS8D007-2195	10.9
			SS8D009-2197	19
Uranium-234	pCi/g	1.68	SD748-2153	2.73
			SD750-2155	4.01
			SS806-075	1.77
			SS820-708	1.95
			SS8D003-2190	1.75
			SS8D004-2191	2.31 J
			SS8D007-2195	2.34
			SS8D009-2197	9.68
Uranium-235	pCi/g	0.0847	SD749-2154	0.17
			SD750-2155	0.152
			SS8C002-2185	0.106
			SS8D003-2190	0.15
			SS8D007-2195	0.142
			SS8D009-2197	0.394

* Data qualifier included with concentration value

Table 4-26
Exposure Unit 7
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.36	SD743-675	1.49
			SD748-2153	1.9
			SD750-2155	2.58
			SS820-708	1.65
			SS821-709	1.38
			SS8D003-2190	1.63
			SS8D004-2191	1.85 J
			SS8D007-2195	2.11
			SS8D009-2197	7.1
			SS-EU071-3337	1.66
Volatile Organics				
1,1-Dichloroethene	µg/Kg	--	SS-TWP835-3515	0.714 J
			SS-TWP837-3521	0.9 J
			SS-TWP840-3530	1.02
2-Butanone	µg/Kg	--	SS-TWP838-3524	71.9
			SS-TWP840-3530	9.19
Acetone	µg/Kg	--	SS806-075	69.4
			SS-TWP838-3524	8.22
			SS-TWP840-3530	16.2
Benzene	µg/Kg	--	SS806-075	2
			SS807-076	2.6
Carbon disulfide	µg/Kg	--	SS806-075	1.6 J
Toluene	µg/Kg	--	SS806-075	3.2
			SS807-076	3.4

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	18400	SD725-353	20600
Beryllium	mg/Kg	1	SD725-353	1.1 B
			SS308-032	1.6
Boron	mg/Kg	10.1	SD725-353	16
			SS311-035	10.8
			SS-EU081-3339	16.5 E*N
			SS-MW313-3590	14.4 N
Cadmium	mg/Kg	0.53	SD723-349	1.2
			SS304-028	0.87
			SS306-030	0.68
			SS308-032	0.56 B
			SS311-035	0.65 B
Calcium	mg/Kg	45200	SS308-032	99000
			SS309-033	50600
			SS311-035	90600
			SS-MW313-3590	70600 *
Chromium	mg/Kg	24.3	SD723-349	26.6 E
			SD725-353	42.4
Copper	mg/Kg	34.7	SD723-349	38.9 E
			SD725-353	59.2
			SS302-026	36.3
			SS303-027	36.2
			SS308-032	52.3
			SS309-033	36.6
			SS-MW313-3590	129 *
			SS-MW314-3593	36.8 *
Lead	mg/Kg	55.2	SS308-032	99.8 N
			SS311-035	72 *
Lithium	mg/Kg	27.9	SD725-353	40.5
			SS-MW314-3593	29.5
Magnesium	mg/Kg	10200	SD725-353	14400
			SS303-027	11000
			SS304-028	11800 *
			SS308-032	49300
			SS309-033	12900
			SS311-035	54400
			SS-MW313-3590	38200 *
Nickel	mg/Kg	37.5	SD725-353	42.5

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Potassium	mg/Kg	1820	SD725-353	3190
			SS303-027	2350
			SS304-028	2330 E
			SS309-033	3060 E
			SS-EU081-3339	2430 *
			SS-MW313-3590	1930 *
			SS-MW314-3593	1830 *
Selenium	mg/Kg	0.37	SD723-349	1.3 B
			SD724-351	1.4 B
			SD725-353	1.8 B
			SS302-026	1.1
			SS303-027	0.85 B
			SS304-028	1 BN
			SS306-030	0.52 B
			SS308-032	1.1 N
			SS309-033	0.81 BN
			SS310-034	0.99
			SS311-035	1.6
			SS-EU081-3339	0.378 B
			SS-MW313-3590	0.545 B
			SS-MW314-3593	0.702 B
Sodium	mg/Kg	286	SD725-353	292
			SS308-032	356 E
Thallium	mg/Kg	--	SD725-353	0.27
			SS302-026	0.07 B
			SS303-027	0.13
			SS304-028	0.11 B
			SS306-030	0.13 B
			SS307-031	0.09 B
			SS308-032	0.16
			SS309-033	0.08 B
			SS310-034	0.099 B
			SS311-035	0.15
			SS-EU081-3339	0.129 E
			SS-MW313-3590	0.188 E
			SS-MW314-3593	0.191 E
Vanadium	mg/Kg	34	SD725-353	43.3
Zinc	mg/Kg	78	SD723-349	212 E
			SD725-353	227
			SS308-032	208
			SS311-035	186
			SS-MW313-3590	92.6 N*
Nitroaromatics				
2-Nitrotoluene	μg/Kg	--	SS308-032	109

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
PAHs				
Acenaphthene	µg/Kg	--	SS308-032	5290
			SS3C007-590	3750 J
			SS3C008-591	13300 J
			SS-EU081-3339	16.5 J
Anthracene	µg/Kg	--	SS308-032	9140
			SS309-033	1590 J
			SS3C003-586	216 J
			SS3C007-590	7280
			SS3C008-591	24700
Benzo(a)anthracene	µg/Kg	284	SS308-032	28900 D
			SS309-033	3190
			SS3C002-585	353 J
			SS3C006-589	4750 J
			SS3C007-590	33300 D
			SS3C008-591	73300
			SS3C011-594	16800 J
Benzo(a)pyrene	µg/Kg	313	SS308-032	33600 D
			SS309-033	3080
			SS311-035	540 J
			SS3C002-585	408 J
			SS3C006-589	4100 J
			SS3C007-590	34000 D
			SS3C008-591	82500
			SS3C011-594	14900 J
Benzo(b)fluoranthene	µg/Kg	396	SS308-032	31500 D
			SS309-033	3430
			SS3C002-585	469
			SS3C006-589	5960 J
			SS3C007-590	37700 D
			SS3C008-591	42800 D
			SS3C011-594	20200 J
Benzo(g,h,i)perylene	µg/Kg	--	SS308-032	22500 D
			SS309-033	1860
			SS3C002-585	253 J
			SS3C007-590	22400 D
			SS3C008-591	54100
			SS3C011-594	12600 J
			SS-EU081-3339	45.7
			SS-MW313-3590	55.6

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzo(k)fluoranthene	μg/Kg	322	SS308-032	25900 D
			SS309-033	2280
			SS3C002-585	351 J
			SS3C007-590	31000 D
			SS3C008-591	62900
Chrysene	μg/Kg	378	SS308-032	29400 D
			SS309-033	3100
			SS3C002-585	379 J
			SS3C006-589	4620 J
			SS3C007-590	35700 D
			SS3C008-591	76000
			SS3C011-594	16300 J
Dibenzo(a,h)anthracene	μg/Kg	--	SS308-032	4780
			SS309-033	830 J
			SS3C007-590	9640 JD
			SS3C008-591	22500
			SS-MW313-3590	21
Fluoranthene	μg/Kg	889	SS308-032	81500 D
			SS309-033	9650
			SS3C002-585	919
			SS3C006-589	11400
			SS3C007-590	80000 D
			SS3C008-591	92400 D
			SS3C011-594	39200
Fluorene	μg/Kg	--	SS308-032	4020
			SS309-033	711 J
			SS3C001-584	950 J
			SS3C006-589	4830 J
			SS3C007-590	2630 J
			SS3C008-591	8830 J
			SS3C011-594	15200 J
			SS3C012-596	244 J
			SS3C013-597	226 J

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Indeno(1,2,3-cd)pyrene	µg/Kg	--	SS308-032	13800
			SS309-033	1740
			SS3B001-573	2280 J
			SS3C001-584	992 J
			SS3C002-585	220 J
			SS3C006-589	5990 J
			SS3C007-590	19400 D
			SS3C008-591	43600
			SS3C011-594	21200 J
			SS3C012-596	328 J
			SS3C013-597	205 J
			SS-EU081-3339	48.1
Naphthalene	µg/Kg	--	SS311-035	181 J
			SS312-036	56.8 J
			SS3A006-561	235 J
			SS-EU081-3339	9.37 J
			SS-MW313-3590	12.6 JP
Phenanthrene	µg/Kg	538	SS308-032	61800 D
			SS309-033	8550
			SS3C002-585	733
			SS3C006-589	8230
			SS3C007-590	57800 D
			SS3C008-591	71600 D
			SS3C011-594	26500
Pyrene	µg/Kg	716	SS308-032	53600 E
			SS3C002-585	940
			SS3C006-589	9810
			SS3C007-590	88000 D
			SS3C008-591	99700 D
			SS3C011-594	33600
PCBs				
Aroclor-1260	µg/Kg	--	SS303-027	17.2
			SS309-033	5.5
			SS311-035	20.8
			SS-MW314-3593	4.6 h
Pesticides				
4,4'-DDE	µg/Kg	--	SD723-349	1.8 J
			SS311-035	13.3
			SS-EU081-3339	0.538 J
			SS-MW314-3593	3.08
4,4'-DDT	µg/Kg	--	SS311-035	18.9
			SS-EU081-3339	1.29 J
			SS-MW314-3593	1.88
Radionuclides				

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Actinium-227	pCi/g	0.08	SS314-404	2.28
			SS3A016-572	0.487
			SS3A021-2392	1.43
			SS3A023-2394	1.29
			SS3A024-2395	0.98
			SS3B011-2398	0.758
			SS3C014-2411	1.44
			SS3C015-2412	1.89
			SS3D001-2414	1.24
			SS3D004-2418	2.98
			SS3D006-2420	3.07
			SS-MW313-3590	0.507
Alpha	pCi/g	--	SD723-349	18.1
			SD724-351	20.2
			SD725-353	21.9
			SS301-025	20.6
			SS302-026	15.4
			SS303-027	15.3
			SS304-028	20.9
			SS305-029	16.8
			SS306-030	20.8
			SS307-031	14.3
			SS308-032	84.8
			SS309-033	32.9
			SS310-034	15.2
			SS311-035	56.3
			SS312-036	55.8
			SS314-404	172
			SS-EU081-3339	13.3
			SS-MW313-3590	35.3
			SS-MW314-3593	14

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	--	SD723-349	26
			SD724-351	23.8
			SD725-353	31.1
			SS301-025	33.9
			SS302-026	19.9
			SS303-027	24.8
			SS304-028	20.4
			SS305-029	21.1
			SS306-030	22.4
			SS307-031	21.3
			SS308-032	47.6
			SS309-033	34.2
			SS310-034	23.1
			SS311-035	37.6
			SS312-036	43.5
			SS314-404	94.2
			SS-EU081-3339	23
			SS-MW313-3590	36.1
			SS-MW314-3593	21.6

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/g	0.343	SS306-030	0.619 J
			SS314-404	1.22
			SS3A001-555	0.602
			SS3A002-556	0.611
			SS3A003-557	0.52
			SS3A004-559	0.399
			SS3A005-560	0.474
			SS3A006-561	0.773
			SS3A007-562	0.852
			SS3A013-569	0.579
			SS3A016-572	0.565
			SS3A017-2162	0.719
			SS3A020-2389	0.612
			SS3A021-2392	0.842
			SS3A023-2394	0.806
			SS3B002-575	0.458
			SS3B003-576	0.894
			SS3B004-577	0.557
			SS3B005-578	0.352
			SS3B007-580	0.414
			SS3B010-583	0.515
			SS3B011-2398	1.08
			SS3C001-584	0.466
			SS3C002-585	0.586
			SS3C003-586	0.4
			SS3C004-587	0.448
			SS3C005-588	0.47
			SS3C006-589	0.484
			SS3C007-590	0.903
			SS3C008-591	0.574
			SS3C014-2411	0.468
			SS3C015-2412	0.548
			SS3C016-2413	0.393
			SS3D001-2414	2.23
			SS3D002-2415	3
			SS3D009-2423	0.366
			SS-MW313-3590	0.443
			SS-MW314-3593	0.363

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SD723-349	1.55
			SD725-353	1.16
			SEDC06-08-2146	5.95
			SS303-027	3.84
			SS304-028	1.61
			SS305-029	1.27
			SS306-030	1.17
			SS308-032	3.56
			SS309-033	2.58
			SS310-034	1.56
			SS311-035	6.58
			SS312-036	7.49
			SS314-404	55.4
			SS3A001-555	2.57
			SS3A002-556	4.06
			SS3A003-557	3.2
			SS3A004-559	2.67
			SS3A005-560	3.87
			SS3A006-561	6.31
			SS3A007-562	5.5
			SS3A008-563	2.26
			SS3A009-565	2.86
			SS3A010-566	2.35
			SS3A011-567	1.77
			SS3A012-568	1.97
			SS3A013-569	5.51
			SS3A014-570	1.06
			SS3A015-571	1.13
			SS3A016-572	4.21
			SS3A017-2162	15.1
			SS3A020-2389	8.54
			SS3A021-2392	21
			SS3A022-2393	1.48
			SS3A023-2394	17.6
			SS3A024-2395	10.7
			SS3A025-2397	2.6
			SS3B001-573	1.07
			SS3B002-575	2.05
			SS3B003-576	7.91
			SS3B004-577	4.16
			SS3B005-578	2.94
			SS3B007-580	2.96
			SS3B008-581	0.971
			SS3B010-583	2.84

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SS3B011-2398	12.5
			SS3B012-2401	1.79
			SS3B013-2402	5.7
			SS3B014-2404	1.7
			SS3B015-2405	12.4
			SS3B016-2406	2.32
			SS3B017-2407	2.61
			SS3B018-2409	1.4
			SS3B019-2410	1.24
			SS3C001-584	1.95
			SS3C002-585	2.31
			SS3C003-586	1.51
			SS3C004-587	1.86
			SS3C005-588	1.98
			SS3C006-589	2.65
			SS3C007-590	2.5
			SS3C008-591	1.8
			SS3C011-594	1.36
			SS3C012-596	2.19
			SS3C013-597	1.58
			SS3C014-2411	13.4
			SS3C015-2412	19.6
			SS3C016-2413	1.94
			SS3D001-2414	19.3
			SS3D002-2415	2.03
			SS3D004-2418	50.2
			SS3D006-2420	82.1
			SS3D007-2421	7.3
			SS3D008-2422	1.43 J
			SS3D009-2423	1.77
			SS-MW313-3590	4.51
			SS-MW314-3593	1.42
Thorium-228	pCi/g	1.64	SS3A002-556	1.86
			SS-MW313-3590	1.66

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SD723-349	2.1 J
			SEDC06-08-2146	4.86
			SS303-027	3.48 J
			SS304-028	1.8 J
			SS306-030	1.87 J
			SS308-032	14.2
			SS309-033	5.64
			SS310-034	1.92 J
			SS311-035	15.6
			SS312-036	10.3
			SS314-404	15.8
			SS3A001-555	2.45
			SS3A002-556	7.36
			SS3A003-557	4.18
			SS3A004-559	5.17
			SS3A005-560	7.79
			SS3A006-561	9.35
			SS3A007-562	8.82
			SS3A008-563	2.33
			SS3A009-565	3.21
			SS3A010-566	3.69
			SS3A011-567	2.61
			SS3A012-568	2.25
			SS3A013-569	7.3
			SS3A016-572	5.79
			SS3A017-2162	7.59
			SS3A021-2392	21.8
			SS3A023-2394	11.5
			SS3A024-2395	8.85
			SS3A025-2397	3.87
			SS3B001-573	2.15
			SS3B002-575	3.32
			SS3B003-576	8.65
			SS3B004-577	6.88
			SS3B005-578	3.24
			SS3B007-580	3.09
			SS3B010-583	5.68
			SS3B011-2398	16.9
			SS3B012-2401	2.75
			SS3B013-2402	12.5
			SS3B014-2404	2.71
			SS3B015-2405	9.85
			SS3B016-2406	3.47
			SS3B017-2407	3.09

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SS3B018-2409	1.94
			SS3B019-2410	2.42
			SS3C001-584	3.61
			SS3C002-585	4.23
			SS3C003-586	2.94
			SS3C004-587	2.72
			SS3C005-588	5.23
			SS3C006-589	10.7
			SS3C007-590	10.8
			SS3C008-591	1.83
			SS3C009-592	1.71
			SS3C011-594	1.86
			SS3C012-596	2.44
			SS3C013-597	2.9
			SS3C014-2411	10.1
			SS3C015-2412	87.9
			SS3C016-2413	3.12
			SS3D001-2414	11.2
			SS3D002-2415	2.24
			SS3D004-2418	7.87
			SS3D006-2420	32.9
			SS3D007-2421	7.54
			SS3D008-2422	2.05 J
			SS3D009-2423	2.25
			SS-MW313-3590	3.07
			SS-MW314-3593	2.89
Thorium-232	pCi/g	1.24	SS3B010-583	1.25
			SS-MW314-3593	1.48

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	μg/g	3.94	SD725-353	5.06
			SS303-027	4.81 J
			SS306-030	4.2 J
			SS308-032	10.4
			SS311-035	5.33
			SS314-404	5.77
			SS3A003-557	4.24
			SS3A004-559	12.1
			SS3A005-560	9.12
			SS3A007-562	4.26
			SS3A012-568	4.26
			SS3A013-569	3.95
			SS3A015-571	4.6
			SS3A016-572	5.36
			SS3A021-2392	4.8
			SS3A024-2395	4.63
			SS3B001-573	4.77
			SS3B003-576	6.25
			SS3B004-577	5.39
			SS3B005-578	5.44
			SS3B007-580	7.17
			SS3B010-583	5.62
			SS3B011-2398	5.51
			SS3B014-2404	4.4
			SS3B015-2405	16.9
			SS3B016-2406	4.07
			SS3C002-585	4.19
			SS3C005-588	12.4
			SS3C006-589	5.71
			SS3C007-590	9.41
			SS3C010-593	20.9
			SS3C011-594	6.46
			SS3C014-2411	15.4
			SS3C015-2412	330
			SS3D001-2414	6.02
			SS3D004-2418	4.31
			SS3D005-2419	6.72
			SS3D006-2420	1270
			SS3D007-2421	5630
			SS3D008-2422	15
			SS3D009-2423	20.2

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.68	SEDC06-08-2146	2.04
			SS303-027	2.72
			SS308-032	3.66
			SS311-035	1.9
			SS312-036	2.25
			SS314-404	2.98
			SS3A002-556	2.34
			SS3A004-559	2.93
			SS3A005-560	9.03
			SS3A006-561	1.78
			SS3A013-569	2.36
			SS3A016-572	2.01
			SS3B001-573	2.39
			SS3B003-576	2.23
			SS3B004-577	2.59
			SS3B005-578	2.15
			SS3B007-580	2.9
			SS3B010-583	3.42
			SS3B011-2398	2.16
			SS3B013-2402	2.35
			SS3B014-2404	3.67
			SS3B015-2405	7.19
			SS3C002-585	2.09
			SS3C005-588	1.83
			SS3C006-589	2.25
			SS3C007-590	3.89
			SS3C014-2411	8.5
			SS3C015-2412	64.6
			SS3C016-2413	1.98
			SS3D001-2414	2.4
			SS3D002-2415	2.14
			SS3D005-2419	3.45
			SS3D006-2420	371
			SS3D007-2421	1420
			SS3D008-2422	5.02 J
			SS3D009-2423	7.83
			SS-MW313-3590	2.59
			SS-MW314-3593	2.02

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/g	0.0847	SS303-027	0.214 J
			SS306-030	0.124 J
			SS308-032	0.102 J
			SS311-035	0.0862 J
			SS3A005-560	0.329
			SS3A006-561	0.186
			SS3A007-562	0.206
			SS3A021-2392	0.209
			SS3A022-2393	0.168
			SS3B012-2401	0.152
			SS3B015-2405	0.403
			SS3B019-2410	0.26
			SS3C013-597	0.363
			SS3C014-2411	0.433
			SS3C015-2412	2.94
			SS3D001-2414	0.233
			SS3D002-2415	0.283
			SS3D004-2418	0.25
			SS3D005-2419	0.237
			SS3D006-2420	21.1
			SS3D007-2421	96.2
			SS3D008-2422	0.697 J
			SS3D009-2423	0.44
			SS-MW314-3593	0.39

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.36	SD725-353	1.49
			SEDC06-08-2146	3.52
			SS303-027	2.42
			SS306-030	1.48
			SS308-032	3.42
			SS311-035	1.75
			SS312-036	2.09
			SS314-404	2.37
			SS3A002-556	1.62
			SS3A004-559	4
			SS3A005-560	9.23
			SS3A006-561	1.85
			SS3A007-562	1.52
			SS3A013-569	1.42
			SS3A015-571	1.41
			SS3A020-2389	1.89
			SS3A021-2392	1.47
			SS3A022-2393	1.37
			SS3A024-2395	1.92
			SS3B001-573	2.46
			SS3B003-576	2.49
			SS3B004-577	2.17
			SS3B005-578	1.78
			SS3B007-580	2.49
			SS3B008-581	1.51
			SS3B010-583	2.46
			SS3B011-2398	1.81
			SS3B012-2401	1.65
			SS3B013-2402	2.33
			SS3B014-2404	3.34
			SS3B015-2405	7.86
			SS3B016-2406	1.98
			SS3C002-585	1.56
			SS3C005-588	1.96
			SS3C006-589	2.44
			SS3C007-590	4.03
			SS3C008-591	1.94
			SS3C011-594	1.5
			SS3C014-2411	7.69
			SS3C015-2412	65.9
			SS3C016-2413	1.71
			SS3D001-2414	2.37
			SS3D005-2419	3.77
			SS3D006-2420	373

* Data qualifier included with concentration value

Table 4-27
Exposure Unit 8
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.36	SS3D007-2421	1420
			SS3D008-2422	4.7 J
			SS3D009-2423	7.52
			SS-EU081-3339	1.73
			SS-MW313-3590	2.3
			SS-MW314-3593	1.52
Semivolatile Organics				
2-Methylnaphthalene	μg/Kg	--	SS311-035	269 J
			SS312-036	73.4 J
			SS3A006-561	354 J
Carbazole	μg/Kg	--	SS308-032	6580
			SS309-033	1140 J
			SS3C007-590	9940 JD
			SS3C008-591	20000
Volatile Organics				
1,1-Dichloroethene	μg/Kg	--	SS-MW314-3593	1.4
Acetone	μg/Kg	--	SS-MW314-3593	13.7
Chloroform	μg/Kg	--	SEDC05-06-2470	0.45 J
Tetrachloroethene	μg/Kg	--	SS303-027	0.84 J
Toluene	μg/Kg	--	SD723-349	0.21 J
			SS310-034	5.7
			SS311-035	0.33 J

* Data qualifier included with concentration value

Table 4-28
Exposure Unit 10
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	18400	SD701-293	20600
			SS-MW863-3605	18700 J
			SS-TWP844-3542	20600
			SS-TWP851-3563	21900 *
			SS-TWP852-3566	19500
			SS-TWP854-3572	19900
			SS-TWP855-3575	18500
			SS-TWP856-3578	18800
			SS-TWP857-3581	18500
Antimony	mg/Kg	0.94	SS-MW861-3599	0.951 BN
			SS-MW862-3602	2.59 BN*
			SS-MW863-3605	3.92 J
			SS-TWP834-3512	1.34 N
			SS-TWP839-3527	1.01 BN
			SS-TWP844-3542	2.09 BN*
			SS-TWP850-3560	2.35 BN
			SS-TWP851-3563	1.39 BN
			SS-TWP857-3581	1.87 BN
Beryllium	mg/Kg	1	SD701-293	1.1
			SS-TWP852-3566	1.04 B
Boron	mg/Kg	10.1	SS-EU101-3343	11.7 N
			SS-EU102-3344	12.5 N
			SS-EU113-3348	14.8
			SS-TWP831-3503	12.1 B
			SS-TWP832-3506	11.4 N*
			SS-TWP833-3509	12.8
			SS-TWP834-3512	12.9
			SS-TWP850-3560	11.3 B
			SS-TWP852-3566	14.4 B
			SS-TWP854-3572	13.6 B
			SS-TWP855-3575	11.8 B
			SS-TWP858-3584	13.6
			SS-TWP859-3587	12.8
Cadmium	mg/Kg	0.53	SS-MW863-3605	0.623 J

* Data qualifier included with concentration value

Table 4-28
Exposure Unit 10
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Calcium	mg/Kg	45200	SD702-295	54300
			SS-EU113-3348	51700 *
			SS-TWP830-3500	104000 *
			SS-TWP831-3503	46000
			SS-TWP834-3512	47200
			SS-TWP852-3566	45500
			SS-TWP853-3569	110000
			SS-TWP854-3572	47200
			SS-TWP855-3575	46300
			SS-TWP858-3584	49700
			SS-TWP859-3587	86900
Chromium	mg/Kg	24.3	SD701-293	26.8
			SS-MW861-3599	25.4
			SS-MW863-3605	24.9 J
			SS-TWP833-3509	25.1
			SS-TWP851-3563	26.4
			SS-TWP852-3566	27.9
			SS-TWP854-3572	26.8
			SS-TWP855-3575	25.2
Copper	mg/Kg	34.7	SD701-293	37
			SS-EU103-3345	40
			SS-MW862-3602	35.6
Iron	mg/Kg	36400	SD701-293	38800
Lithium	mg/Kg	27.9	SD702-295	28.7
			SS-TWP831-3503	29.5 N
			SS-TWP833-3509	31.6
			SS-TWP844-3542	29.8 E
			SS-TWP851-3563	31.6 E
			SS-TWP852-3566	34.4 E
			SS-TWP853-3569	30.2 E
			SS-TWP856-3578	30.6 N
			SS-TWP857-3581	33.4 N
			SS-TWP858-3584	28.2

* Data qualifier included with concentration value

Table 4-28
Exposure Unit 10
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Magnesium	mg/Kg	10200	SD702-295	22100
			SS-EU102-3344	14000
			SS-EU113-3348	10400
			SS-TWP830-3500	56300 *
			SS-TWP831-3503	11300
			SS-TWP832-3506	13900 *
			SS-TWP834-3512	15100
			SS-TWP850-3560	11400
			SS-TWP852-3566	12600
			SS-TWP853-3569	46700
			SS-TWP854-3572	16700
			SS-TWP855-3575	11300
			SS-TWP858-3584	11300
			SS-TWP859-3587	45800
Potassium	mg/Kg	1820	SD701-293	2200 E
			SS-EU101-3343	2940 E
			SS-EU102-3344	3120 E
			SS-EU103-3345	2440 E
			SS-EU113-3348	3010 N
			SS-MW861-3599	2050
			SS-MW862-3602	2530
			SS-MW863-3605	2180 J
			SS-TWP831-3503	2980
			SS-TWP832-3506	3500 *
			SS-TWP833-3509	3180
			SS-TWP834-3512	3210
			SS-TWP844-3542	1980
			SS-TWP850-3560	3160 *
			SS-TWP851-3563	2750 *
			SS-TWP852-3566	2890
			SS-TWP854-3572	3190
			SS-TWP855-3575	2660
			SS-TWP856-3578	2230
			SS-TWP857-3581	2360
			SS-TWP858-3584	3570
			SS-TWP859-3587	2800

* Data qualifier included with concentration value

Table 4-28
Exposure Unit 10
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SD701-293	0.76 BN
			SD702-295	1.2 B
			SD703-297	1.1
			SS102-685	0.99 B
			SS103-686	0.834 B
			SS-EU103-3345	0.551 B
			SS-EU113-3348	0.643 B
			SS-MW861-3599	2.16 N
			SS-MW862-3602	2.02
			SS-MW863-3605	2.58 J
			SS-TWP831-3503	0.375 B
			SS-TWP833-3509	0.447 B
			SS-TWP839-3527	0.402 B
			SS-TWP844-3542	1.92
			SS-TWP850-3560	2.13 N
			SS-TWP851-3563	2.76 N
			SS-TWP854-3572	0.405 B
			SS-TWP856-3578	0.477 B
			SS-TWP858-3584	0.579 B
			SS-TWP859-3587	0.438 B

* Data qualifier included with concentration value

Table 4-28
Exposure Unit 10
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SD701-293	0.1 B
			SD702-295	0.15 B
			SD703-297	0.12 B
			SS102-685	0.221 B
			SS103-686	0.147 B
			SS-EU101-3343	0.109 B
			SS-EU102-3344	0.109 B
			SS-EU103-3345	0.103 B
			SS-EU113-3348	0.125 B
			SS-MW861-3599	0.153
			SS-MW862-3602	0.124 E
			SS-MW863-3605	0.199
			SS-TWP830-3500	0.14
			SS-TWP831-3503	0.131
			SS-TWP832-3506	0.13
			SS-TWP833-3509	0.142 E
			SS-TWP834-3512	0.13 E
			SS-TWP839-3527	0.14
			SS-TWP844-3542	0.149 E
			SS-TWP850-3560	0.139
			SS-TWP851-3563	0.148
			SS-TWP852-3566	0.129
			SS-TWP853-3569	0.141
			SS-TWP854-3572	0.096 B
			SS-TWP855-3575	0.163
			SS-TWP856-3578	0.13
			SS-TWP857-3581	0.129
			SS-TWP858-3584	0.135 E
			SS-TWP859-3587	0.148 E
Vanadium	mg/Kg	34	SD701-293	39.8
			SS-EU103-3345	34.9 N
			SS-TWP831-3503	35.2
			SS-TWP832-3506	34.3 *N
			SS-TWP833-3509	36.7
			SS-TWP834-3512	34.4
			SS-TWP844-3542	34.5 N
			SS-TWP851-3563	39
			SS-TWP852-3566	37.9
			SS-TWP854-3572	39
			SS-TWP855-3575	37.3
			SS-TWP856-3578	36.7
			SS-TWP857-3581	35.5
			SS-TWP858-3584	36.4

* Data qualifier included with concentration value

Table 4-28
Exposure Unit 10
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Zinc	mg/Kg	78	SD701-293	81
			SD702-295	830
			SD703-297	158
			SS-EU102-3344	81.9
			SS-MW861-3599	341 E
			SS-MW863-3605	348 J
			SS-TWP854-3572	80.6
PAHs				
Acenaphthene	μg/Kg	--	SS-MW861-3599	10.9 J
			SS-MW863-3605	13.7 J
Anthracene	μg/Kg	--	SS-MW861-3599	136
			SS-MW863-3605	40.2
			SS-TWP831-3503	8.46 J
Benzo(a)anthracene	μg/Kg	284	SS-MW861-3599	900
Benzo(a)pyrene	μg/Kg	313	SS-MW861-3599	691
Benzo(b)fluoranthene	μg/Kg	396	SS-MW861-3599	1280
Benzo(g,h,i)perylene	μg/Kg	--	SS-MW861-3599	300
			SS-MW863-3605	115
			SS-TWP830-3500	8.44
			SS-TWP831-3503	14.4
			SS-TWP832-3506	1.47 J
			SS-TWP833-3509	6.03
			SS-TWP834-3512	3.88
			SS-TWP850-3560	3.75
			SS-TWP851-3563	1.93 Ph
			SS-TWP856-3578	2.99
			SS-TWP858-3584	2.77
			SS-TWP859-3587	2.88
Chrysene	μg/Kg	378	SS-MW861-3599	1010
Dibenzo(a,h)anthracene	μg/Kg	--	SS-MW861-3599	6.8
			SS-TWP831-3503	2.87
			SS-TWP858-3584	1.43 J
Fluoranthene	μg/Kg	889	SS-MW861-3599	1760
Fluorene	μg/Kg	--	SS-MW861-3599	30.7 J
			SS-MW862-3602	7.21 J
			SS-MW863-3605	19.1 J
Indeno(1,2,3-cd)pyrene	μg/Kg	--	SS-MW861-3599	387
			SS-MW862-3602	42.4
			SS-MW863-3605	70.9
Phenanthrene	μg/Kg	538	SS-MW861-3599	624
Pyrene	μg/Kg	716	SS-MW861-3599	1420
PCBs				

* Data qualifier included with concentration value

Table 4-28
Exposure Unit 10
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aroclor-1260	μg/Kg	--	SS-EU102-3344	2.13 J
			SS-MW863-3605	3.3 J
			SS-TWP833-3509	4.4
Pesticides				
4,4'-DDE	μg/Kg	--	SS-EU103-3345	0.47 J
			SS-MW862-3602	0.942 J
			SS-MW863-3605	5.33 J
			SS-TWP833-3509	0.302 J
			SS-TWP834-3512	0.636 J
			SS-TWP844-3542	0.305 J
			SS-TWP854-3572	0.423 J
			SS-TWP855-3575	0.303 J
			SS-TWP856-3578	1.95
			SS-TWP859-3587	2.44
4,4'-DDT	μg/Kg	--	SS-EU103-3345	2.16
			SS-MW861-3599	2.22
			SS-MW862-3602	1.93
			SS-MW863-3605	12.5
			SS-TWP833-3509	0.8 J
			SS-TWP834-3512	1.96
			SS-TWP839-3527	1.18 J
			SS-TWP851-3563	1.31 J
			SS-TWP853-3569	0.587 J
			SS-TWP856-3578	2.56
			SS-TWP859-3587	2.02
Dieldrin	μg/Kg	--	SS-TWP834-3512	0.237 J
			SS-TWP853-3569	0.222 J
Radionuclides				

* Data qualifier included with concentration value

Table 4-28
Exposure Unit 10
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	--	SD701-293	21.4
			SD702-295	8.97
			SD703-297	68.2
			SD741-672	16.6
			SD742-674	9.84
			SS-EU101-3343	19.3
			SS-EU102-3344	9.91
			SS-EU103-3345	7.19
			SS-EU113-3348	8.42
			SS-MW861-3599	9.75
			SS-MW862-3602	8.83
			SS-TWP830-3500	9.9
			SS-TWP831-3503	9.93
			SS-TWP832-3506	18.8
			SS-TWP833-3509	34.6
			SS-TWP834-3512	11
			SS-TWP839-3527	9.06
			SS-TWP844-3542	16.2
			SS-TWP850-3560	10.7
			SS-TWP851-3563	11.6
			SS-TWP852-3566	12.9
			SS-TWP853-3569	11.8
			SS-TWP854-3572	13.5
			SS-TWP855-3575	7.36
			SS-TWP856-3578	9.19
			SS-TWP857-3581	27.1
			SS-TWP858-3584	11.8
			SS-TWP859-3587	11.7

* Data qualifier included with concentration value

Table 4-28
Exposure Unit 10
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	--	SD701-293	25.5
			SD702-295	19.4
			SD703-297	39.9
			SD741-672	23.5
			SD742-674	17
			SS-EU101-3343	24.1
			SS-EU102-3344	19.3
			SS-EU103-3345	13
			SS-EU113-3348	24.3
			SS-MW861-3599	21.6
			SS-MW862-3602	20.7
			SS-MW863-3605	16.7
			SS-TWP830-3500	16.7
			SS-TWP831-3503	24.8
			SS-TWP832-3506	29.1
			SS-TWP833-3509	43.5
			SS-TWP834-3512	20.3
			SS-TWP839-3527	19.9
			SS-TWP844-3542	27.7
			SS-TWP850-3560	20.6
			SS-TWP851-3563	22.5
			SS-TWP852-3566	28.5
			SS-TWP853-3569	25.4
			SS-TWP854-3572	31.1
			SS-TWP855-3575	20.4
			SS-TWP856-3578	20.7
			SS-TWP857-3581	38.5
			SS-TWP858-3584	25.3
			SS-TWP859-3587	20.8
Cesium-137	pCi/g	0.343	SS1A002-2158	0.35
Radium-226	pCi/g	0.921	SD703-297	8.52
			SD741-672	1.64
			SS101-684	1.64
			SS102-685	1.07
			SS1A001-2157	0.937
			SS1A002-2158	2.04
			SS1B001-2159	1.02
			SS1B002-2160	1.02
			SS8C003-2186	0.991
			SS-EU101-3343	2.69
			SS-EU103-3345	0.956
			SS-TWP844-3542	1.3
			SS-TWP852-3566	1
			SS-TWP856-3578	0.984 J

* Data qualifier included with concentration value

Table 4-28
Exposure Unit 10
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SD703-297	10.1
			SS101-684	1.94
			SS1A002-2158	1.88
			SS-EU101-3343	6.86
			SS-MW861-3599	1.67
			SS-TWP844-3542	2.58
			SS-TWP852-3566	2.53
			SS-TWP855-3575	2.7
			SS-TWP856-3578	2.04 J
Thorium-232	pCi/g	1.24	SS-TWP852-3566	1.36
			SS-TWP853-3569	1.58
			SS-TWP856-3578	1.36 J
Total Uranium	μg/g	3.94	SD703-297	5.6
			SD741-672	4.89
			SS-TWP833-3509	40.2
			SS-TWP857-3581	24.3
Uranium-234	pCi/g	1.68	SD703-297	1.94
			SD741-672	2.05
			SS-TWP833-3509	18.9
			SS-TWP852-3566	1.92
			SS-TWP855-3575	2.75
			SS-TWP857-3581	11
Uranium-235	pCi/g	0.0847	SD703-297	0.124 J
			SS1A001-2157	0.15
			SS1B002-2160	0.229
			SS-MW861-3599	0.101
			SS-TWP833-3509	0.935
			SS-TWP857-3581	0.842
Uranium-238	pCi/g	1.36	SD703-297	1.72
			SS103-686	1.44
			SS-TWP833-3509	21
			SS-TWP834-3512	1.41
			SS-TWP852-3566	1.67
			SS-TWP854-3572	1.65
			SS-TWP855-3575	2.75
			SS-TWP857-3581	12.2
			SS-TWP858-3584	1.55
Semivolatile Organics				
Carbazole	μg/Kg	--	SS-MW861-3599	43.5 J
			SS-MW863-3605	28.7 J
Volatile Organics				

* Data qualifier included with concentration value

Table 4-28
Exposure Unit 10
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
1,1-Dichloroethene	μg/Kg	--	SS-MW861-3599	0.82 J
			SS-MW862-3602	0.666 J
			SS-TWP844-3542	0.555 J
			SS-TWP850-3560	0.669 J
			SS-TWP851-3563	0.867 J
2-Butanone	μg/Kg	--	SS-TWP830-3500	63.2
			SS-TWP831-3503	86.4
			SS-TWP832-3506	307
			SS-TWP834-3512	6.27
			SS-TWP839-3527	8.02
			SS-TWP854-3572	11.7
			SS-TWP856-3578	4.48 J
Acetone	μg/Kg	--	SS-TWP830-3500	35.5
			SS-TWP831-3503	19.6
			SS-TWP832-3506	21.3
			SS-TWP834-3512	7.3
			SS-TWP854-3572	14
			SS-TWP856-3578	9.03
			SS-TWP857-3581	302
Toluene	μg/Kg	--	SS-TWP831-3503	0.589 J
			SS-TWP832-3506	0.465 J
			SS-TWP850-3560	0.485 J

* Data qualifier included with concentration value

Table 4-29
Exposure Unit 11
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	18400	SS-EU111-3346	19800
			SS-EU112-3347	22900
			SS-TWP845-3545	19900
			SS-TWP847-3551	21100
			SS-TWP848-3554	22700
			SS-TWP849-3557	19700
Antimony	mg/Kg	0.94	SS-TWP845-3545	1.79 BN*
			SS-TWP846-3548	1.08 BN*
			SS-TWP848-3554	2.3 BN
			SS-TWP849-3557	1.81 BN
Beryllium	mg/Kg	1	SD704-302	1.8 E
			SS-EU112-3347	1.2
			SS-TWP848-3554	1.24 B
Boron	mg/Kg	10.1	SD704-302	20 *
			SS-EU112-3347	12.4 N
			SS-TWP841-3533	10.2 N
			SS-TWP842-3536	12.3
			SS-TWP847-3551	10.3 BN
			SS-TWP848-3554	12.8 B
Cadmium	mg/Kg	0.53	SD704-302	0.95
Calcium	mg/Kg	45200	SD704-302	50000 E*
			SS819-706	53400 *E
			SS-TWP843-3539	64500
Chromium	mg/Kg	24.3	SS-EU112-3347	28.7
			SS-TWP847-3551	30.4
			SS-TWP848-3554	62.1
			SS-TWP849-3557	26.5
Copper	mg/Kg	34.7	SS813-700	54 E*
			SS-EU112-3347	41.5
			SS-TWP847-3551	35.9
			SS-TWP849-3557	48.2 *N
Lithium	mg/Kg	27.9	SS-EU111-3346	31.1
			SS-EU112-3347	33.3 E
			SS-TWP841-3533	30.8
			SS-TWP845-3545	35.8 E
			SS-TWP847-3551	30.1 E
			SS-TWP848-3554	38.9 E
			SS-TWP849-3557	29 E
Magnesium	mg/Kg	10200	SS-TWP849-3557	13600 *
Mercury	mg/Kg	0.27	SD704-302	1.1

* Data qualifier included with concentration value

Table 4-29
Exposure Unit 11
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Potassium	mg/Kg	1820	SS-EU111-3346	2590
			SS-EU112-3347	2660 E
			SS-TWP841-3533	2410 *
			SS-TWP842-3536	2700 E
			SS-TWP843-3539	2240 E
			SS-TWP845-3545	2340
			SS-TWP846-3548	2120
			SS-TWP847-3551	2640
			SS-TWP848-3554	2880
			SS-TWP849-3557	2690
Selenium	mg/Kg	0.37	SD704-302	0.99 BN
			SS801-070	0.49 B
			SS802-071	0.67 B
			SS805-074	1.8 B
			SS813-700	0.902 B
			SS819-706	0.845 B
			SS-EU111-3346	0.509 B
			SS-EU112-3347	0.857 B
			SS-TWP842-3536	1.19 N
			SS-TWP843-3539	1.06 BN
			SS-TWP845-3545	2.18
			SS-TWP846-3548	2.13
			SS-TWP847-3551	2.26
			SS-TWP848-3554	2.3 N
			SS-TWP849-3557	1.44 N
Thallium	mg/Kg	--	SD704-302	0.13 B
			SS801-070	0.1 B
			SS802-071	0.09 B
			SS805-074	0.07 B
			SS813-700	0.16 B
			SS819-706	0.16 B
			SS-EU111-3346	0.121
			SS-EU112-3347	0.165
			SS-TWP841-3533	0.14 E
			SS-TWP842-3536	0.119
			SS-TWP843-3539	0.126
			SS-TWP845-3545	0.131 E
			SS-TWP846-3548	0.1 BE
			SS-TWP847-3551	0.13 E
			SS-TWP848-3554	0.117
			SS-TWP849-3557	0.144

* Data qualifier included with concentration value

Table 4-29
Exposure Unit 11
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Vanadium	mg/Kg	34	SS-EU112-3347	39.3 N
			SS-TWP847-3551	36.9 N
			SS-TWP848-3554	34.4 *N
			SS-TWP849-3557	46.8 *N
PAHs				
Acenaphthene	μg/Kg	--	SS2A002-530	34.9 J
			SS2A003-531	296
			SS-TWP848-3554	64.3
Acenaphthylene	μg/Kg	--	SS2A002-530	7.5 J
Anthracene	μg/Kg	--	SS2A002-530	48.2
			SS2A003-531	518
			SS-TWP848-3554	77.7
Benzo(a)anthracene	μg/Kg	284	SS2A003-531	2430
			SS-TWP848-3554	416
Benzo(a)pyrene	μg/Kg	313	SS2A002-530	349
			SS2A003-531	2560
			SS-TWP848-3554	536
Benzo(b)fluoranthene	μg/Kg	396	SS2A003-531	2740
			SS-TWP848-3554	801
Benzo(g,h,i)perylene	μg/Kg	--	SS2A002-530	234
			SS2A003-531	1410
			SS-EU112-3347	8.39 P
			SS-TWP846-3548	7.63
			SS-TWP847-3551	13.3
			SS-TWP848-3554	281
			SS-TWP849-3557	2.52
Benzo(k)fluoranthene	μg/Kg	322	SS2A002-530	404
			SS2A003-531	2940
Chrysene	μg/Kg	378	SS2A002-530	409
			SS2A003-531	2980
			SS-TWP848-3554	436
Dibenzo(a,h)anthracene	μg/Kg	--	SS2A002-530	209
Fluoranthene	μg/Kg	889	SS2A003-531	7210 D
Fluorene	μg/Kg	--	SS2A002-530	27.9 J
			SS2A003-531	263
			SS-TWP848-3554	22.2 J
Indeno(1,2,3-cd)pyrene	μg/Kg	--	SS2A002-530	268
			SS2A003-531	1330
			SS-TWP848-3554	280
Naphthalene	μg/Kg	--	SS2A002-530	46.6
			SS2A003-531	336
			SS-TWP841-3533	3.44 J
Phenanthrene	μg/Kg	538	SS2A003-531	4360

* Data qualifier included with concentration value

Table 4-29
Exposure Unit 11
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Pyrene	µg/Kg	716	SS2A002-530	748
			SS2A003-531	6280 D
PCBs				
Aroclor-1242	µg/Kg	--	SS-TWP843-3539	4.8
			SS-TWP846-3548	6.7
Aroclor-1254	µg/Kg	--	SS-TWP846-3548	2.6 J
			SS-TWP847-3551	3.8 J
Aroclor-1260	µg/Kg	--	SS-TWP847-3551	2.2 J
Pesticides				
4,4'-DDE	µg/Kg	--	SS-TWP842-3536	0.361 J
			SS-TWP845-3545	0.335 J
			SS-TWP846-3548	0.594 J
			SS-TWP847-3551	0.892 J
			TS809-2904-001	2.9 J
4,4'-DDT	µg/Kg	--	SS-TWP843-3539	2.47
			SS-TWP846-3548	1.19 J
			SS-TWP847-3551	1.28 J
Heptachlor	µg/Kg	--	SD704-302	1.7
Radionuclides				
Actinium-227	pCi/g	0.08	SD752-2241	0.906
			SS826-405	0.97
			SS827-406	9.22
			SS830-1036	132
			SS8A014-2181	3.6
			SS8H001-2443	0.629
Alpha	pCi/g	--	SD704-302	17.8
			SS801-070	17.7
			SS802-071	16.9
			SS805-074	21.8
			SS826-405	42.8
			SS827-406	536
			SS830-1036	3840
			SS-EU111-3346	11.6
			SS-TWP841-3533	8.37
			SS-TWP842-3536	8.16
			SS-TWP843-3539	13.8
			SS-TWP845-3545	12.8
			SS-TWP846-3548	9.95
			SS-TWP847-3551	13.2
			SS-TWP848-3554	17.2
			SS-TWP849-3557	11.3
			TS812-2928-062	19000

* Data qualifier included with concentration value

Table 4-29
Exposure Unit 11
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	--	SD704-302	27.1
			SS801-070	38.6
			SS802-071	20.8
			SS805-074	28.5
			SS826-405	39.3
			SS827-406	301
			SS830-1036	1830
			SS-EU111-3346	21.7
			SS-TWP841-3533	23.2
			SS-TWP842-3536	23.5
			SS-TWP843-3539	27.2
			SS-TWP845-3545	24.3
			SS-TWP846-3548	20.1
			SS-TWP847-3551	24.2
			SS-TWP848-3554	24.9
			SS-TWP849-3557	21.3
			TS812-2928-062	15100
Cesium-137	pCi/g	0.343	SD752-2241	0.472
			SS2A006-2369	0.447
			SS8H001-2443	0.688
			SS8H002-2444	0.388

* Data qualifier included with concentration value

Table 4-29
Exposure Unit 11
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SB2A005-2240	3.41
			SD704-302	1.37
			SD752-2241	25.7
			SS2A002-530	0.956
			SS2A004-2173	4.18
			SS2A006-2369	5.46
			SS2A007-2370	1.04
			SS2A009-2373	1.34
			SS801-070	1.81
			SS802-071	1.25
			SS805-074	1.5
			SS813-700	1.37
			SS814-701	2.71
			SS819-706	1.05
			SS826-405	13.2
			SS827-406	185
			SS830-1036	386
			SS8A002-2174	3.01
			SS8A003-2175	47.9
			SS8A004-2176	6.2
			SS8A005-2177	2.12
			SS8A006-2178	1.05
			SS8A007-2179	1.03
			SS8A008-2180	1.08
			SS8A010-2182	1.24
			SS8A014-2181	67.9
			SS8B009-2441	1.19
			SS8B010-2442	1.83
			SS8H001-2443	7.49
			SS8H002-2444	15.1 J
			SS-EU111-3346	0.977
			SS-TWP841-3533	0.959
			SS-TWP845-3545	1.17
			SS-TWP847-3551	1.16
			SS-TWP848-3554	1.76
			TS809-2904-001	3.09
			TS809-2905-007	3.39
			TS812-2928-062	9.64
Radium-228	pCi/g	1.26	SS827-406	1.35
			SS8A014-2181	1.49

* Data qualifier included with concentration value

Table 4-29
Exposure Unit 11
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SB2A005-2240	4.88
			SD704-302	1.82 J
			SD752-2241	18.2
			SS2A004-2173	6.31
			SS2A006-2369	8.04
			SS2A009-2373	2.93
			SS805-074	2.79
			SS813-700	2.02
			SS814-701	2.62
			SS826-405	11.9
			SS827-406	33.3
			SS830-1036	304
			SS8A002-2174	3.68
			SS8A003-2175	87.6
			SS8A004-2176	9.79
			SS8A005-2177	3.03
			SS8A014-2181	68.5
			SS8B009-2441	2.83
			SS8B010-2442	2.33
			SS8H001-2443	10
			SS8H002-2444	22.5 J
			SS-TWP841-3533	2.01
			SS-TWP842-3536	1.75
			SS-TWP845-3545	2.57
			SS-TWP847-3551	2
			SS-TWP848-3554	2.7
			SS-TWP849-3557	2.06 J
			TS809-2904-001	4.58
			TS809-2905-007	5.95
			TS812-2928-062	14.3
Thorium-232	pCi/g	1.24	SS-TWP841-3533	1.39
			SS-TWP842-3536	1.52
			SS-TWP843-3539	1.25
			SS-TWP848-3554	1.54
			SS-TWP849-3557	1.32 J
			TS809-2905-007	1.34

* Data qualifier included with concentration value

Table 4-29
Exposure Unit 11
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	µg/g	3.94	SS814-701	9.52
			SS819-706	55.8
			SS826-405	9.87
			SS827-406	8.35
			SS830-1036	884
			SS8A003-2175	5.86
			SS8A014-2181	4.98
			SS8B008-2438	15.5
			SS8B010-2442	8.09
			SS8H001-2443	10.4
			SS8H002-2444	11.3
			SS-EU111-3346	4.14
			TS812-2928-062	2860
Uranium-234	pCi/g	1.68	SS2A006-2369	1.96
			SS814-701	3.77
			SS819-706	15.6
			SS826-405	4.05
			SS827-406	3.34
			SS830-1036	89.9
			SS8A003-2175	4.19
			SS8A014-2181	2.38
			SS8B010-2442	2.94
			SS8H001-2443	2.89
			SS8H002-2444	3.8 J
			SS-TWP841-3533	1.85
			SS-TWP845-3545	1.73
			SS-TWP848-3554	2.1
			TS812-2928-062	8340
Uranium-235	pCi/g	0.0847	SS819-706	0.625
			SS827-406	0.381
			SS830-1036	3.43
			SS8A003-2175	0.285
			SS8A004-2176	0.154
			SS8A014-2181	0.115
			SS8B010-2442	0.239
			SS8H001-2443	0.197
			SS8H002-2444	0.404 J
			SS-TWP841-3533	0.293
			SS-TWP845-3545	0.236
			SS-TWP846-3548	0.226
			SS-TWP847-3551	0.473
			SS-TWP848-3554	0.094
			TS809-2904-001	0.0981
			TS812-2928-062	886

* Data qualifier included with concentration value

Table 4-29
Exposure Unit 11
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.36	SS2A004-2173	1.74
			SS2A006-2369	1.95
			SS801-070	1.58
			SS813-700	1.61
			SS814-701	3.31
			SS819-706	14.7
			SS826-405	3.76
			SS827-406	2.36
			SS830-1036	88.6
			SS8A003-2175	3.18
			SS8A004-2176	1.38
			SS8A014-2181	1.75
			SS8B010-2442	2.92
			SS8H001-2443	2.83
			SS8H002-2444	4.04 J
			SS-TWP841-3533	1.82
			SS-TWP845-3545	1.66
			SS-TWP848-3554	1.93
			SS-TWP849-3557	1.43
			TS812-2928-062	8830
Semivolatile Organics				
2-Methylnaphthalene	μg/Kg	--	SS2A002-530	53.8
			SS2A003-531	449
Butylbenzylphthalate	μg/Kg	--	SS2A002-530	17.7 J
Carbazole	μg/Kg	--	SS2A002-530	49.2 J
			SS2A003-531	334 J
			SS-TWP848-3554	45 J
Dibenzofuran	μg/Kg	--	SS2A002-530	30.3 J
			SS2A003-531	277 J
Diethylphthalate	μg/Kg	--	SS-EU111-3346	31.6 J
Volatile Organics				
2-Butanone	μg/Kg	--	SS801-070	36.5
			SS805-074	45.9
			SS-TWP842-3536	6.19
			SS-TWP845-3545	13.9
			SS-TWP848-3554	8.22
Acetone	μg/Kg	--	SS805-074	29.6
			SS-EU112-3347	6.08 J
			SS-TWP845-3545	4.19 J
			SS-TWP847-3551	3.93 J
			SS-TWP848-3554	4.21 J
Benzene	μg/Kg	--	SS801-070	2.3
			SS805-074	2.6

* Data qualifier included with concentration value

Table 4-29
Exposure Unit 11
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Toluene	µg/Kg	--	SS801-070	1.8
			SS805-074	1.9
			SS-TWP848-3554	0.799 J
			SS-TWP849-3557	0.405 J
Xylenes (total)	µg/Kg	--	SS801-070	1.1 J

* Data qualifier included with concentration value

Table 4-30
Exposure Unit 12
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	18400	SS-EU121-3349	23200
			SS-EU122-3350	19900
Arsenic	mg/Kg	11.3	SS204-004	22.5
			SS2B002-534	51.8 N
Beryllium	mg/Kg	1	SS2B001-532	1.03
			SS2B002-534	1.79
			SS-EU121-3349	1.49
			SS-EU122-3350	1.1
Boron	mg/Kg	10.1	SS204-004	21
			SS215-019	27.7 *
			SS2B001-532	23.6
			SS2B002-534	37.6
			SS-EU121-3349	12.8 N
Cadmium	mg/Kg	0.53	SS215-019	0.7
			SS-EU121-3349	1.29
Chromium	mg/Kg	24.3	SS-EU121-3349	28.1
			SS-EU122-3350	27.6
Copper	mg/Kg	34.7	SS206-009	48.4
			SS-EU121-3349	99.8
			SS-EU122-3350	35.6
Lithium	mg/Kg	27.9	SS-EU122-3350	32.1 E
Potassium	mg/Kg	1820	SS2B001-532	2740 N
			SS-EU121-3349	2280 E
			SS-EU122-3350	2620 E
Selenium	mg/Kg	0.37	SS204-004	1.7 B
			SS206-009	1.5 N
			SS215-019	0.7 BN
			SS2B001-532	1.38 B
			SS2B002-534	3.13 B
			SS-EU121-3349	1.89
			SS-EU122-3350	0.666 B
			SS-EU123-3351	0.989 B
Silver	mg/Kg	0.27	SS2B001-532	0.352 BN
			SS2B002-534	0.361 BN
Thallium	mg/Kg	--	SS204-004	0.39
			SS206-009	0.09 B
			SS215-019	0.09 B
			SS2B001-532	0.121 B
			SS2B002-534	0.18 B
			SS-EU121-3349	0.215
			SS-EU122-3350	0.114 B
			SS-EU123-3351	0.153

* Data qualifier included with concentration value

Table 4-30
Exposure Unit 12
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Vanadium	mg/Kg	34	SS-EU121-3349	45.8 N
			SS-EU122-3350	41 N
Zinc	mg/Kg	78	SS2B001-532	106
			SS2B002-534	80.9
			SS-EU121-3349	112
PAHs				
Anthracene	μg/Kg	--	SS204-004	43.5 J
Benzo(a)anthracene	μg/Kg	284	SS2B002-534	945 J
Benzo(a)pyrene	μg/Kg	313	SS2B002-534	1340 J
Benzo(b)fluoranthene	μg/Kg	396	SS2B002-534	3550
Benzo(g,h,i)perylene	μg/Kg	--	SS206-009	63.4 J
			SS2B002-534	1070 J
			SS-EU121-3349	18.9
Benzo(k)fluoranthene	μg/Kg	322	SS2B002-534	1250 J
Chrysene	μg/Kg	378	SS2B002-534	1790
Fluoranthene	μg/Kg	889	SS2B002-534	1120 J
Indeno(1,2,3-cd)pyrene	μg/Kg	--	SS2B001-532	965 J
			SS2B002-534	1600 J
Naphthalene	μg/Kg	--	SS204-004	1330
			SS2B002-534	2170
			SS-EU121-3349	3.03 JP
Phenanthrene	μg/Kg	538	SS204-004	988
			SS2B002-534	1050 J
PCBs				
Aroclor-1260	μg/Kg	--	SS-EU121-3349	4.8 J
			SS-EU122-3350	1.4 J
Pesticides				
4,4'-DDE	μg/Kg	--	SS-EU121-3349	1.46 J
			SS-EU122-3350	1.21 J
4,4'-DDT	μg/Kg	--	SS-EU121-3349	2.84
			SS-EU122-3350	2.28
Radionuclides				
Actinium-227	pCi/g	0.08	SS218-400	2.71
			SS219-401	2.72

* Data qualifier included with concentration value

Table 4-30
Exposure Unit 12
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	--	SD719-341	19.6
			SS204-004	8.21
			SS205-008	38.9
			SS206-009	14.5
			SS215-019	19.2
			SS218-400	284
			SS219-401	99.2
			SS-EU121-3349	22.3
			SS-EU122-3350	10.2
			SS-EU123-3351	17.1 J
Beta	pCi/g	--	SD719-341	26.2
			SS204-004	18.1
			SS205-008	25.1
			SS206-009	26.3
			SS215-019	22
			SS218-400	153
			SS219-401	72
			SS-EU121-3349	27.6
			SS-EU122-3350	23.1
			SS-EU123-3351	25 J
Cesium-137	pCi/g	0.343	SS219-401	0.679
			SS2A008-2371	0.47
			SS2B002-534	0.438
			SS2D001-547	0.572
			SS2D002-548	0.508
			SS2D003-549	0.484
			SS2D004-550	0.542
			SS2D005-551	0.424
			SS2D012-2384	0.739

* Data qualifier included with concentration value

Table 4-30
Exposure Unit 12
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SD719-341	1.02
			SS205-008	7.87
			SS206-009	1.72
			SS215-019	1.41
			SS218-400	29.6
			SS219-401	24.1
			SS2A008-2371	8.65
			SS2B001-532	1.41
			SS2B002-534	3.43
			SS2C002-2380	1.65
			SS2D001-547	1.47
			SS2D002-548	1.59
			SS2D003-549	2.13
			SS2D005-551	1.77
			SS2D009-2381	0.994
			SS2D011-2383	1.37
			SS2D012-2384	10.7
			SS2D013-2385	5.92
			SS-EU121-3349	1.46
			SS-EU123-3351	1.39
Thorium-228	pCi/g	1.64	SS219-401	1.96
			SS-EU123-3351	2.08 J
Thorium-230	pCi/g	1.6	SD719-341	2.08 J
			SS204-004	2.17
			SS205-008	3.47
			SS206-009	1.65
			SS218-400	69.6
			SS219-401	39.2
			SS2A008-2371	14
			SS2B002-534	2.54
			SS2C002-2380	2.32
			SS2D001-547	2.75
			SS2D002-548	2.97
			SS2D003-549	3.26
			SS2D005-551	2.39
			SS2D009-2381	1.73
			SS2D011-2383	2.29
			SS2D012-2384	4.2
			SS2D013-2385	3.36
			SS-EU121-3349	2.51
			SS-EU122-3350	1.72
			SS-EU123-3351	2.59 J

* Data qualifier included with concentration value

Table 4-30
Exposure Unit 12
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-232	pCi/g	1.24	SS2D003-549	1.46
			SS2D005-551	1.39
			SS2D011-2383	1.33
			SS-EU123-3351	1.3 J
Total Uranium	μg/g	3.94	SD719-341	4.13 J
			SS218-400	49.4
			SS219-401	20.9
			SS2D009-2381	5.57
			SS2D011-2383	7.71
			SS-EU121-3349	15.4
Uranium-234	pCi/g	1.68	SD719-341	1.75
			SS218-400	12.1
			SS219-401	7.71
			SS2A008-2371	1.77
			SS2B002-534	1.81
			SS2D009-2381	2.23
			SS2D011-2383	3.08
			SS-EU121-3349	6
			SS-EU123-3351	1.96 J
Uranium-235	pCi/g	0.0847	SS218-400	0.409
			SS2D011-2383	0.179
			SS2D013-2385	0.269
			SS-EU121-3349	0.251
Uranium-238	pCi/g	1.36	SD719-341	1.49
			SS218-400	12.1
			SS219-401	7.51
			SS2A008-2371	1.64
			SS2B002-534	1.78
			SS2D009-2381	2.5
			SS2D011-2383	3.05
			SS-EU121-3349	5.66
			SS-EU123-3351	1.52 J
Semivolatile Organics				
2-Methylnaphthalene	μg/Kg	--	SS204-004	2050
			SS2B002-534	2950
Benzoic Acid	μg/Kg	--	SS204-004	602 J
Dibenzofuran	μg/Kg	--	SS204-004	612
Volatile Organics				
2-Butanone	μg/Kg	--	SS215-019	5.4 J
Acetone	μg/Kg	--	SS215-019	6.7
Methylene chloride	μg/Kg	--	SS205-008	18.2
			SS206-009	18.5

* Data qualifier included with concentration value

Table 4-31
Exposure Unit 13
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Antimony	mg/Kg	0.94	SS208-011	2.2 N
			SS-EU133-3354	1.3 N
Boron	mg/Kg	10.1	SS208-011	33.2
			SS213-017	15.4 N
			SS-EU131-3352	10.5 N
			SS-EU132-3353	21.4
			SS-EU133-3354	10.2
			SS-MW229-3617	57.6
			TS203-2808-020	14.5
Cadmium	mg/Kg	0.53	SS208-011	2
			SS-EU132-3353	0.869
			TS203-2808-020	2.04 E
Calcium	mg/Kg	45200	SS208-011	124000
			SS-EU132-3353	74000 *
Chromium	mg/Kg	24.3	SS208-011	63.5
			SS217-021	29.4 *
			SS-EU132-3353	69.1
			TS203-2808-020	26.8
Copper	mg/Kg	34.7	SS207-010	47.9
			SS208-011	1050
			SS213-017	35.4
			SS-EU131-3352	40.6
			SS-EU132-3353	84.1
			TS203-2808-020	76 N
Lead	mg/Kg	55.2	SS208-011	142
			SS217-021	58.8 *
			SS-EU132-3353	88.7
			TS203-2808-020	96.1 *E
Magnesium	mg/Kg	10200	SS208-011	43700
			SS-EU132-3353	36800
Mercury	mg/Kg	0.27	SS208-011	0.4
Nickel	mg/Kg	37.5	SS208-011	348
Potassium	mg/Kg	1820	SS208-011	6510
			SS213-017	2660 E
			SS-EU131-3352	3040 E
			SS-EU132-3353	2070 N
			SS-EU133-3354	2170 N
			SS-MW229-3617	2470 E
			TS203-2808-020	2660 E

* Data qualifier included with concentration value

Table 4-31
Exposure Unit 13
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SS207-010	1.1 B
			SS208-011	0.65 B
			SS209-012	1
			SS213-017	0.91 BN
			SS217-021	1.1
			SS-EU131-3352	0.497 B
			SS-EU132-3353	0.869 B
			SS-EU133-3354	0.542 B
			SS-MW229-3617	1.13 N
			TS203-2808-020	0.88 B
Sodium	mg/Kg	286	SS208-011	1660
Thallium	mg/Kg	--	SS207-010	0.12 B
			SS208-011	0.16
			SS209-012	0.1 B
			SS213-017	0.17
			SS217-021	0.14
			SS-EU131-3352	0.114 B
			SS-EU132-3353	0.145
			SS-EU133-3354	0.099 B
			SS-MW229-3617	0.136
			TS203-2808-020	0.189 E
Vanadium	mg/Kg	34	SS208-011	40.5
			TS203-2808-020	34.9 N
Zinc	mg/Kg	78	SS207-010	87.8
			SS208-011	495
			SS217-021	270
			SS-EU131-3352	98
			SS-EU132-3353	215
			TS203-2808-020	2450
Nitroaromatics				
2,4-Dinitrotoluene	μg/Kg	--	SS208-011	108
PAHs				
Acenaphthene	μg/Kg	--	SS201-001	40.7 J
Anthracene	μg/Kg	--	SS201-001	60.4 J
			SS203-003	55.6 J
			TS203-2808-020	22.6 J
Benzo(a)anthracene	μg/Kg	284	SS201-001	323 J
Benzo(a)pyrene	μg/Kg	313	SS201-001	383 J
Benzo(b)fluoranthene	μg/Kg	396	SS201-001	446
Benzo(g,h,i)perylene	μg/Kg	--	SS201-001	215 J
			SS203-003	191 J
			SS208-011	40.4 J
			SS-EU131-3352	11.8

* Data qualifier included with concentration value

Table 4-31
Exposure Unit 13
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Chrysene	µg/Kg	378	SS201-001	440
Fluoranthene	µg/Kg	889	SS201-001	892
Fluorene	µg/Kg	--	SS201-001	35.6 J
Indeno(1,2,3-cd)pyrene	µg/Kg	--	SS201-001	182 J
			SS203-003	188 J
			SS208-011	30.6 J
Naphthalene	µg/Kg	--	SS201-001	343 J
			SS203-003	483
			SS208-011	23.2 J
			SS-EU131-3352	11.2 J
Phenanthrene	µg/Kg	538	SS201-001	642
Pyrene	µg/Kg	716	SS201-001	925
PCBs				
Aroclor-1254	µg/Kg	--	SS208-011	208
			SS217-021	77.7
Aroclor-1260	µg/Kg	--	SS216-020	14.9
			SS217-021	84.5 P
Pesticides				
4,4'-DDE	µg/Kg	--	SS-MW229-3617	0.43 J
4,4'-DDT	µg/Kg	--	SS-MW229-3617	2.14
Radionuclides				
Actinium-227	pCi/g	0.08	SS220-402	1.95
			SS221-403	9.3
Alpha	pCi/g	--	SS201-001	29.8
			SS203-003	121
			SS207-010	16.9
			SS208-011	19.1
			SS209-012	16.1
			SS210-014	14.9
			SS211-015	34.1
			SS212-016	19.6
			SS213-017	16
			SS214-018	21.7
			SS216-020	22.8
			SS217-021	13.4
			SS220-402	60.3
			SS221-403	3030
			SS-MW229-3617	10.9

* Data qualifier included with concentration value

Table 4-31
Exposure Unit 13
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	--	SS201-001	29.5
			SS203-003	70.1
			SS207-010	27.7
			SS208-011	23.5
			SS209-012	21.4
			SS210-014	21.5
			SS211-015	30.6
			SS212-016	32.9
			SS213-017	25.1
			SS214-018	23.1
			SS216-020	32
			SS217-021	21.5
			SS220-402	50.4
			SS221-403	1180
			SS-MW229-3617	19.9
Radium-226	pCi/g	0.921	SS201-001	1.66
			SS203-003	1140
			SS207-010	1.53
			SS209-012	1.42
			SS210-014	1.66
			SS211-015	3.92
			SS212-016	1.71
			SS213-017	1.36
			SS214-018	1.06
			SS216-020	1.52
			SS217-021	1.45
			SS220-402	33.4
			SS221-403	127
			SS2B004-536	1.47
			SS2B006-539	0.997
			SS2B007-540	1.56
			SS-MW229-3617	0.933
			TS203-2808-020	1.64

* Data qualifier included with concentration value

Table 4-31
Exposure Unit 13
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SS201-001	3.48
			SS203-003	6.48
			SS207-010	2.32
			SS208-011	1.79
			SS209-012	2.01
			SS210-014	2.01
			SS211-015	7.39
			SS212-016	2.88
			SS213-017	1.69
			SS216-020	3.13
			SS217-021	2.17
			SS220-402	8.24
			SS221-403	978
			SS2B007-540	2.81
			SS-MW229-3617	1.61
			TS203-2808-020	3.68
Thorium-232	pCi/g	1.24	SS221-403	2.07
Total Uranium	μg/g	3.94	SS203-003	5.06
			SS207-010	3.96
			SS220-402	21.1
			SS221-403	44.8
			SS2B004-536	9.69
			SS2B006-539	6.21
			SS2B007-540	4.44
Uranium-234	pCi/g	1.68	SS220-402	8.43
			SS221-403	29.7
			SS2B004-536	2.08
			SS2B006-539	2.02
			SS2B007-540	2.41
Uranium-235	pCi/g	0.0847	SS208-011	0.17 J
			SS220-402	0.452
			SS221-403	1.2
Uranium-238	pCi/g	1.36	SS201-001	1.37
			SS203-003	1.8
			SS207-010	2.15
			SS220-402	6.8
			SS221-403	26.2
			SS2B004-536	2.25
			SS2B006-539	2.26
			SS2B007-540	1.61
Semivolatile Organics				

* Data qualifier included with concentration value

Table 4-31
Exposure Unit 13
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
2-Methylnaphthalene	μg/Kg	--	SS201-001	490
			SS203-003	819
			SS208-011	29 J
			SS216-020	25.4 J
Volatile Organics				
Acetone	μg/Kg	--	TS203-2808-020	9.8
Methylene chloride	μg/Kg	--	SS208-011	6.2
			SS210-014	15.2
			TS203-2808-020	1.3 J
Tetrachloroethene	μg/Kg	--	SS216-020	2.7
			TS203-2808-020	14.3
Toluene	μg/Kg	--	SS201-001	3.7
			TS203-2808-020	0.39 J
Trichloroethene	μg/Kg	--	SS201-001	1 J

* Data qualifier included with concentration value

Table 4-32
Exposure Unit 14
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	18400	SS816-703	147000
Antimony	mg/Kg	0.94	SS-EU143-3357	1.38 N
Barium	mg/Kg	279	SS816-703	2210
Beryllium	mg/Kg	1	SS816-703	28
Boron	mg/Kg	10.1	SS202-002	283
			SS2B003-535	24.2
			SS816-703	361
Cadmium	mg/Kg	0.53	SS804-073	0.58 B
			SS816-703	0.588 B
Calcium	mg/Kg	45200	SS202-002	45300 E
			SS816-703	240000
Chromium	mg/Kg	24.3	SS816-703	37.9
Copper	mg/Kg	34.7	SS2B003-535	45.6
			SS804-073	35.1 *N
			SS816-703	58.3
			SS-EU142-3356	47.2
Lead	mg/Kg	55.2	SS2B003-535	67.8
Lithium	mg/Kg	27.9	SS816-703	31.2
Magnesium	mg/Kg	10200	SS202-002	11100
			SS816-703	232000
Potassium	mg/Kg	1820	SS202-002	2130
			SS816-703	12200
			SS-EU143-3357	1980 N
Selenium	mg/Kg	0.37	SS202-002	0.64 B
			SS2B003-535	1.44 B
			SS803-072	1.3
			SS804-073	1.3
			SS816-703	5.25
			SS-EU141-3355	0.744 B
			SS-EU142-3356	0.934 B
			SS-EU143-3357	0.791 B
Silver	mg/Kg	0.27	SS2B003-535	0.404 BN
Sodium	mg/Kg	286	SS202-002	678
			SS816-703	4690
Thallium	mg/Kg	--	SS202-002	0.11 B
			SS2B003-535	0.262 B
			SS803-072	0.12 B
			SS804-073	0.15
			SS816-703	0.032 B
			SS-EU141-3355	0.11
			SS-EU142-3356	0.123
			SS-EU143-3357	0.133

* Data qualifier included with concentration value

Table 4-32
Exposure Unit 14
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Zinc	mg/Kg	78	SS816-703	403
PAHs				
Naphthalene	μg/Kg	--	SS2B003-535	1410 J
Radionuclides				
Actinium-227	pCi/g	0.08	SS816-703	5.11
			SS8B001-2430	1 J
Alpha	pCi/g	--	SS202-002	14.1
			SS803-072	9.8
			SS804-073	22.1
			SS-EU141-3355	12.8
Beta	pCi/g	--	SS202-002	23.8
			SS803-072	20.1
			SS804-073	25.8
			SS-EU141-3355	20.4
Cesium-137	pCi/g	0.343	SS2B003-535	0.542
			SS2D006-552	0.646
			SS2D008-554	0.433
			SS817-704	1.27
			SS818-705	0.469
			SS8B003-2433	0.357
			SS8B006-2436	0.452

* Data qualifier included with concentration value

Table 4-32
Exposure Unit 14
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SS202-002	0.988
			SS2B003-535	1.81
			SS2B005-537	1.02
			SS2B008-541	1.47
			SS2B009-542	1.08
			SS2B014-2374	126
			SS2B016-2377	1.08
			SS2B018-2379	0.922
			SS2D006-552	1.57
			SS2D007-553	1.83
			SS2D008-554	1.46
			SS2D010-2382	1.1
			SS803-072	0.957
			SS815-702	3.07
			SS816-703	299
			SS817-704	2.72
			SS818-705	1.66
			SS8B001-2430	16.8 J
			SS8B002-2431	1.03
			SS8B003-2433	1.21
			SS8B004-2434	1.09
			SS8B005-2435	1.08
			SS8B006-2436	1.33
			SS8B007-2437	1.15
			SS-EU141-3355	1.06
Thorium-230	pCi/g	1.6	SS2B003-535	3.94
			SS2B008-541	2.76
			SS2B009-542	1.99
			SS2B014-2374	4.3
			SS2D006-552	1.91
			SS2D007-553	1.64
			SS2D008-554	2.84
			SS815-702	4.47
			SS816-703	3.39
			SS818-705	1.8
			SS8B001-2430	4.11 J
			SS8B005-2435	1.78
			SS8B006-2436	2.71
			SS8B007-2437	2.01

* Data qualifier included with concentration value

Table 4-32
Exposure Unit 14
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	μg/g	3.94	SS202-002	6.34
			SS2B003-535	9.59
			SS2B008-541	5.62
			SS2B014-2374	9.96
			SS2B016-2377	4.01
			SS2D010-2382	4.6
			SS804-073	4.41 J
			SS815-702	9.23
			SS816-703	8.94
			SS817-704	4.79
			SS818-705	5.52
			SS8B005-2435	4.07
			SS8B007-2437	9.69
			SS-EU141-3355	5.73
Uranium-234	pCi/g	1.68	SS202-002	1.93
			SS2B003-535	4.44
			SS2B010-543	1.9
			SS2B014-2374	3.68
			SS2D006-552	1.76
			SS804-073	2.11
			SS815-702	3.71
			SS816-703	2.28
			SS817-704	2.07
			SS818-705	2.63
			SS8B007-2437	4.02
			SS-EU141-3355	2.38
Uranium-235	pCi/g	0.0847	SS202-002	0.14 J
			SS2B014-2374	0.321
			SS815-702	0.243
			SS817-704	0.132
			SS8B001-2430	0.107 J
			SS8B007-2437	0.234
			SS-EU141-3355	0.224

* Data qualifier included with concentration value

Table 4-32
Exposure Unit 14
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.36	SS202-002	1.91
			SS2B003-535	2.23
			SS2B008-541	1.42
			SS2B014-2374	3.82
			SS2B016-2377	1.52
			SS804-073	1.79
			SS815-702	3.13
			SS816-703	2.78
			SS817-704	1.77
			SS818-705	1.84
			SS8B007-2437	3.7
			SS-EU141-3355	1.75
Semivolatile Organics				
2-Methylnaphthalene	μg/Kg	--	SS2B003-535	2080
Di-n-octylphthalate	μg/Kg	--	SS2B008-541	506

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	18400	SD701-293	20600
			SD725-353	20600
			SS402-039	40100
			SS418-055	21800
			SS4A012-611	24400
			SS816-703	147000
			SS903-2083	24300
			SS-DRUM01-3369	38400 *
			SS-DRUM05-3381	20100 J
			SS-EU051-3334	32400 E*
			SS-EU111-3346	19800
			SS-EU112-3347	22900
			SS-EU121-3349	23200
			SS-EU122-3350	19900
			SS-MW424-3620	18600
			SS-MW863-3605	18700 J
			SS-TWP844-3542	20600
			SS-TWP845-3545	19900
			SS-TWP847-3551	21100
			SS-TWP848-3554	22700
			SS-TWP849-3557	19700
			SS-TWP851-3563	21900 *
			SS-TWP852-3566	19500
			SS-TWP854-3572	19900
			SS-TWP855-3575	18500
			SS-TWP856-3578	18800
			SS-TWP857-3581	18500
			TS203-2808-020	18800

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Antimony	mg/Kg	0.94	SS208-011	2.2 N
			SS-DRUM01-3369	1.83 N
			SS-DRUM02-3372	3.57 N
			SS-DRUM04-3378	1.54 N
			SS-DRUM05-3381	2 J
			SS-EU021-3328	1.15 N
			SS-EU022-3329	1.13 BN
			SS-EU071-3337	1.1 BN
			SS-EU133-3354	1.3 N
			SS-EU143-3357	1.38 N
			SS-MW861-3599	0.951 BN
			SS-MW862-3602	2.59 BN*
			SS-MW863-3605	3.92 J
			SS-TWP834-3512	1.34 N
			SS-TWP837-3521	1.52 BN
			SS-TWP839-3527	1.01 BN
			SS-TWP844-3542	2.09 BN*
			SS-TWP845-3545	1.79 BN*
			SS-TWP846-3548	1.08 BN*
			SS-TWP848-3554	2.3 BN
			SS-TWP849-3557	1.81 BN
			SS-TWP850-3560	2.35 BN
			SS-TWP851-3563	1.39 BN
			SS-TWP857-3581	1.87 BN
Arsenic	mg/Kg	11.3	SD732-370	11.7
			SS204-004	22.5
			SS2B002-534	51.8 N
			SS-DRUM02-3372	17.2 N
			SS-DRUM04-3378	13.8 N
Barium	mg/Kg	279	SS402-039	481
			SS816-703	2210
			SS-DRUM04-3378	2670 N*
			SS-EU051-3334	441 *
			SS-EU121-3349	301 N*

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beryllium	mg/Kg	1	SD701-293	1.1
			SD704-302	1.8 E
			SD725-353	1.1 B
			SS2B001-532	1.03
			SS2B002-534	1.79
			SS308-032	1.6
			SS402-039	5.2
			SS4A012-611	2.38
			SS816-703	28
			SS903-2083	1.15
			SS-DRUM01-3369	3.42
			SS-EU051-3334	7.7 E*
			SS-EU112-3347	1.2
			SS-EU121-3349	1.49
			SS-EU122-3350	1.1
			SS-TWP848-3554	1.24 B
			SS-TWP852-3566	1.04 B

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Boron	mg/Kg	10.1	SD704-302	20 *
			SD713-324	10.5 *
			SD725-353	16
			SS202-002	283
			SS204-004	21
			SS208-011	33.2
			SS213-017	15.4 N
			SS215-019	27.7 *
			SS2B001-532	23.6
			SS2B002-534	37.6
			SS2B003-535	24.2
			SS311-035	10.8
			SS402-039	147
			SS410-047	15.5
			SS415-052	10.5
			SS418-055	97.1
			SS419-056	17.1 *
			SS4A012-611	10.2
			SS504-692	10.9
			SS816-703	361
			SS904-2087	14.9
			SS905-2089	10.9
			SS906-2091	11.2
			SS907-2093	10.2
			SS908-2095	12.1
			SS909-2097	10.4 *
			SS910-2099	12.6 *
			SS-DRUM01-3369	85.8
			SS-DRUM02-3372	280
			SS-DRUM04-3378	12
			SS-DRUM05-3381	313 J
			SS-DRUM06-3395	23.4 N
			SS-DRUM07-3398	23.5 N
			SS-EU051-3334	88.2 E*N
			SS-EU081-3339	16.5 E*N
			SS-EU101-3343	11.7 N
			SS-EU102-3344	12.5 N
			SS-EU112-3347	12.4 N
			SS-EU113-3348	14.8
			SS-EU121-3349	12.8 N
			SS-EU131-3352	10.5 N
			SS-EU132-3353	21.4
			SS-EU133-3354	10.2
			SS-MW229-3617	57.6

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Boron	mg/Kg	10.1	SS-MW313-3590	14.4 N
			SS-MW422-3608	11.8 N
			SS-MW423-3611	12.6 N
			SS-TWP831-3503	12.1 B
			SS-TWP832-3506	11.4 N*
			SS-TWP833-3509	12.8
			SS-TWP834-3512	12.9
			SS-TWP838-3524	12.1 B
			SS-TWP840-3530	10.5
			SS-TWP841-3533	10.2 N
			SS-TWP842-3536	12.3
			SS-TWP847-3551	10.3 BN
			SS-TWP848-3554	12.8 B
			SS-TWP850-3560	11.3 B
			SS-TWP852-3566	14.4 B
			SS-TWP854-3572	13.6 B
			SS-TWP855-3575	11.8 B
			SS-TWP858-3584	13.6
			SS-TWP859-3587	12.8
			TS203-2808-020	14.5

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cadmium	mg/Kg	0.53	SD704-302	0.95
			SD712-319	0.68
			SD713-324	1.1
			SD723-349	1.2
			SD731-368	0.73
			SD732-370	0.86
			SD733-373	0.69 B
			SS208-011	2
			SS215-019	0.7
			SS304-028	0.87
			SS306-030	0.68
			SS308-032	0.56 B
			SS311-035	0.65 B
			SS414-051	0.58 B
			SS416-053	0.61
			SS419-056	0.67
			SS421-058	0.91
			SS4A012-611	0.964
			SS4C001-618	0.534 B
			SS605-697	0.751
			SS804-073	0.58 B
			SS816-703	0.588 B
			SS825-713	0.744
			SS-DRUM02-3372	0.624 B
			SS-DRUM05-3381	0.559 J
			SS-EU121-3349	1.29
			SS-EU132-3353	0.869
			SS-MW863-3605	0.623 J
			TS203-2808-020	2.04 E

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Calcium	mg/Kg	45200	SD702-295	54300
			SD704-302	50000 E*
			SD732-370	47200 E*
			SS202-002	45300 E
			SS208-011	124000
			SS308-032	99000
			SS309-033	50600
			SS311-035	90600
			SS402-039	238000 *
			SS406-043	51500
			SS411-048	46900
			SS412-049	93600 E
			SS4A012-611	88100
			SS4D007-621	57800
			SS816-703	240000
			SS819-706	53400 *E
			SS910-2099	62100 *
			SS-DRUM01-3369	47800 *
			SS-DRUM02-3372	47800 *
			SS-EU051-3334	179000 *
			SS-EU113-3348	51700 *
			SS-EU132-3353	74000 *
			SS-MW313-3590	70600 *
			SS-TWP830-3500	104000 *
			SS-TWP831-3503	46000
			SS-TWP834-3512	47200
			SS-TWP836-3518	48200
			SS-TWP838-3524	46500
			SS-TWP843-3539	64500
			SS-TWP852-3566	45500
			SS-TWP853-3569	110000
			SS-TWP854-3572	47200
			SS-TWP855-3575	46300
			SS-TWP858-3584	49700
			SS-TWP859-3587	86900

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Chromium	mg/Kg	24.3	SD701-293	26.8
			SD713-324	25.4
			SD723-349	26.6 E
			SD725-353	42.4
			SS208-011	63.5
			SS217-021	29.4 *
			SS401-037	26.1
			SS407-044	36.8 E
			SS417-054	196
			SS418-055	26.7 *
			SS4A012-611	67
			SS816-703	37.9
			SS903-2083	28.9
			SS-DRUM01-3369	29.4 *
			SS-DRUM02-3372	37.9 *
			SS-DRUM04-3378	88.7 *
			SS-DRUM05-3381	49.4 J
			SS-EU021-3328	30.9 *
			SS-EU051-3334	30.1 *N
			SS-EU112-3347	28.7
			SS-EU121-3349	28.1
			SS-EU122-3350	27.6
			SS-EU132-3353	69.1
			SS-MW861-3599	25.4
			SS-MW863-3605	24.9 J
			SS-TWP833-3509	25.1
			SS-TWP847-3551	30.4
			SS-TWP848-3554	62.1
			SS-TWP849-3557	26.5
			SS-TWP851-3563	26.4
			SS-TWP852-3566	27.9
			SS-TWP854-3572	26.8
			SS-TWP855-3575	25.2
			TS203-2808-020	26.8

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Copper	mg/Kg	34.7	C5-VS-SO-B300-1	37.5
			SD701-293	37
			SD711-317	35.8 *N
			SD712-319	36.9
			SD723-349	38.9 E
			SD725-353	59.2
			SD732-370	35.6
			SS206-009	48.4
			SS207-010	47.9
			SS208-011	1050
			SS213-017	35.4
			SS2B003-535	45.6
			SS302-026	36.3
			SS303-027	36.2
			SS308-032	52.3
			SS309-033	36.6
			SS403-040	40.4
			SS404-041	55 N
			SS407-044	40.5 N
			SS408-045	37.5
			SS410-047	51
			SS412-049	37.9
			SS413-050	75.4
			SS415-052	35.4
			SS418-055	50.1
			SS4A012-611	57.6
			SS4B003-614	36.7
			SS4D005-619	46.2 *
			SS4D007-621	50.3
			SS4D008-623	35.4
			SS502-060	36.5
			SS504-692	41.7 E*
			SS505-694	36.2 *N
			SS605-697	35.3
			SS804-073	35.1 *N
			SS813-700	54 E*
			SS816-703	58.3
			SS903-2083	34.8
			SS-DRUM01-3369	35.2 *N
			SS-DRUM02-3372	159 *N
			SS-DRUM04-3378	76.2 *N
			SS-DRUM05-3381	590 J
			SS-DRUM06-3395	270
			SS-EU034-3333	35.3 *

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Copper	mg/Kg	34.7	SS-EU051-3334	58.1 E*N
			SS-EU103-3345	40
			SS-EU112-3347	41.5
			SS-EU121-3349	99.8
			SS-EU122-3350	35.6
			SS-EU131-3352	40.6
			SS-EU132-3353	84.1
			SS-EU142-3356	47.2
			SS-MW313-3590	129 *
			SS-MW314-3593	36.8 *
			SS-MW422-3608	41 *
			SS-MW862-3602	35.6
			SS-TWP847-3551	35.9
			SS-TWP849-3557	48.2 *N
			TS203-2808-020	76 N
Iron	mg/Kg	36400	SD701-293	38800
			SD725-353	37300
			SS2B002-534	39000
			SS403-040	39500
			SS-DRUM02-3372	105000 *
			SS-DRUM04-3378	50400 *
			SS-DRUM05-3381	154000 J
Lead	mg/Kg	55.2	SS208-011	142
			SS217-021	58.8 *
			SS2B003-535	67.8
			SS308-032	99.8 N
			SS311-035	72 *
			SS403-040	588
			SS409-046	70.2
			SS413-050	686
			SS4A010-608	96.6
			SS4A012-611	67.8
			SS4C001-618	140
			SS-DRUM02-3372	391 *
			SS-DRUM04-3378	149 *
			SS-DRUM07-3398	64.8
			SS-EU132-3353	88.7
			TS203-2808-020	96.1 *E

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Lithium	mg/Kg	27.9	C5-VS-SO-B300-1	30.7
			SD702-295	28.7
			SD712-319	32.9 E
			SD725-353	40.5
			SD732-370	28.6 E
			SS402-039	36
			SS418-055	29.9
			SS808-077	103
			SS816-703	31.2
			SS903-2083	28.9
			SS907-2093	28.1 N
			SS-DRUM01-3369	32.2 N*
			SS-EU051-3334	37.2
			SS-EU111-3346	31.1
			SS-EU112-3347	33.3 E
			SS-EU122-3350	32.1 E
			SS-MW314-3593	29.5
			SS-MW422-3608	28.2
			SS-MW424-3620	29.3 E
			SS-TWP831-3503	29.5 N
			SS-TWP833-3509	31.6
			SS-TWP841-3533	30.8
			SS-TWP844-3542	29.8 E
			SS-TWP845-3545	35.8 E
			SS-TWP847-3551	30.1 E
			SS-TWP848-3554	38.9 E
			SS-TWP849-3557	29 E
			SS-TWP851-3563	31.6 E
			SS-TWP852-3566	34.4 E
			SS-TWP853-3569	30.2 E
			SS-TWP856-3578	30.6 N
			SS-TWP857-3581	33.4 N
			SS-TWP858-3584	28.2
			TS203-2808-020	29

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Magnesium	mg/Kg	10200	SD702-295	22100
			SD713-324	12900 *
			SD725-353	14400
			SS202-002	11100
			SS208-011	43700
			SS303-027	11000
			SS304-028	11800 *
			SS308-032	49300
			SS309-033	12900
			SS311-035	54400
			SS402-039	11800
			SS406-043	29500
			SS408-045	10500
			SS411-048	10700
			SS412-049	17900
			SS418-055	14200
			SS421-058	11800 *
			SS4A012-611	44400
			SS816-703	232000
			SS910-2099	25900 *
			SS-EU051-3334	12200 *
			SS-EU072-3338	15400 *
			SS-EU093-3342	11000 *
			SS-EU102-3344	14000
			SS-EU113-3348	10400
			SS-EU132-3353	36800
			SS-MW313-3590	38200 *
			SS-MW424-3620	10300 *
			SS-TWP830-3500	56300 *
			SS-TWP831-3503	11300
			SS-TWP832-3506	13900 *
			SS-TWP834-3512	15100
			SS-TWP836-3518	22800
			SS-TWP838-3524	11700
			SS-TWP849-3557	13600 *
			SS-TWP850-3560	11400
			SS-TWP852-3566	12600
			SS-TWP853-3569	46700
			SS-TWP854-3572	16700
			SS-TWP855-3575	11300
			SS-TWP858-3584	11300
			SS-TWP859-3587	45800

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Mercury	mg/Kg	0.27	SD704-302	1.1
			SD712-319	0.55
			SD713-324	1.1
			SD732-370	0.35
			SS208-011	0.4
			SS404-041	1.5 N
Nickel	mg/Kg	37.5	C5-VS-SO-B300-1	46
			SD725-353	42.5
			SS208-011	348
			SS404-041	46.8 *E
			SS-DRUM01-3369	43.5 *
			SS-DRUM02-3372	76.1 *
			SS-DRUM05-3381	65.1

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Potassium	mg/Kg	1820	SD701-293	2200 E
			SD713-324	2710 E
			SD725-353	3190
			SD732-370	1910 E
			SS202-002	2130
			SS208-011	6510
			SS213-017	2660 E
			SS2B001-532	2740 N
			SS303-027	2350
			SS304-028	2330 E
			SS309-033	3060 E
			SS418-055	5850
			SS421-058	2130 E
			SS816-703	12200
			SS903-2083	2790 N
			SS904-2087	3350 N
			SS905-2089	2320 N
			SS906-2091	2730 N
			SS907-2093	2550 N
			SS908-2095	2920 N
			SS909-2097	2590 *
			SS910-2099	2710 *
			SS-DRUM01-3369	9150 N
			SS-DRUM02-3372	2860 N
			SS-DRUM04-3378	2030 N
			SS-DRUM05-3381	6330 J
			SS-DRUM06-3395	2270 E
			SS-EU011-3327	2350 N
			SS-EU022-3329	1910 N
			SS-EU031-3330	2180 E*
			SS-EU032-3331	2490 N
			SS-EU033-3332	2290 E*
			SS-EU034-3333	2400 E*
			SS-EU051-3334	4050 *
			SS-EU081-3339	2430 *
			SS-EU092-3341	2310 *
			SS-EU093-3342	2470 *
			SS-EU101-3343	2940 E
			SS-EU102-3344	3120 E
			SS-EU103-3345	2440 E
			SS-EU111-3346	2590
			SS-EU112-3347	2660 E
			SS-EU113-3348	3010 N
			SS-EU121-3349	2280 E

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Potassium	mg/Kg	1820	SS-EU122-3350	2620 E
			SS-EU131-3352	3040 E
			SS-EU132-3353	2070 N
			SS-EU133-3354	2170 N
			SS-EU143-3357	1980 N
			SS-MW229-3617	2470 E
			SS-MW313-3590	1930 *
			SS-MW314-3593	1830 *
			SS-MW422-3608	2460 *
			SS-MW423-3611	2460 *
			SS-MW424-3620	2670
			SS-MW861-3599	2050
			SS-MW862-3602	2530
			SS-MW863-3605	2180 J
			SS-TWP831-3503	2980
			SS-TWP832-3506	3500 *
			SS-TWP833-3509	3180
			SS-TWP834-3512	3210
			SS-TWP836-3518	1840 *
			SS-TWP837-3521	2490 *
			SS-TWP838-3524	2880
			SS-TWP840-3530	2470 E
			SS-TWP841-3533	2410 *
			SS-TWP842-3536	2700 E
			SS-TWP843-3539	2240 E
			SS-TWP844-3542	1980
			SS-TWP845-3545	2340
			SS-TWP846-3548	2120
			SS-TWP847-3551	2640
			SS-TWP848-3554	2880
			SS-TWP849-3557	2690
			SS-TWP850-3560	3160 *
			SS-TWP851-3563	2750 *
			SS-TWP852-3566	2890
			SS-TWP854-3572	3190
			SS-TWP855-3575	2660
			SS-TWP856-3578	2230
			SS-TWP857-3581	2360
			SS-TWP858-3584	3570
			SS-TWP859-3587	2800
			TS203-2808-020	2660 E

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SD701-293	0.76 BN
			SD702-295	1.2 B
			SD703-297	1.1
			SD704-302	0.99 BN
			SD711-317	1.1
			SD712-319	1.7 N
			SD713-324	0.91 BN
			SD714-326	0.84 BN
			SD723-349	1.3 B
			SD724-351	1.4 B
			SD725-353	1.8 B
			SD732-370	2.2 N
			SD733-373	1.7 N
			SS102-685	0.99 B
			SS103-686	0.834 B
			SS202-002	0.64 B
			SS204-004	1.7 B
			SS206-009	1.5 N
			SS207-010	1.1 B
			SS208-011	0.65 B
			SS209-012	1
			SS213-017	0.91 BN
			SS215-019	0.7 BN
			SS217-021	1.1
			SS2B001-532	1.38 B
			SS2B002-534	3.13 B
			SS2B003-535	1.44 B
			SS302-026	1.1
			SS303-027	0.85 B
			SS304-028	1 BN
			SS306-030	0.52 B
			SS308-032	1.1 N
			SS309-033	0.81 BN
			SS310-034	0.99
			SS311-035	1.6
			SS402-039	5.4 B
			SS403-040	0.87 B
			SS404-041	1.5
			SS405-042	1
			SS406-043	0.69 BN
			SS407-044	1.3
			SS408-045	1.2
			SS409-046	0.73 B
			SS410-047	1

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SS411-048	1.3
			SS412-049	0.53 B
			SS413-050	1.1
			SS415-052	0.97 B
			SS416-053	0.65 B
			SS417-054	1.2
			SS418-055	0.99 B
			SS419-056	0.73 BN
			SS421-058	0.62 BN
			SS423-689	0.944 B
			SS4A008-606	1.16 B
			SS4A010-608	1.06 B
			SS4A012-611	2.28
			SS4B003-614	0.983 B
			SS4B005-616	0.981 B
			SS4C001-618	0.581 B
			SS4D005-619	1.08 B
			SS4D007-621	1.34
			SS4D008-623	1.14 B
			SS501-059	1.1
			SS503-064	1.3
			SS504-692	1.05 B
			SS505-694	1.47 B
			SS601-065	0.56 B
			SS604-069	2.3 B
			SS605-697	0.701 B
			SS607-699	0.79 B
			SS801-070	0.49 B
			SS802-071	0.67 B
			SS803-072	1.3
			SS804-073	1.3
			SS805-074	1.8 B
			SS806-075	1.3 B
			SS808-077	5.8 B
			SS810-079	0.84 B
			SS813-700	0.902 B
			SS816-703	5.25
			SS819-706	0.845 B
			SS822-710	0.685 B
			SS825-713	0.558 B
			SS901-2079	0.515 BN
			SS902-2081	0.468 BN
			SS903-2083	1.12
			SS905-2089	1.76

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SS906-2091	1.01
			SS907-2093	0.534 BN
			SS908-2095	1.21
			SS909-2097	0.454 B
			SS910-2099	0.591 B
			SS-DRUM01-3369	1.61
			SS-DRUM02-3372	0.65 B
			SS-DRUM04-3378	0.626 B
			SS-DRUM05-3381	1.22
			SS-DRUM06-3395	0.71 B
			SS-DRUM07-3398	0.954 B
			SS-EU011-3327	0.725 B
			SS-EU021-3328	0.794 B
			SS-EU022-3329	0.995 B
			SS-EU031-3330	0.409 B
			SS-EU032-3331	0.577 B
			SS-EU051-3334	2.35
			SS-EU061-3335	0.83 B
			SS-EU062-3336	0.767 B
			SS-EU071-3337	0.58 B
			SS-EU072-3338	0.594 B
			SS-EU081-3339	0.378 B
			SS-EU092-3341	0.572 B
			SS-EU093-3342	0.56 B
			SS-EU103-3345	0.551 B
			SS-EU111-3346	0.509 B
			SS-EU112-3347	0.857 B
			SS-EU113-3348	0.643 B
			SS-EU121-3349	1.89
			SS-EU122-3350	0.666 B
			SS-EU123-3351	0.989 B
			SS-EU131-3352	0.497 B
			SS-EU132-3353	0.869 B
			SS-EU133-3354	0.542 B
			SS-EU141-3355	0.744 B
			SS-EU142-3356	0.934 B
			SS-EU143-3357	0.791 B
			SS-MW229-3617	1.13 N
			SS-MW313-3590	0.545 B
			SS-MW314-3593	0.702 B
			SS-MW422-3608	0.82 B
			SS-MW423-3611	0.456 B
			SS-MW424-3620	1.99 N
			SS-MW861-3599	2.16 N

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SS-MW862-3602	2.02
			SS-MW863-3605	2.58 J
			SS-TWP831-3503	0.375 B
			SS-TWP833-3509	0.447 B
			SS-TWP835-3515	2.46 N
			SS-TWP836-3518	2.38 N
			SS-TWP837-3521	2.46 N
			SS-TWP838-3524	0.371 B
			SS-TWP839-3527	0.402 B
			SS-TWP840-3530	1.42 N
			SS-TWP842-3536	1.19 N
			SS-TWP843-3539	1.06 BN
			SS-TWP844-3542	1.92
			SS-TWP845-3545	2.18
			SS-TWP846-3548	2.13
			SS-TWP847-3551	2.26
			SS-TWP848-3554	2.3 N
			SS-TWP849-3557	1.44 N
			SS-TWP850-3560	2.13 N
			SS-TWP851-3563	2.76 N
			SS-TWP854-3572	0.405 B
			SS-TWP856-3578	0.477 B
			SS-TWP858-3584	0.579 B
			SS-TWP859-3587	0.438 B
			TS203-2808-020	0.88 B
Silver	mg/Kg	0.27	SS2B001-532	0.352 BN
			SS2B002-534	0.361 BN
			SS2B003-535	0.404 BN
			SS403-040	0.34
			SS4C001-618	0.375 B
			SS4D005-619	0.293 E
			SS503-064	0.75 N
			SS505-694	0.341 B
			SS905-2089	0.716 E
			SS-DRUM02-3372	0.273
			SS-EU031-3330	0.291

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Sodium	mg/Kg	286	SD704-302	309 *
			SD725-353	292
			SS202-002	678
			SS208-011	1660
			SS308-032	356 E
			SS402-039	780 E
			SS418-055	766 E
			SS816-703	4690
			SS-DRUM01-3369	2410 *
			SS-DRUM02-3372	4520 *
			SS-DRUM05-3381	328 J
			SS-EU051-3334	1210 E*

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SD701-293	0.1 B
			SD702-295	0.15 B
			SD703-297	0.12 B
			SD704-302	0.13 B
			SD711-317	0.093 B
			SD712-319	0.27
			SD713-324	0.14
			SD714-326	0.16 B
			SD725-353	0.27
			SD732-370	0.31
			SD733-373	0.36
			SD734-375	0.23
			SS102-685	0.221 B
			SS103-686	0.147 B
			SS202-002	0.11 B
			SS204-004	0.39
			SS206-009	0.09 B
			SS207-010	0.12 B
			SS208-011	0.16
			SS209-012	0.1 B
			SS213-017	0.17
			SS215-019	0.09 B
			SS217-021	0.14
			SS2B001-532	0.121 B
			SS2B002-534	0.18 B
			SS2B003-535	0.262 B
			SS302-026	0.07 B
			SS303-027	0.13
			SS304-028	0.11 B
			SS306-030	0.13 B
			SS307-031	0.09 B
			SS308-032	0.16
			SS309-033	0.08 B
			SS310-034	0.099 B
			SS311-035	0.15
			SS401-037	0.07 B
			SS403-040	0.15
			SS404-041	0.09 B
			SS405-042	0.12
			SS406-043	0.1 B
			SS407-044	0.11 B
			SS408-045	0.1 B
			SS409-046	0.13
			SS410-047	0.14

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SS411-048	0.11 B
			SS412-049	0.08 B
			SS413-050	0.16
			SS414-051	0.13 B
			SS415-052	0.15
			SS416-053	0.089 B
			SS417-054	0.2
			SS418-055	0.24
			SS419-056	0.11 B
			SS420-057	0.1 B
			SS421-058	0.14
			SS4A008-606	0.128
			SS4A010-608	0.145
			SS4A012-611	0.135
			SS4B003-614	0.151
			SS4B005-616	0.118
			SS4D005-619	0.202
			SS4D007-621	0.094 B
			SS4D008-623	0.108 B
			SS501-059	0.1 B
			SS502-060	0.07 B
			SS503-064	0.09 B
			SS504-692	0.285 B
			SS601-065	0.15
			SS602-066	0.04 B
			SS603-068	0.07 B
			SS604-069	0.06 B
			SS801-070	0.1 B
			SS802-071	0.09 B
			SS803-072	0.12 B
			SS804-073	0.15
			SS805-074	0.07 B
			SS806-075	0.08 B
			SS807-076	0.06 B
			SS808-077	0.08 B
			SS809-078	0.06 B
			SS810-079	0.13
			SS811-080	0.13
			SS812-084	0.1 B
			SS813-700	0.16 B
			SS816-703	0.032 B
			SS819-706	0.16 B
			SS822-710	0.153 B
			SS901-2079	0.056 B

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SS902-2081	0.124
			SS903-2083	0.106 B
			SS905-2089	0.108 B
			SS906-2091	0.098 B
			SS907-2093	0.138
			SS908-2095	0.131
			SS909-2097	0.123
			SS910-2099	0.128
			SS-DRUM01-3369	0.249 E
			SS-DRUM02-3372	0.115 BE
			SS-DRUM04-3378	0.11 BE
			SS-DRUM05-3381	0.163 E
			SS-DRUM06-3395	0.151
			SS-DRUM07-3398	0.242
			SS-EU011-3327	0.11 BE
			SS-EU021-3328	0.138 E
			SS-EU022-3329	0.12 BE
			SS-EU031-3330	0.099 BE
			SS-EU032-3331	0.125 E
			SS-EU033-3332	0.11 BE
			SS-EU034-3333	0.102 BE
			SS-EU051-3334	0.105 BE
			SS-EU061-3335	0.114 B
			SS-EU062-3336	0.129 E
			SS-EU071-3337	0.141 E
			SS-EU072-3338	0.11 BE
			SS-EU081-3339	0.129 E
			SS-EU091-3340	0.061 BE
			SS-EU092-3341	0.095 BE
			SS-EU093-3342	0.122 E
			SS-EU101-3343	0.109 B
			SS-EU102-3344	0.109 B
			SS-EU103-3345	0.103 B
			SS-EU111-3346	0.121
			SS-EU112-3347	0.165
			SS-EU113-3348	0.125 B
			SS-EU121-3349	0.215
			SS-EU122-3350	0.114 B
			SS-EU123-3351	0.153
			SS-EU131-3352	0.114 B
			SS-EU132-3353	0.145
			SS-EU133-3354	0.099 B
			SS-EU141-3355	0.11
			SS-EU142-3356	0.123

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SS-EU143-3357	0.133
			SS-MW229-3617	0.136
			SS-MW313-3590	0.188 E
			SS-MW314-3593	0.191 E
			SS-MW422-3608	0.175 E
			SS-MW423-3611	0.19 E
			SS-MW424-3620	0.116
			SS-MW861-3599	0.153
			SS-MW862-3602	0.124 E
			SS-MW863-3605	0.199
			SS-TWP830-3500	0.14
			SS-TWP831-3503	0.131
			SS-TWP832-3506	0.13
			SS-TWP833-3509	0.142 E
			SS-TWP834-3512	0.13 E
			SS-TWP835-3515	0.098 B
			SS-TWP836-3518	0.132
			SS-TWP837-3521	0.158
			SS-TWP838-3524	0.11 B
			SS-TWP839-3527	0.14
			SS-TWP840-3530	0.114
			SS-TWP841-3533	0.14 E
			SS-TWP842-3536	0.119
			SS-TWP843-3539	0.126
			SS-TWP844-3542	0.149 E
			SS-TWP845-3545	0.131 E
			SS-TWP846-3548	0.1 BE
			SS-TWP847-3551	0.13 E
			SS-TWP848-3554	0.117
			SS-TWP849-3557	0.144
			SS-TWP850-3560	0.139
			SS-TWP851-3563	0.148
			SS-TWP852-3566	0.129
			SS-TWP853-3569	0.141
			SS-TWP854-3572	0.096 B
			SS-TWP855-3575	0.163
			SS-TWP856-3578	0.13
			SS-TWP857-3581	0.129
			SS-TWP858-3584	0.135 E
			SS-TWP859-3587	0.148 E
			TS203-2808-020	0.189 E

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Vanadium	mg/Kg	34	SD701-293	39.8
			SD725-353	43.3
			SS208-011	40.5
			SS418-055	41.2
			SS502-060	36.7 *
			SS816-703	35.7
			SS903-2083	46.8
			SS907-2093	35.4
			SS-DRUM01-3369	52
			SS-DRUM05-3381	38.2 J
			SS-EU103-3345	34.9 N
			SS-EU112-3347	39.3 N
			SS-EU121-3349	45.8 N
			SS-EU122-3350	41 N
			SS-MW424-3620	34.2 *N
			SS-TWP831-3503	35.2
			SS-TWP832-3506	34.3 *N
			SS-TWP833-3509	36.7
			SS-TWP834-3512	34.4
			SS-TWP844-3542	34.5 N
			SS-TWP847-3551	36.9 N
			SS-TWP848-3554	34.4 *N
			SS-TWP849-3557	46.8 *N
			SS-TWP851-3563	39
			SS-TWP852-3566	37.9
			SS-TWP854-3572	39
			SS-TWP855-3575	37.3
			SS-TWP856-3578	36.7
			SS-TWP857-3581	35.5
			SS-TWP858-3584	36.4
			TS203-2808-020	34.9 N

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Zinc	mg/Kg	78	SD701-293	81
			SD702-295	830
			SD703-297	158
			SD723-349	212 E
			SD725-353	227
			SD734-375	199
			SS207-010	87.8
			SS208-011	495
			SS217-021	270
			SS2B001-532	106
			SS2B002-534	80.9
			SS308-032	208
			SS311-035	186
			SS403-040	85.6 E
			SS404-041	148 *E
			SS405-042	140 *E
			SS406-043	79.4 *
			SS410-047	213
			SS413-050	157
			SS415-052	114
			SS418-055	159
			SS4A010-608	97.8
			SS4A012-611	475
			SS4C001-618	86.2
			SS4D005-619	83.2 *
			SS505-694	84 N
			SS811-080	92.7
			SS816-703	403
			SS906-2091	81.8
			SS-DRUM01-3369	102 *
			SS-DRUM02-3372	109 *
			SS-DRUM04-3378	88.7 *
			SS-DRUM06-3395	113
			SS-EU071-3337	96.8 E*N
			SS-EU072-3338	78.9 E*N
			SS-EU102-3344	81.9
			SS-EU121-3349	112
			SS-EU131-3352	98
			SS-EU132-3353	215
			SS-MW313-3590	92.6 N*
			SS-MW861-3599	341 E
			SS-MW863-3605	348 J
			SS-TWP845-3545	80
			SS-TWP854-3572	80.6

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Zinc	mg/Kg	78	TS203-2808-020	2450
PAHs				
Acenaphthene	μg/Kg	--	SS201-001	40.7 J
			SS2A002-530	34.9 J
			SS2A003-531	296
			SS308-032	5290
			SS3C007-590	3750 J
			SS3C008-591	13300 J
			SS405-042	206 J
			SS4A003-601	2460 JD
			SS4A007-605	6270 JD
			SS-EU081-3339	16.5 J
			SS-MW861-3599	10.9 J
			SS-MW863-3605	13.7 J
			SS-TWP848-3554	64.3
Anthracene	μg/Kg	--	SS201-001	60.4 J
			SS203-003	55.6 J
			SS204-004	43.5 J
			SS2A002-530	48.2
			SS2A003-531	518
			SS308-032	9140
			SS309-033	1590 J
			SS3C003-586	216 J
			SS3C007-590	7280
			SS3C008-591	24700
			SS405-042	240 J
			SS4A003-601	1530 J
			SS4A007-605	6660
			SS-DRUM04-3378	78.5
			SS-MW861-3599	136
			SS-MW863-3605	40.2
			SS-TWP831-3503	8.46 J
			SS-TWP848-3554	77.7
			TS203-2808-020	22.6 J

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzo(a)anthracene	μg/Kg	284	SS201-001	323 J
			SS2A003-531	2430
			SS2B002-534	945 J
			SS308-032	28900 D
			SS309-033	3190
			SS3C002-585	353 J
			SS3C006-589	4750 J
			SS3C007-590	33300 D
			SS3C008-591	73300
			SS3C011-594	16800 J
			SS405-042	1170
			SS417-054	446
			SS4A003-601	17900 D
			SS4A007-605	26900 D
			SS4B001-612	887 J
			SS4D007-621	623
			SS-DRUM04-3378	578
			SS-MW861-3599	900
			SS-TWP848-3554	416
Benzo(a)pyrene	μg/Kg	313	SS201-001	383 J
			SS2A002-530	349
			SS2A003-531	2560
			SS2B002-534	1340 J
			SS308-032	33600 D
			SS309-033	3080
			SS311-035	540 J
			SS3C002-585	408 J
			SS3C006-589	4100 J
			SS3C007-590	34000 D
			SS3C008-591	82500
			SS3C011-594	14900 J
			SS405-042	1830
			SS417-054	508
			SS4A003-601	36000 D
			SS4A007-605	27500 D
			SS4B001-612	2560
			SS4D007-621	670
			SS-DRUM04-3378	1290
			SS-MW861-3599	691
			SS-TWP848-3554	536

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzo(b)fluoranthene	µg/Kg	396	SS201-001	446
			SS2A003-531	2740
			SS2B002-534	3550
			SS308-032	31500 D
			SS309-033	3430
			SS3C002-585	469
			SS3C006-589	5960 J
			SS3C007-590	37700 D
			SS3C008-591	42800 D
			SS3C011-594	20200 J
			SS405-042	1740
			SS417-054	647
			SS4A003-601	29700 E
			SS4A007-605	35000 D
			SS4B001-612	4480
			SS4D007-621	949
			SS-DRUM01-3369	413
			SS-DRUM04-3378	2980
			SS-EU051-3334	561
			SS-MW861-3599	1280
			SS-TWP848-3554	801

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzo(g,h,i)perylene	µg/Kg	--	C5-VS-SO-B300-1	1.7
			SS201-001	215 J
			SS203-003	191 J
			SS206-009	63.4 J
			SS208-011	40.4 J
			SS2A002-530	234
			SS2A003-531	1410
			SS2B002-534	1070 J
			SS308-032	22500 D
			SS309-033	1860
			SS3C002-585	253 J
			SS3C007-590	22400 D
			SS3C008-591	54100
			SS3C011-594	12600 J
			SS405-042	1030
			SS408-045	216 J
			SS412-049	2880 J
			SS413-050	49.3 J
			SS417-054	231 J
			SS4A003-601	19400 E
			SS4A007-605	9820
			SS4B001-612	1460 J
			SS4D007-621	376
			SS-DRUM01-3369	101
			SS-DRUM04-3378	792
			SS-DRUM07-3398	62.5 P
			SS-EU051-3334	176
			SS-EU071-3337	36.8
			SS-EU072-3338	17.4
			SS-EU081-3339	45.7
			SS-EU112-3347	8.39 P
			SS-EU121-3349	18.9
			SS-EU131-3352	11.8
			SS-MW313-3590	55.6
			SS-MW861-3599	300
			SS-MW863-3605	115
			SS-TWP830-3500	8.44
			SS-TWP831-3503	14.4
			SS-TWP832-3506	1.47 J
			SS-TWP833-3509	6.03
			SS-TWP834-3512	3.88
			SS-TWP835-3515	10.3 h
			SS-TWP846-3548	7.63
			SS-TWP847-3551	13.3

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzo(g,h,i)perylene	μg/Kg	--	SS-TWP848-3554	281
			SS-TWP849-3557	2.52
			SS-TWP850-3560	3.75
			SS-TWP851-3563	1.93 Ph
			SS-TWP856-3578	2.99
			SS-TWP858-3584	2.77
			SS-TWP859-3587	2.88
Benzo(k)fluoranthene	μg/Kg	322	SS2A002-530	404
			SS2A003-531	2940
			SS2B002-534	1250 J
			SS308-032	25900 D
			SS309-033	2280
			SS3C002-585	351 J
			SS3C007-590	31000 D
			SS3C008-591	62900
			SS405-042	1410
			SS417-054	595
			SS4A003-601	25900 D
			SS4A007-605	6420
			SS4B001-612	1650
			SS4D007-621	908
			SS-DRUM04-3378	601
Chrysene	μg/Kg	378	SS201-001	440
			SS2A002-530	409
			SS2A003-531	2980
			SS2B002-534	1790
			SS308-032	29400 D
			SS309-033	3100
			SS3C002-585	379 J
			SS3C006-589	4620 J
			SS3C007-590	35700 D
			SS3C008-591	76000
			SS3C011-594	16300 J
			SS405-042	1210
			SS417-054	562
			SS4A003-601	19800 D
			SS4A007-605	26300 D
			SS4B001-612	2380
			SS4D007-621	992
			SS-DRUM04-3378	1090
			SS-MW861-3599	1010
			SS-TWP848-3554	436

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Dibenzo(a,h)anthracene	μg/Kg	--	SS2A002-530	209
			SS308-032	4780
			SS309-033	830 J
			SS3C007-590	9640 JD
			SS3C008-591	22500
			SS4A003-601	7850 D
			SS4A007-605	4010 JD
			SS-MW313-3590	21
			SS-MW861-3599	6.8
			SS-TWP831-3503	2.87
			SS-TWP835-3515	2.77 h
			SS-TWP858-3584	1.43 J
Fluoranthene	μg/Kg	889	SS201-001	892
			SS2A003-531	7210 D
			SS2B002-534	1120 J
			SS308-032	81500 D
			SS309-033	9650
			SS3C002-585	919
			SS3C006-589	11400
			SS3C007-590	80000 D
			SS3C008-591	92400 D
			SS3C011-594	39200
			SS405-042	1920
			SS4A003-601	12700 D
			SS4A007-605	55800 D
			SS-MW861-3599	1760

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Fluorene	µg/Kg	--	SS201-001	35.6 J
			SS2A002-530	27.9 J
			SS2A003-531	263
			SS308-032	4020
			SS309-033	711 J
			SS3C001-584	950 J
			SS3C006-589	4830 J
			SS3C007-590	2630 J
			SS3C008-591	8830 J
			SS3C011-594	15200 J
			SS3C012-596	244 J
			SS3C013-597	226 J
			SS405-042	103 J
			SS4A007-605	2570
			SS-DRUM04-3378	11.6 J
			SS-DRUM07-3398	19.8 J
			SS-MW861-3599	30.7 J
			SS-MW862-3602	7.21 J
			SS-MW863-3605	19.1 J
			SS-TWP848-3554	22.2 J

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Indeno(1,2,3-cd)pyrene	µg/Kg	--	SS201-001	182 J
			SS203-003	188 J
			SS208-011	30.6 J
			SS2A002-530	268
			SS2A003-531	1330
			SS2B001-532	965 J
			SS2B002-534	1600 J
			SS308-032	13800
			SS309-033	1740
			SS3B001-573	2280 J
			SS3C001-584	992 J
			SS3C002-585	220 J
			SS3C006-589	5990 J
			SS3C007-590	19400 D
			SS3C008-591	43600
			SS3C011-594	21200 J
			SS3C012-596	328 J
			SS3C013-597	205 J
			SS404-041	135 J
			SS405-042	980
			SS408-045	154 J
			SS413-050	38.6 J
			SS417-054	240 J
			SS4A003-601	17500
			SS4A007-605	8990
			SS4B001-612	1420 J
			SS4D007-621	387
			SS-DRUM01-3369	332
			SS-DRUM02-3372	39.5
			SS-DRUM04-3378	875
			SS-DRUM05-3381	38.3
			SS-DRUM07-3398	306
			SS-EU051-3334	283
			SS-EU081-3339	48.1
			SS-MW861-3599	387
			SS-MW862-3602	42.4
			SS-MW863-3605	70.9
			SS-TWP848-3554	280

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Naphthalene	μg/Kg	--	SS201-001	343 J
			SS203-003	483
			SS204-004	1330
			SS208-011	23.2 J
			SS2A002-530	46.6
			SS2A003-531	336
			SS2B002-534	2170
			SS2B003-535	1410 J
			SS311-035	181 J
			SS312-036	56.8 J
			SS3A006-561	235 J
			SS405-042	51.7 J
			SS4A007-605	893 J
			SS504-692	292 J
			SS-DRUM06-3395	7 J
			SS-DRUM07-3398	76.7
			SS-EU071-3337	17.3 J
			SS-EU081-3339	9.37 J
			SS-EU102-3344	2.44 JP
			SS-EU121-3349	3.03 JP
			SS-EU131-3352	11.2 J
			SS-MW313-3590	12.6 JP
			SS-TWP835-3515	2.99 Jh
			SS-TWP841-3533	3.44 J
Phenanthrene	μg/Kg	538	SS201-001	642
			SS204-004	988
			SS2A003-531	4360
			SS2B002-534	1050 J
			SS308-032	61800 D
			SS309-033	8550
			SS3C002-585	733
			SS3C006-589	8230
			SS3C007-590	57800 D
			SS3C008-591	71600 D
			SS3C011-594	26500
			SS405-042	1320
			SS4A003-601	6040 D
			SS4A007-605	56300 D
			SS-MW861-3599	624

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Pyrene	μg/Kg	716	SS201-001	925
			SS2A002-530	748
			SS2A003-531	6280 D
			SS308-032	53600 E
			SS3C002-585	940
			SS3C006-589	9810
			SS3C007-590	88000 D
			SS3C008-591	99700 D
			SS3C011-594	33600
			SS405-042	1900
			SS4A003-601	17300 D
			SS4A007-605	62900 D
			SS4B001-612	897 J
			SS-DRUM04-3378	795
			SS-MW861-3599	1420
PCBs				
Aroclor-1254	μg/Kg	--	SD731-368	5.9
			SD734-375	11.3 P
			SS208-011	208
			SS217-021	77.7
			SS4C001-618	714 JP
			SS4D007-621	226
			SS4D008-623	100
			SS4F001-633	28.5 J
			SS4F002-634	28 J
			SS4F003-635	7.8 JP
			SS4F004-636	32.7 JP
			SS811-080	12 P
			SS825-713	6
			SS-DRUM06-3395	20.9
			SS-EU051-3334	4.2
			SS-EU093-3342	2.9 J
			SS-EU102-3344	10.4
			SS-TWP846-3548	2.6 J
			SS-TWP847-3551	3.8 J

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aroclor-1260	µg/Kg	--	SD714-326	8.9 J
			SD732-370	10.5 J
			SD733-373	5.2 J
			SD734-375	12.2
			SS216-020	14.9
			SS217-021	84.5 P
			SS303-027	17.2
			SS309-033	5.5
			SS311-035	20.8
			SS313-687	4 J
			SS403-040	9.8 JP
			SS406-043	69.6
			SS409-046	16
			SS413-050	2030
			SS414-051	154
			SS415-052	110
			SS417-054	1120
			SS418-055	392
			SS4C001-618	14500
			SS4D005-619	320
			SS4D007-621	511
			SS4D008-623	361
			SS4D010-626	2580
			SS4D013-629	162
			SS4D015-631	354
			SS4F001-633	65.3
			SS4F002-634	94.4
			SS4F003-635	24.8 J
			SS4F004-636	19.4 JP
			SS811-080	17.6
			SS825-713	14.7
			SS908-2095	12.7 P
			SS-DRUM01-3369	6.3
			SS-DRUM02-3372	249
			SS-DRUM04-3378	5740
			SS-DRUM05-3381	309
			SS-DRUM06-3395	120
			SS-DRUM07-3398	70200
			SS-EU021-3328	14.7 J
			SS-EU022-3329	3.4 J
			SS-EU051-3334	5.3
			SS-EU071-3337	2.2 J
			SS-EU102-3344	2.13 J
			SS-EU121-3349	4.8 J

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aroclor-1260	µg/Kg	--	SS-EU122-3350	1.4 J
			SS-MW314-3593	4.6 h
			SS-MW422-3608	1230 B
			SS-MW423-3611	7.1 B
			SS-MW424-3620	6
			SS-MW863-3605	3.3 J
			SS-TWP833-3509	4.4
			SS-TWP847-3551	2.2 J
Pesticides				

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
4,4'-DDE	µg/Kg	--	SD723-349	1.8 J
			SS311-035	13.3
			SS313-687	1.1 JP
			SS4C001-618	6 P
			SS4D008-623	3.9
			SS4D013-629	2.7 P
			SS4D015-631	3.4 P
			SS4F003-635	2.6 P
			SS4F004-636	3 P
			SS505-694	0.69 J
			SS825-713	1.2 JP
			SS-DRUM01-3369	3.78
			SS-DRUM02-3372	2.58
			SS-DRUM05-3381	4.33
			SS-DRUM06-3395	10.6
			SS-EU011-3327	2.67
			SS-EU021-3328	3.07 J
			SS-EU022-3329	2.58
			SS-EU031-3330	2.94
			SS-EU072-3338	0.387 J
			SS-EU081-3339	0.538 J
			SS-EU103-3345	0.47 J
			SS-EU121-3349	1.46 J
			SS-EU122-3350	1.21 J
			SS-MW229-3617	0.43 J
			SS-MW314-3593	3.08
			SS-MW862-3602	0.942 J
			SS-MW863-3605	5.33 J
			SS-TWP833-3509	0.302 J
			SS-TWP834-3512	0.636 J
			SS-TWP835-3515	1.33 J
			SS-TWP837-3521	0.655 J
			SS-TWP838-3524	0.681 J
			SS-TWP840-3530	0.438 J
			SS-TWP842-3536	0.361 J
			SS-TWP844-3542	0.305 J
			SS-TWP845-3545	0.335 J
			SS-TWP846-3548	0.594 J
			SS-TWP847-3551	0.892 J
			SS-TWP854-3572	0.423 J
			SS-TWP855-3575	0.303 J
			SS-TWP856-3578	1.95
			SS-TWP859-3587	2.44
			TS809-2904-001	2.9 J

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
4,4'-DDT	µg/Kg	--	SS311-035	18.9
			SS4F003-635	5.4
			SS4F004-636	7.3 P
			SS-DRUM01-3369	4.45
			SS-DRUM06-3395	13.1
			SS-EU011-3327	2.24
			SS-EU022-3329	2.06
			SS-EU031-3330	2.58
			SS-EU081-3339	1.29 J
			SS-EU093-3342	0.739 J
			SS-EU103-3345	2.16
			SS-EU121-3349	2.84
			SS-EU122-3350	2.28
			SS-MW229-3617	2.14
			SS-MW314-3593	1.88
			SS-MW861-3599	2.22
			SS-MW862-3602	1.93
			SS-MW863-3605	12.5
			SS-TWP833-3509	0.8 J
			SS-TWP834-3512	1.96
			SS-TWP835-3515	1.82
			SS-TWP836-3518	1.18 J
			SS-TWP837-3521	1.24 J
			SS-TWP838-3524	0.506 J
			SS-TWP839-3527	1.18 J
			SS-TWP843-3539	2.47
			SS-TWP846-3548	1.19 J
			SS-TWP847-3551	1.28 J
			SS-TWP851-3563	1.31 J
			SS-TWP853-3569	0.587 J
			SS-TWP856-3578	2.56
			SS-TWP859-3587	2.02
Radionuclides				

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Actinium-227	pCi/g	0.08	SD746-2150	8
			SD747-2152	2.22
			SD748-2153	3.6
			SD750-2155	4.29
			SD752-2241	0.906
			SS102-685	0.278
			SS218-400	2.71
			SS219-401	2.72
			SS220-402	1.95
			SS221-403	9.3
			SS314-404	2.28
			SS3A016-572	0.487
			SS3A021-2392	1.43
			SS3A023-2394	1.29
			SS3A024-2395	0.98
			SS3B011-2398	0.758
			SS3C014-2411	1.44
			SS3C015-2412	1.89
			SS3D001-2414	1.24
			SS3D004-2418	2.98
			SS3D006-2420	3.07
			SS4A014-2271	0.607
			SS4B009-2280	2.26
			SS4B021-2295	0.938
			SS4G002-2365	1.33
			SS5A016-2170	1.51
			SS606-698	18.9
			SS6A001-2317	14.2
			SS6B005-2335	1.6
			SS816-703	5.11
			SS821-709	0.341
			SS826-405	0.97
			SS827-406	9.22
			SS829-409	7.34
			SS830-1036	132
			SS8A014-2181	3.6
			SS8B001-2430	1 J
			SS8D003-2190	3.3
			SS8D004-2191	3.5 J
			SS8D006-2193	0.782
			SS8D007-2195	1.32
			SS8D009-2197	24
			SS8F001-2201	3.77
			SS8F003-2203	1.51

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Actinium-227	pCi/g	0.08	SS8F005-2206	1.26
			SS8H001-2443	0.629
			SS913-2105	1.08
			SS-EU061-3335	0.579
			SS-MW313-3590	0.507

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	--	SD701-293	21.4
			SD702-295	8.97
			SD703-297	68.2
			SD704-302	17.8
			SD711-317	66.4
			SD712-319	13.3
			SD713-324	10.6
			SD714-326	15.5
			SD719-341	19.6
			SD723-349	18.1
			SD724-351	20.2
			SD725-353	21.9
			SD731-368	11.3
			SD732-370	11.5
			SD733-373	13.6
			SD734-375	7.05
			SD737-381	16
			SD741-672	16.6
			SD742-674	9.84
			SD743-675	26.5
			SD744-676	13.9
			SD745-677	48.4
			SD911-2101	18.5
			SD912-2103	18.7
			SD914-2108	24.5
			SD915-2109	14.4
			SD916-2113	11.1
			SD917-2115	10.4
			SD918-2117	7.61
			SD-WD1-3406-0.5	10.8
			SS201-001	29.8
			SS202-002	14.1
			SS203-003	121
			SS204-004	8.21
			SS205-008	38.9
			SS206-009	14.5
			SS207-010	16.9
			SS208-011	19.1
			SS209-012	16.1
			SS210-014	14.9
			SS211-015	34.1
			SS212-016	19.6
			SS213-017	16
			SS214-018	21.7

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	--	SS215-019	19.2
			SS216-020	22.8
			SS217-021	13.4
			SS218-400	284
			SS219-401	99.2
			SS220-402	60.3
			SS221-403	3030
			SS301-025	20.6
			SS302-026	15.4
			SS303-027	15.3
			SS304-028	20.9
			SS305-029	16.8
			SS306-030	20.8
			SS307-031	14.3
			SS308-032	84.8
			SS309-033	32.9
			SS310-034	15.2
			SS311-035	56.3
			SS312-036	55.8
			SS314-404	172
			SS401-037	14.5
			SS402-039	92.4
			SS403-040	20.7
			SS404-041	46.5
			SS405-042	19
			SS406-043	31.8
			SS407-044	13.2
			SS408-045	8.91
			SS409-046	14.9
			SS410-047	14
			SS411-048	23.4
			SS412-049	15.6
			SS413-050	21
			SS414-051	9.27
			SS415-052	19.7
			SS416-053	10.8
			SS417-054	20.2
			SS418-055	11.9
			SS419-056	19.8
			SS420-057	15.6
			SS421-058	21
			SS4C003-2299	18.9
			SS501-059	10.3
			SS502-060	23.2

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	--	SS503-064	230
			SS601-065	11.3
			SS602-066	12.6
			SS603-068	15.8
			SS604-069	14.2
			SS801-070	17.7
			SS802-071	16.9
			SS803-072	9.8
			SS804-073	22.1
			SS805-074	21.8
			SS806-075	21.1
			SS807-076	19.8
			SS808-077	19.6
			SS809-078	12
			SS810-079	15.1
			SS811-080	11.7
			SS812-084	12.2
			SS826-405	42.8
			SS827-406	536
			SS829-409	1390
			SS830-1036	3840
			SS901-2079	8.57
			SS902-2081	11.8
			SS903-2083	13.8
			SS904-2087	13.3 J
			SS905-2089	17
			SS906-2091	15.7
			SS907-2093	17.9
			SS908-2095	12.5
			SS909-2097	16
			SS910-2099	12.4
			SS913-2105	83.3
			SS-DRUM01-3369	19.9
			SS-DRUM02-3372	26.1
			SS-DRUM04-3378	12
			SS-DRUM05-3381	11.8 J
			SS-DRUM06-3395	11.2
			SS-DRUM07-3398	12.6
			SS-EU011-3327	11.8
			SS-EU021-3328	12.3
			SS-EU022-3329	9.83
			SS-EU031-3330	15.7
			SS-EU032-3331	8.39
			SS-EU051-3334	14.6

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	--	SS-EU061-3335	26.4
			SS-EU062-3336	12.1
			SS-EU071-3337	6.54
			SS-EU072-3338	13.8
			SS-EU081-3339	13.3
			SS-EU091-3340	7.86
			SS-EU092-3341	5.41
			SS-EU093-3342	7.4
			SS-EU101-3343	19.3
			SS-EU102-3344	9.91
			SS-EU103-3345	7.19
			SS-EU111-3346	11.6
			SS-EU113-3348	8.42
			SS-EU121-3349	22.3
			SS-EU122-3350	10.2
			SS-EU123-3351	17.1 J
			SS-EU141-3355	12.8
			SS-MW229-3617	10.9
			SS-MW313-3590	35.3
			SS-MW314-3593	14
			SS-MW422-3608	12.8
			SS-MW423-3611	11.4
			SS-MW424-3620	8.79
			SS-MW861-3599	9.75
			SS-MW862-3602	8.83
			SS-TWP830-3500	9.9
			SS-TWP831-3503	9.93
			SS-TWP832-3506	18.8
			SS-TWP833-3509	34.6
			SS-TWP834-3512	11
			SS-TWP835-3515	8.35
			SS-TWP836-3518	13.3
			SS-TWP837-3521	8.93
			SS-TWP838-3524	7.39
			SS-TWP839-3527	9.06
			SS-TWP840-3530	9.28
			SS-TWP841-3533	8.37
			SS-TWP842-3536	8.16
			SS-TWP843-3539	13.8
			SS-TWP844-3542	16.2
			SS-TWP845-3545	12.8
			SS-TWP846-3548	9.95
			SS-TWP847-3551	13.2
			SS-TWP848-3554	17.2

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	--	SS-TWP849-3557	11.3
			SS-TWP850-3560	10.7
			SS-TWP851-3563	11.6
			SS-TWP852-3566	12.9
			SS-TWP853-3569	11.8
			SS-TWP854-3572	13.5
			SS-TWP855-3575	7.36
			SS-TWP856-3578	9.19
			SS-TWP857-3581	27.1
			SS-TWP858-3584	11.8
			SS-TWP859-3587	11.7
			TS812-2928-062	19000

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	--	SD701-293	25.5
			SD702-295	19.4
			SD703-297	39.9
			SD704-302	27.1
			SD711-317	38.3
			SD712-319	20.9
			SD713-324	22.9
			SD714-326	23.8
			SD719-341	26.2
			SD723-349	26
			SD724-351	23.8
			SD725-353	31.1
			SD731-368	32.4
			SD732-370	22.8
			SD733-373	17.3
			SD734-375	13
			SD737-381	24.6
			SD741-672	23.5
			SD742-674	17
			SD743-675	30.4
			SD744-676	29.1
			SD745-677	44.1
			SD911-2101	32.8
			SD912-2103	28.9
			SD914-2108	43.4
			SD915-2109	28.9
			SD916-2113	28.2
			SD917-2115	23.3
			SD918-2117	21.1
			SD-WD1-3406-0.5	19.5
			SS201-001	29.5
			SS202-002	23.8
			SS203-003	70.1
			SS204-004	18.1
			SS205-008	25.1
			SS206-009	26.3
			SS207-010	27.7
			SS208-011	23.5
			SS209-012	21.4
			SS210-014	21.5
			SS211-015	30.6
			SS212-016	32.9
			SS213-017	25.1
			SS214-018	23.1

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	--	SS215-019	22
			SS216-020	32
			SS217-021	21.5
			SS218-400	153
			SS219-401	72
			SS220-402	50.4
			SS221-403	1180
			SS301-025	33.9
			SS302-026	19.9
			SS303-027	24.8
			SS304-028	20.4
			SS305-029	21.1
			SS306-030	22.4
			SS307-031	21.3
			SS308-032	47.6
			SS309-033	34.2
			SS310-034	23.1
			SS311-035	37.6
			SS312-036	43.5
			SS314-404	94.2
			SS401-037	21.4
			SS402-039	35
			SS403-040	25
			SS404-041	31.8
			SS405-042	26.8
			SS406-043	29.9
			SS407-044	19.3
			SS408-045	16.2
			SS409-046	26.5
			SS410-047	21.5
			SS411-048	35.4
			SS412-049	20
			SS413-050	20.6
			SS414-051	19.2
			SS415-052	27.3
			SS416-053	16.8
			SS417-054	26.6
			SS418-055	22.2
			SS419-056	21.9
			SS420-057	20.4
			SS421-058	24.9
			SS4C003-2299	24.4
			SS501-059	22.3
			SS502-060	34.3

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	--	SS503-064	219
			SS601-065	15.8
			SS602-066	18.7
			SS603-068	16.9
			SS604-069	20.2
			SS801-070	38.6
			SS802-071	20.8
			SS803-072	20.1
			SS804-073	25.8
			SS805-074	28.5
			SS806-075	28.8
			SS807-076	23.9
			SS808-077	23.3
			SS809-078	19.4
			SS810-079	25.1
			SS811-080	18.3
			SS812-084	15.8
			SS826-405	39.3
			SS827-406	301
			SS829-409	739
			SS830-1036	1830
			SS901-2079	16.6
			SS902-2081	20.8
			SS903-2083	28
			SS904-2087	23.8 J
			SS905-2089	31.4
			SS906-2091	23.3
			SS907-2093	33.2
			SS908-2095	28.4
			SS909-2097	31.3
			SS910-2099	24.1
			SS913-2105	49.7
			SS-DRUM01-3369	17.3
			SS-DRUM02-3372	20.4
			SS-DRUM04-3378	21.8
			SS-DRUM05-3381	17.9 J
			SS-DRUM06-3395	21.3
			SS-DRUM07-3398	19.5
			SS-EU011-3327	21.1
			SS-EU021-3328	17.5
			SS-EU022-3329	17.2
			SS-EU031-3330	25.7
			SS-EU032-3331	15.9
			SS-EU051-3334	10.2

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	--	SS-EU061-3335	20.8
			SS-EU062-3336	19
			SS-EU071-3337	12.8
			SS-EU072-3338	16.1
			SS-EU081-3339	23
			SS-EU091-3340	13.3
			SS-EU092-3341	12.9
			SS-EU093-3342	17.7
			SS-EU101-3343	24.1
			SS-EU102-3344	19.3
			SS-EU103-3345	13
			SS-EU111-3346	21.7
			SS-EU113-3348	24.3
			SS-EU121-3349	27.6
			SS-EU122-3350	23.1
			SS-EU123-3351	25 J
			SS-EU141-3355	20.4
			SS-MW229-3617	19.9
			SS-MW313-3590	36.1
			SS-MW314-3593	21.6
			SS-MW422-3608	22.7
			SS-MW423-3611	20.3
			SS-MW424-3620	17.3
			SS-MW861-3599	21.6
			SS-MW862-3602	20.7
			SS-MW863-3605	16.7
			SS-TWP830-3500	16.7
			SS-TWP831-3503	24.8
			SS-TWP832-3506	29.1
			SS-TWP833-3509	43.5
			SS-TWP834-3512	20.3
			SS-TWP835-3515	14.4
			SS-TWP836-3518	19.8
			SS-TWP837-3521	19.7
			SS-TWP838-3524	26.4
			SS-TWP839-3527	19.9
			SS-TWP840-3530	22.3
			SS-TWP841-3533	23.2
			SS-TWP842-3536	23.5
			SS-TWP843-3539	27.2
			SS-TWP844-3542	27.7
			SS-TWP845-3545	24.3
			SS-TWP846-3548	20.1
			SS-TWP847-3551	24.2

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	--	SS-TWP848-3554	24.9
			SS-TWP849-3557	21.3
			SS-TWP850-3560	20.6
			SS-TWP851-3563	22.5
			SS-TWP852-3566	28.5
			SS-TWP853-3569	25.4
			SS-TWP854-3572	31.1
			SS-TWP855-3575	20.4
			SS-TWP856-3578	20.7
			SS-TWP857-3581	38.5
			SS-TWP858-3584	25.3
			SS-TWP859-3587	20.8
			TS812-2928-062	15100

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/g	0.343	SD714-326	0.399 J
			SD734-375	0.808 J
			SD737-381	0.607 J
			SD746-2150	0.49
			SD748-2153	0.428
			SD752-2241	0.472
			SS1A002-2158	0.35
			SS219-401	0.679
			SS2A006-2369	0.447
			SS2A008-2371	0.47
			SS2B002-534	0.438
			SS2B003-535	0.542
			SS2D001-547	0.572
			SS2D002-548	0.508
			SS2D003-549	0.484
			SS2D004-550	0.542
			SS2D005-551	0.424
			SS2D006-552	0.646
			SS2D008-554	0.433
			SS2D012-2384	0.739
			SS306-030	0.619 J
			SS313-687	0.456
			SS314-404	1.22
			SS3A001-555	0.602
			SS3A002-556	0.611
			SS3A003-557	0.52
			SS3A004-559	0.399
			SS3A005-560	0.474
			SS3A006-561	0.773
			SS3A007-562	0.852
			SS3A013-569	0.579
			SS3A016-572	0.565
			SS3A017-2162	0.719
			SS3A020-2389	0.612
			SS3A021-2392	0.842
			SS3A023-2394	0.806
			SS3B002-575	0.458
			SS3B003-576	0.894
			SS3B004-577	0.557
			SS3B005-578	0.352
			SS3B007-580	0.414
			SS3B010-583	0.515
			SS3B011-2398	1.08
			SS3C001-584	0.466

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/g	0.343	SS3C002-585	0.586
			SS3C003-586	0.4
			SS3C004-587	0.448
			SS3C005-588	0.47
			SS3C006-589	0.484
			SS3C007-590	0.903
			SS3C008-591	0.574
			SS3C014-2411	0.468
			SS3C015-2412	0.548
			SS3C016-2413	0.393
			SS3D001-2414	2.23
			SS3D002-2415	3
			SS3D009-2423	0.366
			SS414-051	1.92 J
			SS417-054	0.351 J
			SS418-055	0.493 J
			SS422-688	1.29
			SS4A002-600	0.429
			SS4A003-601	0.56
			SS4A004-602	0.408
			SS4A007-605	0.817
			SS4A013-2270	0.385
			SS4A016-2275	0.402
			SS4A019-2425	0.533
			SS4B003-614	0.384
			SS4B006-617	0.359
			SS4B008-2279	0.375
			SS4C001-618	0.379
			SS4C006-2303	0.383
			SS4D005-619	0.403
			SS4D006-620	0.379
			SS4D008-623	0.413
			SS4D009-625	0.38
			SS4D010-626	0.431
			SS4D011-627	0.585
			SS4D012-628	0.35
			SS4D013-629	0.439
			SS4D015-631	0.431
			SS4D019-2308	0.347
			SS4D020-2309	0.396
			SS4F001-633	0.374
			SS4F002-634	0.389
			SS4F003-635	0.395
			SS4F005-2311	0.364

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/g	0.343	SS4F007-2313	0.359
			SS504-692	0.864
			SS5A001-637	1.13
			SS5A004-640	1.07
			SS5A010-2164	0.417
			SS5A011-2165	0.402
			SS5A012-2166	0.423
			SS5A013-2167	0.391
			SS601-065	0.406 J
			SS6A003-2320	0.375
			SS6C001-2337	0.357
			SS6C003-2339	0.345
			SS811-080	0.377 J
			SS817-704	1.27
			SS818-705	0.469
			SS829-409	0.848
			SS8B003-2433	0.357
			SS8B006-2436	0.452
			SS8D001-2188	0.449
			SS8D003-2190	1.07
			SS8E002-2199	0.473 J
			SS8F001-2201	0.585
			SS8F005-2206	0.381
			SS8G002-2344	0.435
			SS8G005-2347	0.672
			SS8H001-2443	0.688
			SS8H002-2444	0.388
			SS-DRUM01-3369	0.669
			SS-DRUM02-3372	1.02
			SS-DRUM04-3378	0.377
			SS-DRUM05-3381	0.522 J
			SS-DRUM06-3395	0.506
			SS-DRUM07-3398	0.42
			SS-EU021-3328	0.399
			SS-MW313-3590	0.443
			SS-MW314-3593	0.363

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SB2A005-2240	3.41
			SD703-297	8.52
			SD704-302	1.37
			SD711-317	16
			SD712-319	0.923 J
			SD719-341	1.02
			SD723-349	1.55
			SD725-353	1.16
			SD732-370	1.21
			SD734-375	1.1
			SD737-381	1.3
			SD741-672	1.64
			SD744-676	2.4
			SD745-677	1.52
			SD746-2150	184
			SD747-2152	37.1
			SD748-2153	58.6
			SD749-2154	1.05
			SD750-2155	75.7
			SD752-2241	25.7
			SD911-2101	0.968
			SD914-2108	0.985
			SD915-2109	0.944
			SEDC06-08-2146	5.95
			SS101-684	1.64
			SS102-685	1.07
			SS1A001-2157	0.937
			SS1A002-2158	2.04
			SS1B001-2159	1.02
			SS1B002-2160	1.02
			SS201-001	1.66
			SS202-002	0.988
			SS203-003	1140
			SS205-008	7.87
			SS206-009	1.72
			SS207-010	1.53
			SS209-012	1.42
			SS210-014	1.66
			SS211-015	3.92
			SS212-016	1.71
			SS213-017	1.36
			SS214-018	1.06
			SS215-019	1.41
			SS216-020	1.52

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SS217-021	1.45
			SS218-400	29.6
			SS219-401	24.1
			SS220-402	33.4
			SS221-403	127
			SS2A002-530	0.956
			SS2A004-2173	4.18
			SS2A006-2369	5.46
			SS2A007-2370	1.04
			SS2A008-2371	8.65
			SS2A009-2373	1.34
			SS2B001-532	1.41
			SS2B002-534	3.43
			SS2B003-535	1.81
			SS2B004-536	1.47
			SS2B005-537	1.02
			SS2B006-539	0.997
			SS2B007-540	1.56
			SS2B008-541	1.47
			SS2B009-542	1.08
			SS2B014-2374	126
			SS2B016-2377	1.08
			SS2B018-2379	0.922
			SS2C002-2380	1.65
			SS2D001-547	1.47
			SS2D002-548	1.59
			SS2D003-549	2.13
			SS2D005-551	1.77
			SS2D006-552	1.57
			SS2D007-553	1.83
			SS2D008-554	1.46
			SS2D009-2381	0.994
			SS2D010-2382	1.1
			SS2D011-2383	1.37
			SS2D012-2384	10.7
			SS2D013-2385	5.92
			SS303-027	3.84
			SS304-028	1.61
			SS305-029	1.27
			SS306-030	1.17
			SS308-032	3.56
			SS309-033	2.58
			SS310-034	1.56
			SS311-035	6.58

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SS312-036	7.49
			SS313-687	1.52
			SS314-404	55.4
			SS3A001-555	2.57
			SS3A002-556	4.06
			SS3A003-557	3.2
			SS3A004-559	2.67
			SS3A005-560	3.87
			SS3A006-561	6.31
			SS3A007-562	5.5
			SS3A008-563	2.26
			SS3A009-565	2.86
			SS3A010-566	2.35
			SS3A011-567	1.77
			SS3A012-568	1.97
			SS3A013-569	5.51
			SS3A014-570	1.06
			SS3A015-571	1.13
			SS3A016-572	4.21
			SS3A017-2162	15.1
			SS3A020-2389	8.54
			SS3A021-2392	21
			SS3A022-2393	1.48
			SS3A023-2394	17.6
			SS3A024-2395	10.7
			SS3A025-2397	2.6
			SS3B001-573	1.07
			SS3B002-575	2.05
			SS3B003-576	7.91
			SS3B004-577	4.16
			SS3B005-578	2.94
			SS3B007-580	2.96
			SS3B008-581	0.971
			SS3B010-583	2.84
			SS3B011-2398	12.5
			SS3B012-2401	1.79
			SS3B013-2402	5.7
			SS3B014-2404	1.7
			SS3B015-2405	12.4
			SS3B016-2406	2.32
			SS3B017-2407	2.61
			SS3B018-2409	1.4
			SS3B019-2410	1.24
			SS3C001-584	1.95

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SS3C002-585	2.31
			SS3C003-586	1.51
			SS3C004-587	1.86
			SS3C005-588	1.98
			SS3C006-589	2.65
			SS3C007-590	2.5
			SS3C008-591	1.8
			SS3C011-594	1.36
			SS3C012-596	2.19
			SS3C013-597	1.58
			SS3C014-2411	13.4
			SS3C015-2412	19.6
			SS3C016-2413	1.94
			SS3D001-2414	19.3
			SS3D002-2415	2.03
			SS3D004-2418	50.2
			SS3D006-2420	82.1
			SS3D007-2421	7.3
			SS3D008-2422	1.43 J
			SS3D009-2423	1.77
			SS401-037	1.39
			SS402-039	9.49
			SS403-040	1.58
			SS404-041	4.5
			SS405-042	1.62
			SS406-043	2.15
			SS407-044	1.98
			SS408-045	1.17
			SS409-046	1.28
			SS410-047	1.27
			SS413-050	2.01
			SS414-051	1.64
			SS415-052	1.67
			SS417-054	4.45
			SS418-055	1.35
			SS419-056	1.05
			SS420-057	2.35
			SS422-688	2.33
			SS423-689	1.92
			SS4A001-598	1.64
			SS4A002-600	1.41
			SS4A003-601	5.35
			SS4A004-602	1.87
			SS4A005-603	1.83

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SS4A006-604	1.69
			SS4A007-605	3.27
			SS4A008-606	1.3
			SS4A010-608	1.34
			SS4A011-610	1.92
			SS4A012-611	1.11
			SS4A013-2270	6
			SS4A014-2271	8.48
			SS4A015-2274	7.17
			SS4A016-2275	1.07
			SS4A017-2276	1.17
			SS4A018-2277	1.04
			SS4A019-2425	4.49
			SS4A020-2426	0.994
			SS4B001-612	3.09
			SS4B002-613	2.66
			SS4B003-614	2.14
			SS4B004-615	1.1
			SS4B005-616	1.41
			SS4B006-617	1.72
			SS4B007-2278	1.4
			SS4B008-2279	1.71
			SS4B009-2280	37.5
			SS4B010-2282	7.31
			SS4B012-2284	1.12
			SS4B014-2288	15.2
			SS4B015-2289	2.05
			SS4B016-2290	2.36
			SS4B017-2291	7.14
			SS4B019-2293	1.44
			SS4B020-2294	0.944
			SS4B021-2295	17.6
			SS4C002-2298	5.83
			SS4C003-2299	1.78
			SS4C004-2300	3.72
			SS4C006-2303	1.33
			SS4D005-619	1.73
			SS4D006-620	1.21
			SS4D008-623	1.48
			SS4D009-625	1.15
			SS4D010-626	1.95
			SS4D011-627	2.34
			SS4D012-628	2.69
			SS4D013-629	1.86

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SS4D014-630	1.51
			SS4D015-631	2.32
			SS4D017-2306	4.66
			SS4D018-2307	1.01
			SS4D019-2308	2.95
			SS4D020-2309	1.43
			SS4F001-633	1.18
			SS4F002-634	1.14
			SS4F003-635	1.23
			SS4F004-636	1.26
			SS4F005-2311	1.13
			SS4F007-2313	1.1
			SS4F009-2315	1.18
			SS4G001-2316	1.2
			SS4G002-2365	43.9
			SS501-059	0.993
			SS504-692	6.07
			SS5A010-2164	5.36
			SS5A011-2165	1.92
			SS5A012-2166	4.57
			SS5A013-2167	3.72
			SS5A014-2168	4.79
			SS5A016-2170	13.4
			SS5A021-2214	6.39
			SS606-698	103
			SS607-699	1.3
			SS6A001-2317	285
			SS6A002-2319	1.04 J
			SS6A003-2320	2.24
			SS6A004-2321	1.07
			SS6A005-2323	2.54
			SS6A006-2325	1.34
			SS6A008-2328	1.02
			SS6A009-2329	0.95
			SS6A010-2364	3.39
			SS6B001-2330	2.78
			SS6B003-2332	1.08
			SS6B004-2333	1.12
			SS6B005-2335	29.3
			SS6B006-2336	1.05
			SS6C001-2337	1.17
			SS6C005-2341	1.14
			SS6C006-2342	1.25
			SS801-070	1.81

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SS802-071	1.25
			SS803-072	0.957
			SS805-074	1.5
			SS806-075	1.27
			SS807-076	1.7
			SS812-084	0.942
			SS813-700	1.37
			SS814-701	2.71
			SS815-702	3.07
			SS816-703	299
			SS817-704	2.72
			SS818-705	1.66
			SS819-706	1.05
			SS820-708	2.19
			SS821-709	1.13
			SS824-712	1.08
			SS825-713	1.07
			SS826-405	13.2
			SS827-406	185
			SS829-409	182
			SS830-1036	386
			SS8A002-2174	3.01
			SS8A003-2175	47.9
			SS8A004-2176	6.2
			SS8A005-2177	2.12
			SS8A006-2178	1.05
			SS8A007-2179	1.03
			SS8A008-2180	1.08
			SS8A010-2182	1.24
			SS8A014-2181	67.9
			SS8B001-2430	16.8 J
			SS8B002-2431	1.03
			SS8B003-2433	1.21
			SS8B004-2434	1.09
			SS8B005-2435	1.08
			SS8B006-2436	1.33
			SS8B007-2437	1.15
			SS8B009-2441	1.19
			SS8B010-2442	1.83
			SS8C001-2184	1.86
			SS8C002-2185	1.12
			SS8C003-2186	0.991
			SS8C004-2187	0.939
			SS8D001-2188	3.78

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SS8D003-2190	45.5
			SS8D004-2191	42.2 J
			SS8D005-2192	0.942
			SS8D006-2193	13.4
			SS8D007-2195	14.9
			SS8D008-2196	0.998
			SS8D009-2197	446
			SS8E001-2198	1.27
			SS8E002-2199	1.98 J
			SS8F001-2201	61.5
			SS8F003-2203	45.9
			SS8F005-2206	18.9
			SS8F006-2207	7.32
			SS8F007-2208	1.12
			SS8G001-2343	1.5
			SS8G002-2344	1.35
			SS8G005-2347	1.1
			SS8H001-2443	7.49
			SS8H002-2444	15.1 J
			SS904-2087	0.981
			SS905-2089	2.07
			SS906-2091	1.84
			SS913-2105	17.8
			SS-DRUM01-3369	2.38
			SS-DRUM02-3372	2.54
			SS-DRUM04-3378	1.41
			SS-DRUM06-3395	1.14
			SS-DRUM07-3398	1.78
			SS-EU011-3327	1.49
			SS-EU021-3328	1.31
			SS-EU022-3329	1.04
			SS-EU031-3330	0.988
			SS-EU051-3334	3.56
			SS-EU061-3335	4.1
			SS-EU072-3338	1.46
			SS-EU101-3343	2.69
			SS-EU103-3345	0.956
			SS-EU111-3346	0.977
			SS-EU121-3349	1.46
			SS-EU123-3351	1.39
			SS-EU141-3355	1.06
			SS-MW229-3617	0.933
			SS-MW313-3590	4.51
			SS-MW314-3593	1.42

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	0.921	SS-MW422-3608	1.05 J
			SS-TWP836-3518	1.03
			SS-TWP840-3530	0.952
			SS-TWP841-3533	0.959
			SS-TWP844-3542	1.3
			SS-TWP845-3545	1.17
			SS-TWP847-3551	1.16
			SS-TWP848-3554	1.76
			SS-TWP852-3566	1
			SS-TWP856-3578	0.984 J
			TS203-2808-020	1.64
			TS809-2904-001	3.09
			TS809-2905-007	3.39
			TS812-2928-062	9.64
Radium-228	pCi/g	1.26	SD911-2101	1.5
			SS2D011-2383	1.27
			SS4A015-2274	1.32
			SS5A006-642	1.44
			SS5A010-2164	1.61
			SS5A012-2166	1.5
			SS5A013-2167	1.41
			SS5A014-2168	2.08
			SS5A021-2214	2.43
			SS827-406	1.35
			SS8A014-2181	1.49
			SS8F003-2203	1.27
			SS8F006-2207	3.18
			SS903-2083	1.33

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-228	pCi/g	1.64	SD742-674	1.66
			SD915-2109	1.76
			SS219-401	1.96
			SS313-687	1.72
			SS3A002-556	1.86
			SS4C003-2299	1.7
			SS4D005-619	1.68
			SS5A006-642	2.38
			SS5A010-2164	1.79
			SS5A021-2214	2.01
			SS605-697	1.69
			SS815-702	1.7
			SS827-406	1.74
			SS-EU113-3348	1.71
			SS-EU123-3351	2.08 J
			SS-MW313-3590	1.66
			SS-MW424-3620	1.96
			SS-TWP851-3563	1.69
			SS-TWP852-3566	1.65

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SB2A005-2240	4.88
			SD703-297	10.1
			SD704-302	1.82 J
			SD711-317	11.4
			SD719-341	2.08 J
			SD723-349	2.1 J
			SD743-675	2.12
			SD745-677	8.96
			SD746-2150	230
			SD747-2152	48.1
			SD748-2153	71.4
			SD750-2155	109
			SD752-2241	18.2
			SD915-2109	1.65
			SD-WD1-3406-0.5	1.66
			SEDC06-08-2146	4.86
			SS101-684	1.94
			SS1A002-2158	1.88
			SS201-001	3.48
			SS203-003	6.48
			SS204-004	2.17
			SS205-008	3.47
			SS206-009	1.65
			SS207-010	2.32
			SS208-011	1.79
			SS209-012	2.01
			SS210-014	2.01
			SS211-015	7.39
			SS212-016	2.88
			SS213-017	1.69
			SS216-020	3.13
			SS217-021	2.17
			SS218-400	69.6
			SS219-401	39.2
			SS220-402	8.24
			SS221-403	978
			SS2A004-2173	6.31
			SS2A006-2369	8.04
			SS2A008-2371	14
			SS2A009-2373	2.93
			SS2B002-534	2.54
			SS2B003-535	3.94
			SS2B007-540	2.81
			SS2B008-541	2.76

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SS2B009-542	1.99
			SS2B014-2374	4.3
			SS2C002-2380	2.32
			SS2D001-547	2.75
			SS2D002-548	2.97
			SS2D003-549	3.26
			SS2D005-551	2.39
			SS2D006-552	1.91
			SS2D007-553	1.64
			SS2D008-554	2.84
			SS2D009-2381	1.73
			SS2D011-2383	2.29
			SS2D012-2384	4.2
			SS2D013-2385	3.36
			SS303-027	3.48 J
			SS304-028	1.8 J
			SS306-030	1.87 J
			SS308-032	14.2
			SS309-033	5.64
			SS310-034	1.92 J
			SS311-035	15.6
			SS312-036	10.3
			SS313-687	1.87
			SS314-404	15.8
			SS3A001-555	2.45
			SS3A002-556	7.36
			SS3A003-557	4.18
			SS3A004-559	5.17
			SS3A005-560	7.79
			SS3A006-561	9.35
			SS3A007-562	8.82
			SS3A008-563	2.33
			SS3A009-565	3.21
			SS3A010-566	3.69
			SS3A011-567	2.61
			SS3A012-568	2.25
			SS3A013-569	7.3
			SS3A016-572	5.79
			SS3A017-2162	7.59
			SS3A021-2392	21.8
			SS3A023-2394	11.5
			SS3A024-2395	8.85
			SS3A025-2397	3.87
			SS3B001-573	2.15

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SS3B002-575	3.32
			SS3B003-576	8.65
			SS3B004-577	6.88
			SS3B005-578	3.24
			SS3B007-580	3.09
			SS3B010-583	5.68
			SS3B011-2398	16.9
			SS3B012-2401	2.75
			SS3B013-2402	12.5
			SS3B014-2404	2.71
			SS3B015-2405	9.85
			SS3B016-2406	3.47
			SS3B017-2407	3.09
			SS3B018-2409	1.94
			SS3B019-2410	2.42
			SS3C001-584	3.61
			SS3C002-585	4.23
			SS3C003-586	2.94
			SS3C004-587	2.72
			SS3C005-588	5.23
			SS3C006-589	10.7
			SS3C007-590	10.8
			SS3C008-591	1.83
			SS3C009-592	1.71
			SS3C011-594	1.86
			SS3C012-596	2.44
			SS3C013-597	2.9
			SS3C014-2411	10.1
			SS3C015-2412	87.9
			SS3C016-2413	3.12
			SS3D001-2414	11.2
			SS3D002-2415	2.24
			SS3D004-2418	7.87
			SS3D006-2420	32.9
			SS3D007-2421	7.54
			SS3D008-2422	2.05 J
			SS3D009-2423	2.25
			SS401-037	1.62
			SS402-039	10.8
			SS403-040	2.15
			SS404-041	9.54
			SS406-043	2.27
			SS412-049	2.05
			SS413-050	2.83

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SS414-051	2.09 J
			SS415-052	2.1 J
			SS417-054	2.63 J
			SS422-688	1.79
			SS4A001-598	2.67
			SS4A002-600	1.88
			SS4A003-601	3.62
			SS4A004-602	2.25
			SS4A005-603	2.18
			SS4A006-604	2.05
			SS4A007-605	6.29
			SS4A011-610	3.38
			SS4A012-611	2.72
			SS4A013-2270	11.2
			SS4A014-2271	6.3
			SS4A015-2274	5.36
			SS4A016-2275	1.66
			SS4A019-2425	2.46
			SS4B001-612	4.47
			SS4B002-613	3.7
			SS4B003-614	2.37
			SS4B006-617	1.94
			SS4B007-2278	2.37
			SS4B008-2279	2.14
			SS4B009-2280	8.46
			SS4B010-2282	12.1
			SS4B013-2285	2.22
			SS4B014-2288	2.96
			SS4B015-2289	2.56
			SS4B016-2290	3.32
			SS4B019-2293	1.65
			SS4B021-2295	3.76
			SS4C002-2298	4.21
			SS4C003-2299	1.62
			SS4C004-2300	3.52
			SS4C005-2302	2.55
			SS4C006-2303	1.66
			SS4D005-619	3.25
			SS4D006-620	2.34
			SS4D009-625	2.04
			SS4D010-626	2
			SS4D011-627	2.67
			SS4D012-628	1.87
			SS4D013-629	2.4

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SS4D014-630	2.11
			SS4D015-631	2.97
			SS4D017-2306	3.47
			SS4D019-2308	2.4
			SS4D020-2309	2.24
			SS4F005-2311	1.7
			SS4F006-2312	1.89
			SS4F009-2315	1.77
			SS4G001-2316	1.92
			SS4G002-2365	8.51
			SS505-694	1.97
			SS5A010-2164	4.56
			SS5A011-2165	1.88
			SS5A012-2166	3.37
			SS5A013-2167	3.42
			SS5A014-2168	2.21
			SS5A016-2170	31.3
			SS5A021-2214	4.53
			SS606-698	352
			SS6A001-2317	8.73
			SS6A010-2364	2.69 J
			SS6B005-2335	8.25
			SS805-074	2.79
			SS806-075	1.92
			SS813-700	2.02
			SS814-701	2.62
			SS815-702	4.47
			SS816-703	3.39
			SS818-705	1.8
			SS820-708	3.13
			SS826-405	11.9
			SS827-406	33.3
			SS829-409	5.29
			SS830-1036	304
			SS8A002-2174	3.68
			SS8A003-2175	87.6
			SS8A004-2176	9.79
			SS8A005-2177	3.03
			SS8A014-2181	68.5
			SS8B001-2430	4.11 J
			SS8B005-2435	1.78
			SS8B006-2436	2.71
			SS8B007-2437	2.01
			SS8B009-2441	2.83

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SS8B010-2442	2.33
			SS8C001-2184	1.98
			SS8D001-2188	3.73
			SS8D003-2190	8.94
			SS8D004-2191	58.8 J
			SS8D006-2193	14.1
			SS8D007-2195	9.04
			SS8D009-2197	536
			SS8E001-2198	1.66
			SS8E002-2199	2.12 J
			SS8F001-2201	6.76
			SS8F003-2203	39.4
			SS8F005-2206	40.8
			SS8F006-2207	2.99
			SS8H001-2443	10
			SS8H002-2444	22.5 J
			SS904-2087	1.61 J
			SS905-2089	2.14
			SS906-2091	3.1
			SS913-2105	30.5
			SS-DRUM01-3369	2.69
			SS-DRUM02-3372	5.21
			SS-DRUM04-3378	2.26
			SS-DRUM05-3381	1.86 J
			SS-DRUM06-3395	1.73
			SS-DRUM07-3398	2.59
			SS-EU011-3327	2.14
			SS-EU021-3328	1.73
			SS-EU051-3334	2.48
			SS-EU061-3335	8.02
			SS-EU071-3337	1.74
			SS-EU072-3338	2.52
			SS-EU101-3343	6.86
			SS-EU121-3349	2.51
			SS-EU122-3350	1.72
			SS-EU123-3351	2.59 J
			SS-MW229-3617	1.61
			SS-MW313-3590	3.07
			SS-MW314-3593	2.89
			SS-MW422-3608	1.8 J
			SS-MW423-3611	1.92
			SS-MW861-3599	1.67
			SS-TWP835-3515	1.69
			SS-TWP836-3518	2.01

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.6	SS-TWP837-3521	1.62
			SS-TWP841-3533	2.01
			SS-TWP842-3536	1.75
			SS-TWP844-3542	2.58
			SS-TWP845-3545	2.57
			SS-TWP847-3551	2
			SS-TWP848-3554	2.7
			SS-TWP849-3557	2.06 J
			SS-TWP852-3566	2.53
			SS-TWP855-3575	2.7
			SS-TWP856-3578	2.04 J
			TS203-2808-020	3.68
			TS809-2904-001	4.58
			TS809-2905-007	5.95
			TS812-2928-062	14.3

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-232	pCi/g	1.24	SD914-2108	1.46
			SS221-403	2.07
			SS2D003-549	1.46
			SS2D005-551	1.39
			SS2D008-554	1.29
			SS2D011-2383	1.33
			SS3B010-583	1.25
			SS402-039	1.25
			SS417-054	1.25 J
			SS4B016-2290	1.33
			SS4D017-2306	1.32
			SS504-692	1.36
			SS5A006-642	1.73
			SS5A010-2164	1.31
			SS8D009-2197	1.7
			SS8F006-2207	1.33
			SS905-2089	1.52
			SS-DRUM06-3395	1.3
			SS-EU032-3331	1.27
			SS-EU123-3351	1.3 J
			SS-MW314-3593	1.48
			SS-MW424-3620	1.33
			SS-TWP835-3515	1.3
			SS-TWP841-3533	1.39
			SS-TWP842-3536	1.52
			SS-TWP843-3539	1.25
			SS-TWP848-3554	1.54
			SS-TWP849-3557	1.32 J
			SS-TWP852-3566	1.36
			SS-TWP853-3569	1.58
			SS-TWP856-3578	1.36 J
			TS809-2905-007	1.34

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	μg/g	3.94	SD703-297	5.6
			SD719-341	4.13 J
			SD725-353	5.06
			SD741-672	4.89
			SD746-2150	6.35
			SD748-2153	5.11
			SD750-2155	8.04
			SD911-2101	4.45
			SD912-2103	4.36
			SS202-002	6.34
			SS203-003	5.06
			SS207-010	3.96
			SS218-400	49.4
			SS219-401	20.9
			SS220-402	21.1
			SS221-403	44.8
			SS2B003-535	9.59
			SS2B004-536	9.69
			SS2B006-539	6.21
			SS2B007-540	4.44
			SS2B008-541	5.62
			SS2B014-2374	9.96
			SS2B016-2377	4.01
			SS2D009-2381	5.57
			SS2D010-2382	4.6
			SS2D011-2383	7.71
			SS303-027	4.81 J
			SS306-030	4.2 J
			SS308-032	10.4
			SS311-035	5.33
			SS314-404	5.77
			SS3A003-557	4.24
			SS3A004-559	12.1
			SS3A005-560	9.12
			SS3A007-562	4.26
			SS3A012-568	4.26
			SS3A013-569	3.95
			SS3A015-571	4.6
			SS3A016-572	5.36
			SS3A021-2392	4.8
			SS3A024-2395	4.63
			SS3B001-573	4.77
			SS3B003-576	6.25
			SS3B004-577	5.39

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	μg/g	3.94	SS3B005-578	5.44
			SS3B007-580	7.17
			SS3B010-583	5.62
			SS3B011-2398	5.51
			SS3B014-2404	4.4
			SS3B015-2405	16.9
			SS3B016-2406	4.07
			SS3C002-585	4.19
			SS3C005-588	12.4
			SS3C006-589	5.71
			SS3C007-590	9.41
			SS3C010-593	20.9
			SS3C011-594	6.46
			SS3C014-2411	15.4
			SS3C015-2412	330
			SS3D001-2414	6.02
			SS3D004-2418	4.31
			SS3D005-2419	6.72
			SS3D006-2420	1270
			SS3D007-2421	5630
			SS3D008-2422	15
			SS3D009-2423	20.2
			SS402-039	33.1
			SS4A007-605	6.11
			SS4A012-611	8.69
			SS4A013-2270	4.05
			SS4A014-2271	11.4
			SS4A015-2274	10.5
			SS4B001-612	8.97
			SS4B002-613	5.07
			SS4B009-2280	34.3
			SS4B010-2282	6.6
			SS4B014-2288	4.28
			SS4B016-2290	7.76
			SS4C002-2298	7.43
			SS4C003-2299	5.19
			SS4C004-2300	4.15
			SS4D017-2306	3.97
			SS4G002-2365	4.09
			SS502-060	27.1
			SS503-064	366
			SS504-692	27.7
			SS5A001-637	8.97
			SS5A002-638	8.01

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	μg/g	3.94	SS5A006-642	7.6
			SS5A010-2164	7.63
			SS5A012-2166	6
			SS5A013-2167	6.73
			SS5A014-2168	6.81
			SS5A016-2170	4.43
			SS5A021-2214	10
			SS606-698	287
			SS6B005-2335	6.55
			SS804-073	4.41 J
			SS814-701	9.52
			SS815-702	9.23
			SS816-703	8.94
			SS817-704	4.79
			SS818-705	5.52
			SS819-706	55.8
			SS826-405	9.87
			SS827-406	8.35
			SS830-1036	884
			SS8A003-2175	5.86
			SS8A014-2181	4.98
			SS8B005-2435	4.07
			SS8B007-2437	9.69
			SS8B008-2438	15.5
			SS8B010-2442	8.09
			SS8D002-2189	5.61
			SS8D003-2190	5.71
			SS8D004-2191	5.42
			SS8D007-2195	10.9
			SS8D009-2197	19
			SS8F001-2201	4.32
			SS8F003-2203	4.83
			SS8F005-2206	4.33
			SS8F006-2207	6.63
			SS8H001-2443	10.4
			SS8H002-2444	11.3
			SS903-2083	4.01
			SS905-2089	13.5
			SS913-2105	4.07
			SS-DRUM07-3398	4.18
			SS-EU051-3334	5
			SS-EU111-3346	4.14
			SS-EU121-3349	15.4
			SS-EU141-3355	5.73

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	μg/g	3.94	SS-TWP833-3509	40.2
			SS-TWP857-3581	24.3
			TS812-2928-062	2860

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.68	SD703-297	1.94
			SD719-341	1.75
			SD741-672	2.05
			SD746-2150	4.14
			SD748-2153	2.73
			SD750-2155	4.01
			SEDC06-08-2146	2.04
			SS202-002	1.93
			SS218-400	12.1
			SS219-401	7.71
			SS220-402	8.43
			SS221-403	29.7
			SS2A006-2369	1.96
			SS2A008-2371	1.77
			SS2B002-534	1.81
			SS2B003-535	4.44
			SS2B004-536	2.08
			SS2B006-539	2.02
			SS2B007-540	2.41
			SS2B010-543	1.9
			SS2B014-2374	3.68
			SS2D006-552	1.76
			SS2D009-2381	2.23
			SS2D011-2383	3.08
			SS303-027	2.72
			SS308-032	3.66
			SS311-035	1.9
			SS312-036	2.25
			SS314-404	2.98
			SS3A002-556	2.34
			SS3A004-559	2.93
			SS3A005-560	9.03
			SS3A006-561	1.78
			SS3A013-569	2.36
			SS3A016-572	2.01
			SS3B001-573	2.39
			SS3B003-576	2.23
			SS3B004-577	2.59
			SS3B005-578	2.15
			SS3B007-580	2.9
			SS3B010-583	3.42
			SS3B011-2398	2.16
			SS3B013-2402	2.35
			SS3B014-2404	3.67

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.68	SS3B015-2405	7.19
			SS3C002-585	2.09
			SS3C005-588	1.83
			SS3C006-589	2.25
			SS3C007-590	3.89
			SS3C014-2411	8.5
			SS3C015-2412	64.6
			SS3C016-2413	1.98
			SS3D001-2414	2.4
			SS3D002-2415	2.14
			SS3D005-2419	3.45
			SS3D006-2420	371
			SS3D007-2421	1420
			SS3D008-2422	5.02 J
			SS3D009-2423	7.83
			SS402-039	10.1
			SS4A011-610	1.76
			SS4A012-611	2.82
			SS4A013-2270	1.94
			SS4A014-2271	5.31
			SS4A015-2274	4.64
			SS4B001-612	3.63
			SS4B009-2280	11.5
			SS4B010-2282	3.03
			SS4B015-2289	2.09
			SS4B016-2290	3.39
			SS4B021-2295	2.08
			SS4C002-2298	2.46
			SS4C003-2299	2.92
			SS4D012-628	1.69
			SS4D017-2306	1.85
			SS502-060	7.09
			SS503-064	119
			SS504-692	7.66
			SS505-694	1.79
			SS5A001-637	2.51
			SS5A002-638	4.07
			SS5A006-642	2.26
			SS5A010-2164	2.37
			SS5A012-2166	3.4
			SS5A013-2167	3.79
			SS5A016-2170	2.11
			SS5A021-2214	3.4
			SS606-698	42.5

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.68	SS6B005-2335	2.42
			SS804-073	2.11
			SS806-075	1.77
			SS814-701	3.77
			SS815-702	3.71
			SS816-703	2.28
			SS817-704	2.07
			SS818-705	2.63
			SS819-706	15.6
			SS820-708	1.95
			SS826-405	4.05
			SS827-406	3.34
			SS830-1036	89.9
			SS8A003-2175	4.19
			SS8A014-2181	2.38
			SS8B007-2437	4.02
			SS8B010-2442	2.94
			SS8D003-2190	1.75
			SS8D004-2191	2.31 J
			SS8D007-2195	2.34
			SS8D009-2197	9.68
			SS8F001-2201	2.79
			SS8F003-2203	1.86
			SS8F005-2206	1.74
			SS8F006-2207	2.4
			SS8H001-2443	2.89
			SS8H002-2444	3.8 J
			SS905-2089	2.95
			SS-EU051-3334	2.37
			SS-EU121-3349	6
			SS-EU123-3351	1.96 J
			SS-EU141-3355	2.38
			SS-MW313-3590	2.59
			SS-MW314-3593	2.02
			SS-TWP833-3509	18.9
			SS-TWP841-3533	1.85
			SS-TWP845-3545	1.73
			SS-TWP848-3554	2.1
			SS-TWP852-3566	1.92
			SS-TWP855-3575	2.75
			SS-TWP857-3581	11
			TS812-2928-062	8340

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/g	0.0847	SD703-297	0.124 J
			SD712-319	0.109 J
			SD746-2150	0.257
			SD749-2154	0.17
			SD750-2155	0.152
			SD917-2115	0.154
			SD-WD1-3406-0.5	0.404
			SS1A001-2157	0.15
			SS1B002-2160	0.229
			SS202-002	0.14 J
			SS208-011	0.17 J
			SS218-400	0.409
			SS220-402	0.452
			SS221-403	1.2
			SS2B014-2374	0.321
			SS2D011-2383	0.179
			SS2D013-2385	0.269
			SS303-027	0.214 J
			SS306-030	0.124 J
			SS308-032	0.102 J
			SS311-035	0.0862 J
			SS3A005-560	0.329
			SS3A006-561	0.186
			SS3A007-562	0.206
			SS3A021-2392	0.209
			SS3A022-2393	0.168
			SS3B012-2401	0.152
			SS3B015-2405	0.403
			SS3B019-2410	0.26
			SS3C013-597	0.363
			SS3C014-2411	0.433
			SS3C015-2412	2.94
			SS3D001-2414	0.233
			SS3D002-2415	0.283
			SS3D004-2418	0.25
			SS3D005-2419	0.237
			SS3D006-2420	21.1
			SS3D007-2421	96.2
			SS3D008-2422	0.697 J
			SS3D009-2423	0.44
			SS402-039	0.302 J
			SS408-045	0.163 J
			SS4A014-2271	0.252
			SS4A015-2274	0.184

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/g	0.0847	SS4B009-2280	0.309
			SS4B010-2282	0.158
			SS4B014-2288	0.15
			SS4B016-2290	0.229
			SS4B019-2293	0.119
			SS502-060	0.264 J
			SS503-064	6.15
			SS504-692	0.338
			SS5A006-642	0.262
			SS5A011-2165	0.177
			SS5A012-2166	0.507
			SS5A013-2167	0.367
			SS5A014-2168	0.129
			SS5A021-2214	0.221
			SS604-069	0.13 J
			SS606-698	2.13
			SS6A001-2317	0.203
			SS6A009-2329	0.189
			SS6A010-2364	0.148 J
			SS6B001-2330	0.139
			SS6B005-2335	0.252
			SS815-702	0.243
			SS817-704	0.132
			SS819-706	0.625
			SS827-406	0.381
			SS830-1036	3.43
			SS8A003-2175	0.285
			SS8A004-2176	0.154
			SS8A014-2181	0.115
			SS8B001-2430	0.107 J
			SS8B007-2437	0.234
			SS8B010-2442	0.239
			SS8C002-2185	0.106
			SS8D003-2190	0.15
			SS8D007-2195	0.142
			SS8D009-2197	0.394
			SS8F003-2203	0.0978
			SS8F006-2207	0.167
			SS8H001-2443	0.197
			SS8H002-2444	0.404 J
			SS905-2089	0.214
			SS-EU032-3331	0.167
			SS-EU051-3334	0.447
			SS-EU121-3349	0.251

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/g	0.0847	SS-EU141-3355	0.224
			SS-MW314-3593	0.39
			SS-MW424-3620	0.221
			SS-MW861-3599	0.101
			SS-TWP833-3509	0.935
			SS-TWP841-3533	0.293
			SS-TWP845-3545	0.236
			SS-TWP846-3548	0.226
			SS-TWP847-3551	0.473
			SS-TWP848-3554	0.094
			SS-TWP857-3581	0.842
			TS809-2904-001	0.0981
			TS812-2928-062	886

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.36	SD703-297	1.72
			SD719-341	1.49
			SD725-353	1.49
			SD743-675	1.49
			SD746-2150	3.01
			SD748-2153	1.9
			SD750-2155	2.58
			SD912-2103	1.39
			SD914-2108	1.5
			SEDC06-08-2146	3.52
			SS103-686	1.44
			SS201-001	1.37
			SS202-002	1.91
			SS203-003	1.8
			SS207-010	2.15
			SS218-400	12.1
			SS219-401	7.51
			SS220-402	6.8
			SS221-403	26.2
			SS2A004-2173	1.74
			SS2A006-2369	1.95
			SS2A008-2371	1.64
			SS2B002-534	1.78
			SS2B003-535	2.23
			SS2B004-536	2.25
			SS2B006-539	2.26
			SS2B007-540	1.61
			SS2B008-541	1.42
			SS2B014-2374	3.82
			SS2B016-2377	1.52
			SS2D009-2381	2.5
			SS2D011-2383	3.05
			SS303-027	2.42
			SS306-030	1.48
			SS308-032	3.42
			SS311-035	1.75
			SS312-036	2.09
			SS313-687	1.4
			SS314-404	2.37
			SS3A002-556	1.62
			SS3A004-559	4
			SS3A005-560	9.23
			SS3A006-561	1.85
			SS3A007-562	1.52

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.36	SS3A013-569	1.42
			SS3A015-571	1.41
			SS3A020-2389	1.89
			SS3A021-2392	1.47
			SS3A022-2393	1.37
			SS3A024-2395	1.92
			SS3B001-573	2.46
			SS3B003-576	2.49
			SS3B004-577	2.17
			SS3B005-578	1.78
			SS3B007-580	2.49
			SS3B008-581	1.51
			SS3B010-583	2.46
			SS3B011-2398	1.81
			SS3B012-2401	1.65
			SS3B013-2402	2.33
			SS3B014-2404	3.34
			SS3B015-2405	7.86
			SS3B016-2406	1.98
			SS3C002-585	1.56
			SS3C005-588	1.96
			SS3C006-589	2.44
			SS3C007-590	4.03
			SS3C008-591	1.94
			SS3C011-594	1.5
			SS3C014-2411	7.69
			SS3C015-2412	65.9
			SS3C016-2413	1.71
			SS3D001-2414	2.37
			SS3D005-2419	3.77
			SS3D006-2420	373
			SS3D007-2421	1420
			SS3D008-2422	4.7 J
			SS3D009-2423	7.52
			SS402-039	10.1
			SS407-044	1.62
			SS422-688	1.7
			SS4A007-605	1.84
			SS4A009-607	1.72
			SS4A012-611	3.02
			SS4A013-2270	1.87
			SS4A014-2271	4.56
			SS4A015-2274	4.63
			SS4B001-612	2.72

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.36	SS4B009-2280	11
			SS4B010-2282	3.46
			SS4B012-2284	1.47
			SS4B014-2288	1.69
			SS4B015-2289	1.91
			SS4B016-2290	3
			SS4B021-2295	1.89
			SS4C002-2298	2.47
			SS4C003-2299	2.2
			SS4C004-2300	1.74
			SS4D011-627	1.37
			SS4G002-2365	1.77
			SS502-060	6.5
			SS503-064	120
			SS504-692	7.52
			SS505-694	2.17
			SS5A001-637	2.73
			SS5A002-638	4.13
			SS5A004-640	1.42
			SS5A006-642	2.69
			SS5A010-2164	2.5
			SS5A012-2166	2.55
			SS5A013-2167	2.72
			SS5A014-2168	1.82
			SS5A016-2170	1.81
			SS5A021-2214	3.72
			SS606-698	41.5
			SS6A001-2317	1.38
			SS6A009-2329	1.83
			SS6B005-2335	2.62
			SS6C006-2342	1.61
			SS801-070	1.58
			SS804-073	1.79
			SS813-700	1.61
			SS814-701	3.31
			SS815-702	3.13
			SS816-703	2.78
			SS817-704	1.77
			SS818-705	1.84
			SS819-706	14.7
			SS820-708	1.65
			SS821-709	1.38
			SS826-405	3.76
			SS827-406	2.36

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.36	SS830-1036	88.6
			SS8A003-2175	3.18
			SS8A004-2176	1.38
			SS8A014-2181	1.75
			SS8B007-2437	3.7
			SS8B010-2442	2.92
			SS8D003-2190	1.63
			SS8D004-2191	1.85 J
			SS8D007-2195	2.11
			SS8D009-2197	7.1
			SS8F001-2201	1.9
			SS8F003-2203	1.65
			SS8F005-2206	1.51
			SS8F006-2207	1.73
			SS8H001-2443	2.83
			SS8H002-2444	4.04 J
			SS905-2089	2.95
			SS913-2105	1.66
			SS-EU051-3334	2.45
			SS-EU071-3337	1.66
			SS-EU081-3339	1.73
			SS-EU121-3349	5.66
			SS-EU123-3351	1.52 J
			SS-EU141-3355	1.75
			SS-MW313-3590	2.3
			SS-MW314-3593	1.52
			SS-TWP833-3509	21
			SS-TWP834-3512	1.41
			SS-TWP841-3533	1.82
			SS-TWP845-3545	1.66
			SS-TWP848-3554	1.93
			SS-TWP849-3557	1.43
			SS-TWP852-3566	1.67
			SS-TWP854-3572	1.65
			SS-TWP855-3575	2.75
			SS-TWP857-3581	12.2
			SS-TWP858-3584	1.55
			TS812-2928-062	8830
Semivolatile Organics				

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
2-Methylnaphthalene	μg/Kg	--	SS201-001	490
			SS203-003	819
			SS204-004	2050
			SS208-011	29 J
			SS216-020	25.4 J
			SS2A002-530	53.8
			SS2A003-531	449
			SS2B002-534	2950
			SS2B003-535	2080
			SS311-035	269 J
			SS312-036	73.4 J
			SS3A006-561	354 J
			SS504-692	440
			SS-DRUM07-3398	66.7
bis(2-Ethylhexyl)phthalate	μg/Kg	5130	SS4A004-602	7900
Carbazole	μg/Kg	--	SS2A002-530	49.2 J
			SS2A003-531	334 J
			SS308-032	6580
			SS309-033	1140 J
			SS3C007-590	9940 JD
			SS3C008-591	20000
			SS405-042	210 J
			SS4A007-605	6660 JD
			SS-MW861-3599	43.5 J
			SS-MW863-3605	28.7 J
			SS-TWP848-3554	45 J
Volatile Organics				
1,1-Dichloroethene	μg/Kg	--	SS505-694	1.5
			SS910-2099	8.4
			SS-DRUM07-3398	1.12 J
			SS-EU051-3334	0.648 J
			SS-MW314-3593	1.4
			SS-MW861-3599	0.82 J
			SS-MW862-3602	0.666 J
			SS-TWP835-3515	0.714 J
			SS-TWP837-3521	0.9 J
			SS-TWP840-3530	1.02
			SS-TWP844-3542	0.555 J
			SS-TWP850-3560	0.669 J
			SS-TWP851-3563	0.867 J

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
2-Butanone	µg/Kg	--	SS215-019	5.4 J
			SS401-037	6.7
			SS420-057	5.1 J
			SS501-059	6
			SS502-060	6.5
			SS503-064	5.1
			SS602-066	2.6 J
			SS603-068	12
			SS801-070	36.5
			SS805-074	45.9
			SS809-078	9
			SS-TWP830-3500	63.2
			SS-TWP831-3503	86.4
			SS-TWP832-3506	307
			SS-TWP834-3512	6.27
			SS-TWP838-3524	71.9
			SS-TWP839-3527	8.02
			SS-TWP840-3530	9.19
			SS-TWP842-3536	6.19
			SS-TWP845-3545	13.9
			SS-TWP848-3554	8.22
			SS-TWP854-3572	11.7
			SS-TWP856-3578	4.48 J

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Acetone	µg/Kg	--	SD714-326	8 J
			SD731-368	3.2 J
			SD737-381	1.5 J
			SS215-019	6.7
			SS401-037	63.1 B
			SS404-041	23.9
			SS420-057	51.7
			SS501-059	50.2
			SS502-060	65.6
			SS503-064	56.8
			SS602-066	27.2
			SS603-068	98.1
			SS805-074	29.6
			SS806-075	69.4
			SS809-078	71.3
			SS-DRUM01-3369	8.6
			SS-DRUM06-3395	2.46 J
			SS-DRUM07-3398	6.56
			SS-EU022-3329	8.84
			SS-EU112-3347	6.08 J
			SS-MW314-3593	13.7
			SS-MW422-3608	6.92
			SS-MW424-3620	4.21 J
			SS-TWP830-3500	35.5
			SS-TWP831-3503	19.6
			SS-TWP832-3506	21.3
			SS-TWP834-3512	7.3
			SS-TWP838-3524	8.22
			SS-TWP840-3530	16.2
			SS-TWP845-3545	4.19 J
			SS-TWP847-3551	3.93 J
			SS-TWP848-3554	4.21 J
			SS-TWP854-3572	14
			SS-TWP856-3578	9.03
			SS-TWP857-3581	302
			TS203-2808-020	9.8

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzene	μg/Kg	--	SS401-037	2.6
			SS403-040	1.6
			SS404-041	1.5
			SS405-042	1.8
			SS420-057	1.2
			SS502-060	0.54 J
			SS602-066	1.3
			SS603-068	1.4
			SS801-070	2.3
			SS805-074	2.6
			SS806-075	2
			SS807-076	2.6
			SS901-2079	0.15 J
			SS905-2089	0.52 J
Carbon disulfide	μg/Kg	--	SS402-039	9.1
			SS403-040	1.4 J
			SS404-041	4
			SS420-057	2.4 J
			SS501-059	1.2 J
			SS503-064	1.8 J
			SS602-066	2 J
			SS603-068	2.4 J
			SS806-075	1.6 J
Tetrachloroethene	μg/Kg	--	SS216-020	2.7
			SS303-027	0.84 J
			SS415-052	39.1
			SS418-055	10.8
			SS811-080	1.3
			SS-DRUM02-3372	10
			SS-DRUM05-3381	1410
			SS-MW424-3620	3.92
			TS203-2808-020	14.3

* Data qualifier included with concentration value

Table 4-33
Exposure Unit 17
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Toluene	µg/Kg	--	SD723-349	0.21 J
			SD731-368	0.25 J
			SD737-381	0.27 J
			SS201-001	3.7
			SS310-034	5.7
			SS311-035	0.33 J
			SS401-037	3.9
			SS402-039	0.37 J
			SS403-040	1.1
			SS404-041	2.3
			SS405-042	1.6
			SS420-057	2.8
			SS501-059	0.74
			SS503-064	1.5
			SS602-066	1.2
			SS603-068	1.3
			SS801-070	1.8
			SS805-074	1.9
			SS806-075	3.2
			SS807-076	3.4
			SS811-080	2.1
			SS905-2089	0.38 J
			SS-MW424-3620	0.46 J
			SS-TWP831-3503	0.589 J
			SS-TWP832-3506	0.465 J
			SS-TWP848-3554	0.799 J
			SS-TWP849-3557	0.405 J
			SS-TWP850-3560	0.485 J
			TS203-2808-020	0.39 J
Xylenes (total)	µg/Kg	--	SS401-037	1.8 J
			SS404-041	0.99 J
			SS420-057	1 J
			SS503-064	0.39 J
			SS505-694	1.3 J
			SS602-066	0.76 J
			SS801-070	1.1 J
			SS811-080	0.8 J

* Data qualifier included with concentration value

Table 4-34
Background Subsurface Soil (0-10') Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
General Chemistry							
Moisture, Percent	%	4/ 4	14.6	17.2	17.2		D
Percent Solids	%	8/ 8	76.9	84.3	89.6	84.3	N
Total Organic Carbon	mg/Kg	30/ 30	2250	47300	47300	47300	X
Nitroaromatics							
1,3,5-Trinitrobenzene	µg/Kg	0/ 4					O
2,4,6-Trinitrotoluene	µg/Kg	0/ 4					O
2,4-Dinitrotoluene	µg/Kg	0/ 19					O
2,6-Dinitrotoluene	µg/Kg	0/ 19					O
2-Amino-4,6-dinitrotoluene	µg/Kg	0/ 4					O
2-Nitrotoluene	µg/Kg	0/ 4					O
3-Nitrotoluene	µg/Kg	0/ 4					O
4-Amino-2,6-dinitrotoluene	µg/Kg	0/ 4					O
4-Nitrotoluene	µg/Kg	0/ 4					O
HMX	µg/Kg	0/ 4					O
m-Dinitrobenzene	µg/Kg	0/ 4					O
Nitrobenzene	µg/Kg	0/ 19					O
RDX	µg/Kg	0/ 4					O
Tetryl	µg/Kg	0/ 4					O
Metals							
Aluminum	mg/Kg	34/ 34	4380	19100	20600	19100	N
Antimony	mg/Kg	13/ 34	0.26	0.94	0.94	0.94	D
Arsenic	mg/Kg	33/ 33	1.7	11.4	8.73	8.73	G
Barium	mg/Kg	34/ 34	45.2	279	263	263	L
Beryllium	mg/Kg	34/ 34	0.12	1	1.11	1	N
Boron	mg/Kg	29/ 34	1.4	10.1	10.1	10.1	X
Cadmium	mg/Kg	13/ 34	0.04	0.53	0.53	0.53	D
Calcium	mg/Kg	34/ 34	994	58900	58900	58900	X
Chromium	mg/Kg	34/ 34	5.3	25.8	29	25.8	N
Cobalt	mg/Kg	34/ 34	2.2	57.4	36.7	36.7	G
Copper	mg/Kg	34/ 34	4.1	49.3	53.5	49.3	N
Cyanide	mg/Kg	0/ 4					O
Iron	mg/Kg	34/ 34	6240	36400	38600	36400	N
Lead	mg/Kg	33/ 33	2.8	55.2	37.6	37.6	G
Lithium	mg/Kg	34/ 34	4.6	36.8	39.2	36.8	N
Magnesium	mg/Kg	34/ 34	931	14800	15800	14800	N
Manganese	mg/Kg	34/ 34	70	6650	6650	6650	X
Mercury	mg/Kg	13/ 34	0.01	0.27	0.27	0.27	D
Nickel	mg/Kg	34/ 34	5.8	38	38.9	38	N
Potassium	mg/Kg	34/ 34	138	3200	2860	2860	N
Selenium	mg/Kg	8/ 33	0.21	0.37	0.37	0.37	D
Silver	mg/Kg	2/ 34	0.27	0.27	0.27	0.27	D
Sodium	mg/Kg	34/ 34	51.7	331	388	331	G
Thallium	mg/Kg	0/ 34					O
Vanadium	mg/Kg	34/ 34	9.9	35.2	38.7	35.2	N
Zinc	mg/Kg	34/ 34	23.1	266	266	266	X

Table 4-34
Background Subsurface Soil (0-10') Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
PAHs							
Acenaphthene	µg/Kg	1/ 34	79	79	225	79	D
Acenaphthylene	µg/Kg	0/ 34					O
Anthracene	µg/Kg	1/ 34	8	8	225	8	D
Benzo(a)anthracene	µg/Kg	4/ 34	3.7	284	284	284	D
Benzo(a)pyrene	µg/Kg	3/ 34	3.5	313	313	313	D
Benzo(b)fluoranthene	µg/Kg	8/ 34	1.6	396	396	396	D
Benzo(g,h,i)perylene	µg/Kg	2/ 34	4.1	16	225	16	D
Benzo(k)fluoranthene	µg/Kg	5/ 34	0.53	322	322	322	D
Chrysene	µg/Kg	4/ 19	1.6	378	378	378	D
Dibenzo(a,h)anthracene	µg/Kg	1/ 34	2.7	2.7	225	2.7	D
Fluoranthene	µg/Kg	6/ 34	1.3	889	889	889	D
Fluorene	µg/Kg	1/ 34	2.9	2.9	225	2.9	D
Indeno(1,2,3-cd)pyrene	µg/Kg	1/ 34	8.8	8.8	225	8.8	D
Naphthalene	µg/Kg	0/ 34					O
Phenanthrene	µg/Kg	6/ 34	3.5	538	538	538	D
Pyrene	µg/Kg	7/ 34	1.5	716	716	716	D
PCBs							
Aroclor-1016	µg/Kg	0/ 4					O
Aroclor-1221	µg/Kg	0/ 4					O
Aroclor-1232	µg/Kg	0/ 4					O
Aroclor-1242	µg/Kg	0/ 4					O
Aroclor-1248	µg/Kg	0/ 4					O
Aroclor-1254	µg/Kg	0/ 4					O
Aroclor-1260	µg/Kg	0/ 4					O
Pesticides							
4,4'-DDD	µg/Kg	0/ 4					O
4,4'-DDE	µg/Kg	1/ 4	1.4	1.4	1.4		D
4,4'-DDT	µg/Kg	1/ 4	0.65	0.65	0.65		D
Aldrin	µg/Kg	0/ 4					O
alpha-BHC	µg/Kg	0/ 4					O
alpha-Chlordane	µg/Kg	0/ 4					O
beta-BHC	µg/Kg	0/ 4					O
delta-BHC	µg/Kg	0/ 4					O
Dieldrin	µg/Kg	0/ 4					O
Endosulfan I	µg/Kg	0/ 4					O
Endosulfan II	µg/Kg	0/ 4					O
Endosulfan sulfate	µg/Kg	0/ 4					O
Endrin	µg/Kg	0/ 4					O
Endrin aldehyde	µg/Kg	0/ 4					O
Endrin ketone	µg/Kg	0/ 4					O
gamma-BHC (Lindane)	µg/Kg	0/ 4					O
gamma-Chlordane	µg/Kg	0/ 4					O
Heptachlor	µg/Kg	0/ 4					O
Heptachlor epoxide	µg/Kg	1/ 4	0.37	0.37	0.37		D
Methoxychlor	µg/Kg	0/ 4					O
Toxaphene	µg/Kg	0/ 4					O

Table 4-34
Background Subsurface Soil (0-10') Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Radionuclides							
Actinium-227	pCi/g	0/ 30				0.08*	O
Alpha	pCi/g	8/ 8	9.69	15.1	17.7	15.1	N
Americium-241	pCi/g	0/ 30					O
Beta	pCi/g	8/ 8	21.4	28.9	33.6	28.9	N
Cesium-137	pCi/g	14/ 30	0.03	0.34	0.343	0.34	D
Cobalt-60	pCi/g	0/ 30					O
Potassium-40	pCi/g	22/ 22	10	32.9	33	32.9	N
Protactinium-231	pCi/g	0/ 30				0.08*	O
Radium-226	pCi/g	30/ 30	0.39	1.3	1.2	1.2	N
Radium-228	pCi/g	30/ 30	0.37	1.26	1.39	1.26	N
Thorium-228	pCi/g	30/ 30	0.60	1.64	1.69	1.64	N
Thorium-230	pCi/g	30/ 30	0.44	1.62	1.39	1.39	N
Thorium-232	pCi/g	30/ 30	0.37	1.24	1.4	1.24	N
Total Uranium	µg/g	30/ 30	1.22	3.94	3.58	3.58	G
Uranium-234	pCi/g	30/ 30	0.28	1.68	1.66	1.66	G
Uranium-235	pCi/g	1/ 30	0.08	0.08	0.10	0.08	D
Uranium-238	pCi/g	30/ 30	0.37	1.36	1.34	1.34	N
Semivolatile Organics							
1,2,4-Trichlorobenzene	µg/Kg	0/ 19					O
1,2-Dichlorobenzene	µg/Kg	0/ 19					O
1,3-Dichlorobenzene	µg/Kg	0/ 19					O
1,4-Dichlorobenzene	µg/Kg	0/ 19					O
2,4,5-Trichlorophenol	µg/Kg	0/ 19					O
2,4,6-Trichlorophenol	µg/Kg	0/ 19					O
2,4-Dichlorophenol	µg/Kg	0/ 19					O
2,4-Dimethylphenol	µg/Kg	0/ 19					O
2,4-Dinitrophenol	µg/Kg	0/ 19					O
2-Chloronaphthalene	µg/Kg	0/ 19					O
2-Chlorophenol	µg/Kg	0/ 19					O
2-Methyl-4,6-dinitrophenol	µg/Kg	0/ 19					O
2-Methylnaphthalene	µg/Kg	0/ 15					O
2-Nitroaniline	µg/Kg	0/ 19					O
2-Nitrophenol	µg/Kg	0/ 19					O
3,3'-Dichlorobenzidine	µg/Kg	0/ 19					O
3-Nitroaniline	µg/Kg	0/ 19					O
4-Bromophenylphenylether	µg/Kg	0/ 19					O
4-Chloro-3-methylphenol	µg/Kg	0/ 19					O
4-Chloroaniline	µg/Kg	0/ 19					O
4-Chlorophenylphenylether	µg/Kg	0/ 19					O
4-Nitroaniline	µg/Kg	0/ 19					O
4-Nitrophenol	µg/Kg	0/ 19					O
Benzoic acid	µg/Kg	0/ 15					O
bis(2-Chloroethoxy)methane	µg/Kg	0/ 19					O
bis(2-Chloroethyl)ether	µg/Kg	0/ 19					O
bis(2-Chloroisopropyl)ether	µg/Kg	0/ 19					O
bis(2-Ethylhexyl)phthalate	µg/Kg	4/ 19	260	5130	5130	5130	D

Table 4-34
Background Subsurface Soil (0-10') Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Semivolatile Organics (continued)							
Butylbenzylphthalate	µg/Kg	0/ 19					O
Carbazole	µg/Kg	0/ 19					O
Dibenzofuran	µg/Kg	0/ 19					O
Diethylphthalate	µg/Kg	0/ 19					O
Dimethylphthalate	µg/Kg	0/ 19					O
Di-n-butylphthalate	µg/Kg	0/ 19					O
Di-n-octylphthalate	µg/Kg	0/ 19					O
Hexachlorobenzene	µg/Kg	0/ 19					O
Hexachlorobutadiene	µg/Kg	0/ 19					O
Hexachlorocyclopentadiene	µg/Kg	0/ 19					O
Hexachloroethane	µg/Kg	0/ 19					O
Isophorone	µg/Kg	0/ 19					O
m,p-Cresols	µg/Kg	0/ 19					O
N-Nitroso-di-n-propylamine	µg/Kg	0/ 19					O
N-Nitrosodiphenylamine	µg/Kg	0/ 19					O
o-Cresol	µg/Kg	0/ 19					O
Pentachlorophenol	µg/Kg	1/ 19	110	110	225	110	D
Phenol	µg/Kg	0/ 19					O
Volatile Organics							
1,1,1-Trichloroethane	µg/Kg	0/ 4					O
1,1,2,2-Tetrachloroethane	µg/Kg	0/ 4					O
1,1,2-Trichloroethane	µg/Kg	0/ 4					O
1,1-Dichloroethane	µg/Kg	0/ 4					O
1,1-Dichloroethene	µg/Kg	0/ 4					O
1,2-Dichloroethane	µg/Kg	0/ 4					O
1,2-Dichloroethene	µg/Kg	0/ 4					O
1,2-Dichloropropane	µg/Kg	0/ 4					O
2-Butanone	µg/Kg	0/ 4					O
2-Hexanone	µg/Kg	0/ 4					O
4-Methyl-2-pentanone	µg/Kg	0/ 4					O
Acetone	µg/Kg	0/ 4					O
Benzene	µg/Kg	0/ 4					O
Bromodichloromethane	µg/Kg	0/ 4					O
Bromoform	µg/Kg	0/ 4					O
Bromomethane	µg/Kg	0/ 4					O
Carbon disulfide	µg/Kg	0/ 4					O
Carbon tetrachloride	µg/Kg	0/ 4					O
Chlorobenzene	µg/Kg	0/ 4					O
Chloroethane	µg/Kg	0/ 4					O
Chloroform	µg/Kg	0/ 4					O
Chloromethane	µg/Kg	0/ 4					O
cis-1,3-Dichloropropene	µg/Kg	0/ 4					O
Dibromochloromethane	µg/Kg	0/ 4					O
Ethylbenzene	µg/Kg	0/ 4					O
Methylene chloride	µg/Kg	0/ 4					O
Styrene	µg/Kg	0/ 4					O

Table 4-34
Background Subsurface Soil (0-10') Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Volatile Organics (continued)							
Tetrachloroethene	µg/Kg	0/ 4					O
Toluene	µg/Kg	0/ 4					O
trans-1,3-Dichloropropene	µg/Kg	0/ 4					O
Trichloroethene	µg/Kg	0/ 4					O
Vinyl chloride	µg/Kg	0/ 4					O
Xylenes (total)	µg/Kg	0/ 4					O

Substitutions:
*0.08 Uranium-235 SB UTL substituted for Actinium-227 and Protactinium-231 in SB

Dist Codes:
L - Distribution most similar to lognormal
N - Distribution most similar to normal
G - Distribution most similar to gamma
O - No detects, no UTL calculated
X - Distribution significantly different from normal and lognormal
D - Distribution not determined because less than 50% detects or less than 8 detects
Z - Distribution with negative results and therefore treated as normal

Table 4-35
Exposure Unit 1
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	17	4700 *	19600	17
Antimony	mg/Kg	17	0.32 BN	1.04 BN	7
Arsenic	mg/Kg	17	1.68 N	8.81 N	17
Barium	mg/Kg	17	55.1	279 J	17
Beryllium	mg/Kg	17	0.26 BE	0.948	17
Boron	mg/Kg	17	0.91 B	10.9	17
Cadmium	mg/Kg	17	0.076 B	1.1	7
Calcium	mg/Kg	17	3230	58500 *	17
Chromium	mg/Kg	17	6.4	25.4	17
Cobalt	mg/Kg	17	4.2	19.7	17
Copper	mg/Kg	17	16.6 N	146 *N	17
Iron	mg/Kg	17	10500	36900	17
Lead	mg/Kg	17	6.4	37.7 *E	17
Lithium	mg/Kg	17	14.4 E	32.9 E	17
Magnesium	mg/Kg	17	2550 E	12900 *	17
Manganese	mg/Kg	17	280	3670	17
Mercury	mg/Kg	17	0.019	1.1	16
Nickel	mg/Kg	17	8.8 E	46	17
Potassium	mg/Kg	17	697 E	2710 E	17
Selenium	mg/Kg	17	0.27 BN	1.7 N	16
Silver	mg/Kg	17	0.05 BN	0.75 N	12
Sodium	mg/Kg	17	39.1	255 *	17
Thallium	mg/Kg	17	0.07 B	0.285 B	15
Vanadium	mg/Kg	17	10.2	42.5 N	17
Zinc	mg/Kg	17	26.2	84 N	17
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	8	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	8	--	--	0
2,4-Dinitrotoluene	μg/Kg	17	--	--	0
2,6-Dinitrotoluene	μg/Kg	17	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	8	--	--	0
2-Nitrotoluene	μg/Kg	8	--	--	0
3-Dinitrobenzene	μg/Kg	8	--	--	0
3-Nitrotoluene	μg/Kg	8	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	8	--	--	0
4-Nitrotoluene	μg/Kg	8	--	--	0
HMX	μg/Kg	8	--	--	0
Nitrobenzene	μg/Kg	17	--	--	0
RDX	μg/Kg	8	--	--	0
Tetryl	μg/Kg	8	--	--	0
PAHs					
Acenaphthene	μg/Kg	17	--	--	0
Acenaphthylene	μg/Kg	17	--	--	0

* Data qualifier included with concentration value

Table 4-35
Exposure Unit 1
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	17	--	--	0
Benzo(a)anthracene	µg/Kg	17	--	--	0
Benzo(a)pyrene	µg/Kg	17	--	--	0
Benzo(b)fluoranthene	µg/Kg	17	2.5	24.7	2
Benzo(g,h,i)perylene	µg/Kg	17	1.7	1.7	1
Benzo(k)fluoranthene	µg/Kg	17	--	--	0
Chrysene	µg/Kg	17	--	--	0
Dibenzo(a,h)anthracene	µg/Kg	17	--	--	0
Fluoranthene	µg/Kg	17	21.9 J	21.9 J	1
Fluorene	µg/Kg	17	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	17	--	--	0
Naphthalene	µg/Kg	17	292 J	292 J	1
Phenanthrene	µg/Kg	17	2.5	252 J	3
Pyrene	µg/Kg	17	1.6	1.6	1
PCBs					
Aroclor-1016	µg/Kg	13	--	--	0
Aroclor-1221	µg/Kg	13	--	--	0
Aroclor-1232	µg/Kg	13	--	--	0
Aroclor-1242	µg/Kg	13	--	--	0
Aroclor-1248	µg/Kg	13	--	--	0
Aroclor-1254	µg/Kg	13	--	--	0
Aroclor-1260	µg/Kg	13	8.9 J	8.9 J	1
Pesticides					
4,4'-DDD	µg/Kg	13	0.357 J	0.357 J	1
4,4'-DDE	µg/Kg	13	0.69 J	2.67	4
4,4'-DDT	µg/Kg	13	0.711 J	3.47 J	4
Aldrin	µg/Kg	13	--	--	0
alpha-BHC	µg/Kg	13	--	--	0
alpha-Chlordane	µg/Kg	13	--	--	0
beta-BHC	µg/Kg	13	--	--	0
delta-BHC	µg/Kg	13	--	--	0
Dieldrin	µg/Kg	13	0.622 J	0.622 J	1
Endosulfan I	µg/Kg	13	--	--	0
Endosulfan II	µg/Kg	13	--	--	0
Endosulfan sulfate	µg/Kg	13	--	--	0
Endrin	µg/Kg	13	--	--	0
Endrin aldehyde	µg/Kg	13	--	--	0
Endrin ketone	µg/Kg	13	--	--	0
gamma-BHC (Lindane)	µg/Kg	13	--	--	0
gamma-Chlordane	µg/Kg	13	--	--	0
Heptachlor	µg/Kg	13	--	--	0
Heptachlor epoxide	µg/Kg	13	--	--	0
Methoxychlor	µg/Kg	13	--	--	0
Toxaphene	µg/Kg	13	--	--	0

* Data qualifier included with concentration value

Table 4-35
Exposure Unit 1
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	49	1.51	9.39	6
Alpha	pCi/g	12	6.26	230	12
Americium-241	pCi/g	49	0.0301	0.32	2
Beta	pCi/g	12	10.2	219	12
Cesium-137	pCi/g	52	0.0401	1.13	32
Cobalt-60	pCi/g	49	--	--	0
Plutonium-238	pCi/g	1	--	--	0
Plutonium-239/240	pCi/g	1	--	--	0
Potassium-40	pCi/g	20	9.15	48.7	20
Protactinium-231	pCi/g	49	9.43	9.43	1
Radium-226	pCi/g	55	0.67	184	47
Radium-228	pCi/g	49	0.54	2.53	47
Thorium-228	pCi/g	55	0.654	2.38	53
Thorium-230	pCi/g	55	0.698	354	46
Thorium-232	pCi/g	55	0.515	1.73	54
Total Activity	pCi/g	11	--	--	0
Total Uranium	μg/g	55	0.411	366	55
Uranium-234	pCi/g	55	0.532	119	55
Uranium-235	pCi/g	55	0.0701 J	6.15	19
Uranium-238	pCi/g	55	0.534	120	55
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	17	--	--	0
1,2-Dichlorobenzene	μg/Kg	17	--	--	0
1,3-Dichlorobenzene	μg/Kg	17	--	--	0
1,4-Dichlorobenzene	μg/Kg	17	--	--	0
2,4,5-Trichlorophenol	μg/Kg	17	--	--	0
2,4,6-Trichlorophenol	μg/Kg	17	--	--	0
2,4-Dichlorophenol	μg/Kg	17	--	--	0
2,4-Dimethylphenol	μg/Kg	17	--	--	0
2,4-Dinitrophenol	μg/Kg	17	--	--	0
2-Chloronaphthalene	μg/Kg	17	--	--	0
2-Chlorophenol	μg/Kg	17	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	17	--	--	0
2-Methylnaphthalene	μg/Kg	16	440	440	1
2-Nitroaniline	μg/Kg	17	--	--	0
2-Nitrophenol	μg/Kg	17	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	17	--	--	0
3-Nitroaniline	μg/Kg	17	--	--	0
4-Bromophenylphenylether	μg/Kg	17	--	--	0
4-Chloro-3-methylphenol	μg/Kg	17	--	--	0
4-Chloroaniline	μg/Kg	17	--	--	0
4-Chlorophenylphenylether	μg/Kg	17	--	--	0
4-Nitroaniline	μg/Kg	17	--	--	0

* Data qualifier included with concentration value

Table 4-35
Exposure Unit 1
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
4-Nitrophenol	µg/Kg	17	--	--	0
Benzoic Acid	µg/Kg	16	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	17	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	17	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	17	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	17	241 J	332 J	2
Butylbenzylphthalate	µg/Kg	17	--	--	0
Carbazole	µg/Kg	17	--	--	0
Dibenzofuran	µg/Kg	17	--	--	0
Diethylphthalate	µg/Kg	17	--	--	0
Dimethylphthalate	µg/Kg	17	--	--	0
Di-n-butylphthalate	µg/Kg	17	--	--	0
Di-n-octylphthalate	µg/Kg	17	150 J	150 J	1
Diphenylamine	µg/Kg	11	--	--	0
Hexachlorobenzene	µg/Kg	17	--	--	0
Hexachlorobutadiene	µg/Kg	17	--	--	0
Hexachlorocyclopentadiene	µg/Kg	17	--	--	0
Hexachloroethane	µg/Kg	17	--	--	0
Isophorone	µg/Kg	17	--	--	0
m,p-Cresols	µg/Kg	16	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	17	--	--	0
N-Nitrosodiphenylamine	µg/Kg	6	--	--	0
o-Cresol	µg/Kg	17	--	--	0
p-Cresol	µg/Kg	1	--	--	0
Pentachlorophenol	µg/Kg	17	--	--	0
Phenol	µg/Kg	17	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	14	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	14	--	--	0
1,1,2-Trichloroethane	µg/Kg	14	--	--	0
1,1-Dichloroethane	µg/Kg	14	--	--	0
1,1-Dichloroethene	µg/Kg	14	1.5	1.5	1
1,2-Dichloroethane	µg/Kg	14	--	--	0
1,2-Dichloroethene	µg/Kg	1	--	--	0
1,2-Dichloropropane	µg/Kg	14	--	--	0
2-Butanone	µg/Kg	14	5.1	6.5	3
2-Hexanone	µg/Kg	14	--	--	0
4-Methyl-2-pentanone	µg/Kg	14	--	--	0
Acetone	µg/Kg	14	4.22 J	65.6	5
Benzene	µg/Kg	14	0.54 J	0.54 J	1
Bromodichloromethane	µg/Kg	14	--	--	0
Bromoform	µg/Kg	14	--	--	0
Bromomethane	µg/Kg	14	--	--	0
Carbon disulfide	µg/Kg	14	1.2 J	1.8 J	2

* Data qualifier included with concentration value

Table 4-35
Exposure Unit 1
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Carbon tetrachloride	µg/Kg	14	--	--	0
Chlorobenzene	µg/Kg	14	--	--	0
Chloroethane	µg/Kg	14	--	--	0
Chloroform	µg/Kg	14	--	--	0
Chloromethane	µg/Kg	14	--	--	0
cis-1,2-Dichloroethene	µg/Kg	13	--	--	0
cis-1,3-Dichloropropene	µg/Kg	14	--	--	0
Dibromochloromethane	µg/Kg	14	--	--	0
Ethylbenzene	µg/Kg	14	0.58 J	0.58 J	1
Methylene chloride	µg/Kg	14	--	--	0
Styrene	µg/Kg	14	--	--	0
Tetrachloroethene	µg/Kg	14	--	--	0
Toluene	µg/Kg	14	0.74	1.5	2
trans-1,2-Dichloroethene	µg/Kg	13	--	--	0
trans-1,3-Dichloropropene	µg/Kg	14	--	--	0
Trichloroethene	µg/Kg	14	--	--	0
Vinyl chloride	µg/Kg	14	--	--	0
Xylenes (total)	µg/Kg	14	0.39 J	1.3 J	2

* Data qualifier included with concentration value

Table 4-36
Exposure Unit 2
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	23	8310 E	40100	23
Antimony	mg/Kg	23	0.31 BN	1.83 N	11
Arsenic	mg/Kg	23	1.2	8 N*	23
Barium	mg/Kg	23	69 E	481	23
Beryllium	mg/Kg	23	0.36 B	5.2	23
Boron	mg/Kg	23	1.5 B	147	22
Cadmium	mg/Kg	23	0.094 B	0.964	6
Calcium	mg/Kg	23	1930 E	238000 *	23
Chromium	mg/Kg	23	2.9	67	23
Cobalt	mg/Kg	23	0.24 BE	21.8 *	23
Copper	mg/Kg	23	3.1	57.6	23
Iron	mg/Kg	23	2260	39500	23
Lead	mg/Kg	23	3.5	588	23
Lithium	mg/Kg	23	15.7 E	103	23
Magnesium	mg/Kg	23	1750 E	44400	23
Manganese	mg/Kg	23	89.3 E	4070	23
Mercury	mg/Kg	23	0.01 B	1.5 N	23
Nickel	mg/Kg	23	0.65	46.8 *E	23
Potassium	mg/Kg	23	379 E	9150 N	23
Selenium	mg/Kg	23	0.19 BN	5.8 B	22
Silver	mg/Kg	23	0.03 BN	0.34	21
Sodium	mg/Kg	23	38.3	2410 *	23
Thallium	mg/Kg	23	0.06 B	0.249 E	21
Vanadium	mg/Kg	23	5	52	23
Zinc	mg/Kg	23	6.7 E	475	23
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	5	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	5	--	--	0
2,4-Dinitrotoluene	μg/Kg	27	--	--	0
2,6-Dinitrotoluene	μg/Kg	27	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	5	--	--	0
2-Nitrotoluene	μg/Kg	5	--	--	0
3-Dinitrobenzene	μg/Kg	5	--	--	0
3-Nitrotoluene	μg/Kg	5	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	5	--	--	0
4-Nitrotoluene	μg/Kg	5	--	--	0
HMX	μg/Kg	5	--	--	0
Nitrobenzene	μg/Kg	27	--	--	0
RDX	μg/Kg	5	--	--	0
Tetryl	μg/Kg	5	--	--	0
PAHs					
Acenaphthene	μg/Kg	26	51	6270 JD	4
Acenaphthylene	μg/Kg	26	38.2	87	2

* Data qualifier included with concentration value

Table 4-36
Exposure Unit 2
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	26	5.5	6660	4
Benzo(a)anthracene	µg/Kg	26	4.6	26900 D	9
Benzo(a)pyrene	µg/Kg	26	10	36000 D	9
Benzo(b)fluoranthene	µg/Kg	26	5.9	35000 D	10
Benzo(g,h,i)perylene	µg/Kg	26	48	19400 E	7
Benzo(k)fluoranthene	µg/Kg	26	2.5	25900 D	9
Chrysene	µg/Kg	26	7.1	26300 D	9
Dibenzo(a,h)anthracene	µg/Kg	26	4010 JD	7850 D	2
Fluoranthene	µg/Kg	26	23.4 J	55800 D	9
Fluorene	µg/Kg	26	14	2570	3
Indeno(1,2,3-cd)pyrene	µg/Kg	26	8.6	17500	7
Naphthalene	µg/Kg	26	51.7 J	893 J	3
Phenanthrene	µg/Kg	26	27.9	56300 D	8
Pyrene	µg/Kg	26	13	62900 D	9
PCBs					
Aroclor-1016	µg/Kg	12	--	--	0
Aroclor-1221	µg/Kg	12	--	--	0
Aroclor-1232	µg/Kg	12	--	--	0
Aroclor-1242	µg/Kg	12	3.9 J	3.9 J	1
Aroclor-1248	µg/Kg	12	--	--	0
Aroclor-1254	µg/Kg	12	4.8	4.8	1
Aroclor-1260	µg/Kg	12	1.4 J	69.6	7
Pesticides					
4,4'-DDD	µg/Kg	12	0.289 J	2.01	3
4,4'-DDE	µg/Kg	12	0.472 J	3.94	6
4,4'-DDT	µg/Kg	12	0.571 J	4.45	5
Aldrin	µg/Kg	12	--	--	0
alpha-BHC	µg/Kg	12	--	--	0
alpha-Chlordane	µg/Kg	12	--	--	0
beta-BHC	µg/Kg	12	--	--	0
delta-BHC	µg/Kg	12	--	--	0
Dieldrin	µg/Kg	12	0.397 J	0.742 J	2
Endosulfan I	µg/Kg	12	--	--	0
Endosulfan II	µg/Kg	12	--	--	0
Endosulfan sulfate	µg/Kg	12	--	--	0
Endrin	µg/Kg	12	--	--	0
Endrin aldehyde	µg/Kg	12	--	--	0
Endrin ketone	µg/Kg	12	--	--	0
gamma-BHC (Lindane)	µg/Kg	12	--	--	0
gamma-Chlordane	µg/Kg	12	--	--	0
Heptachlor	µg/Kg	12	--	--	0
Heptachlor epoxide	µg/Kg	12	--	--	0
Methoxychlor	µg/Kg	12	--	--	0
Toxaphene	µg/Kg	12	--	--	0

* Data qualifier included with concentration value

Table 4-36
Exposure Unit 2
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	53	0.433	3.77	6
Alpha	pCi/g	21	9.05	92.4	21
Americium-241	pCi/g	53	0.0681	0.0681	1
Beta	pCi/g	21	12.7	36	21
Cesium-137	pCi/g	54	0.0213	0.817	49
Cobalt-60	pCi/g	53	--	--	0
Plutonium-238	pCi/g	2	--	--	0
Plutonium-239/240	pCi/g	2	--	--	0
Potassium-40	pCi/g	23	5.06	24.3	23
Protactinium-231	pCi/g	53	--	--	0
Radium-226	pCi/g	63	0.711	61.5	63
Radium-228	pCi/g	53	0.514	3.18	53
Strontium-90	pCi/g	2	--	--	0
Thorium-228	pCi/g	63	0.558	2.09	61
Thorium-230	pCi/g	63	0.802	40.8	62
Thorium-232	pCi/g	63	0.487	1.33	63
Total Activity	pCi/g	7	--	--	0
Total Uranium	μg/g	63	1.25	33.1	60
Uranium-234	pCi/g	63	0.143	10.1	63
Uranium-235	pCi/g	63	0.0589 J	0.302 J	7
Uranium-238	pCi/g	63	0.134	10.1	61
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	26	--	--	0
1,2-Dichlorobenzene	μg/Kg	26	--	--	0
1,3-Dichlorobenzene	μg/Kg	26	--	--	0
1,4-Dichlorobenzene	μg/Kg	26	--	--	0
2,4,5-Trichlorophenol	μg/Kg	26	--	--	0
2,4,6-Trichlorophenol	μg/Kg	26	--	--	0
2,4-Dichlorophenol	μg/Kg	26	--	--	0
2,4-Dimethylphenol	μg/Kg	26	--	--	0
2,4-Dinitrophenol	μg/Kg	26	--	--	0
2-Chloronaphthalene	μg/Kg	26	--	--	0
2-Chlorophenol	μg/Kg	26	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	26	--	--	0
2-Methylnaphthalene	μg/Kg	25	--	--	0
2-Nitroaniline	μg/Kg	26	--	--	0
2-Nitrophenol	μg/Kg	26	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	26	--	--	0
3-Nitroaniline	μg/Kg	26	--	--	0
4-Bromophenylphenylether	μg/Kg	26	--	--	0
4-Chloro-3-methylphenol	μg/Kg	26	--	--	0
4-Chloroaniline	μg/Kg	26	--	--	0
4-Chlorophenylphenylether	μg/Kg	26	--	--	0

* Data qualifier included with concentration value

Table 4-36
Exposure Unit 2
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
4-Nitroaniline	µg/Kg	26	--	--	0
4-Nitrophenol	µg/Kg	26	--	--	0
Benzoic Acid	µg/Kg	25	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	26	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	26	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	26	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	26	114 J	7900	6
Butylbenzylphthalate	µg/Kg	26	--	--	0
Carbazole	µg/Kg	26	210 J	6660 JD	2
Dibenzofuran	µg/Kg	26	--	--	0
Diethylphthalate	µg/Kg	26	--	--	0
Dimethylphthalate	µg/Kg	26	--	--	0
Di-n-butylphthalate	µg/Kg	26	--	--	0
Di-n-octylphthalate	µg/Kg	26	--	--	0
Diphenylamine	µg/Kg	18	--	--	0
Hexachlorobenzene	µg/Kg	26	--	--	0
Hexachlorobutadiene	µg/Kg	26	--	--	0
Hexachlorocyclopentadiene	µg/Kg	26	--	--	0
Hexachloroethane	µg/Kg	26	--	--	0
Isophorone	µg/Kg	26	--	--	0
m,p-Cresols	µg/Kg	25	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	26	--	--	0
N-Nitrosodiphenylamine	µg/Kg	8	--	--	0
o-Cresol	µg/Kg	26	--	--	0
p-Cresol	µg/Kg	1	--	--	0
Pentachlorophenol	µg/Kg	26	--	--	0
Phenol	µg/Kg	26	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	16	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	16	--	--	0
1,1,2-Trichloroethane	µg/Kg	16	--	--	0
1,1-Dichloroethane	µg/Kg	16	--	--	0
1,1-Dichloroethene	µg/Kg	16	--	--	0
1,2-Dichloroethane	µg/Kg	16	--	--	0
1,2-Dichloroethene	µg/Kg	1	--	--	0
1,2-Dichloropropane	µg/Kg	16	--	--	0
2-Butanone	µg/Kg	16	6.7	125	3
2-Hexanone	µg/Kg	16	4.4	4.4	1
4-Methyl-2-pentanone	µg/Kg	16	--	--	0
Acetone	µg/Kg	16	8.6	406 E	6
Benzene	µg/Kg	16	0.38 J	2.6	5
Bromodichloromethane	µg/Kg	16	--	--	0
Bromoform	µg/Kg	16	--	--	0
Bromomethane	µg/Kg	16	--	--	0

* Data qualifier included with concentration value

Table 4-36
Exposure Unit 2
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Carbon disulfide	μg/Kg	16	1.4 J	60	4
Carbon tetrachloride	μg/Kg	16	--	--	0
Chlorobenzene	μg/Kg	16	--	--	0
Chloroethane	μg/Kg	16	--	--	0
Chloroform	μg/Kg	16	--	--	0
Chloromethane	μg/Kg	16	--	--	0
cis-1,2-Dichloroethene	μg/Kg	15	--	--	0
cis-1,3-Dichloropropene	μg/Kg	16	--	--	0
Dibromochloromethane	μg/Kg	16	--	--	0
Ethylbenzene	μg/Kg	16	18.3	18.3	1
Methylene chloride	μg/Kg	16	140 J	140 J	1
Styrene	μg/Kg	16	--	--	0
Tetrachloroethene	μg/Kg	16	--	--	0
Toluene	μg/Kg	16	0.37 J	6.4	6
trans-1,2-Dichloroethene	μg/Kg	15	--	--	0
trans-1,3-Dichloropropene	μg/Kg	16	--	--	0
Trichloroethene	μg/Kg	16	--	--	0
Vinyl chloride	μg/Kg	16	--	--	0
Xylenes (total)	μg/Kg	16	0.51 J	1.8 J	3

* Data qualifier included with concentration value

Table 4-37
Exposure Unit 3
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	14	7830 J	18700 *	14
Antimony	mg/Kg	14	0.33 BN	0.974 BN	7
Arsenic	mg/Kg	14	1.38	11 *	14
Barium	mg/Kg	14	26.7	196	14
Beryllium	mg/Kg	14	0.346 J	0.887	14
Boron	mg/Kg	14	3.7 B	15	14
Cadmium	mg/Kg	14	0.07 B	0.337 B	6
Calcium	mg/Kg	14	3580	52000	14
Chromium	mg/Kg	14	10.9 J	36.8 E	14
Cobalt	mg/Kg	14	3.8	10.7	14
Copper	mg/Kg	14	19.5	40.5 N	14
Iron	mg/Kg	14	11700	25700 *	14
Lead	mg/Kg	14	3.11 J	70.2	14
Lithium	mg/Kg	14	12 J	23.6	14
Magnesium	mg/Kg	14	2400	12600	14
Manganese	mg/Kg	14	141	957 *	14
Mercury	mg/Kg	13	0.007 B	0.07	10
Nickel	mg/Kg	14	10.8	26.4	14
Potassium	mg/Kg	14	498	3660 E*	14
Selenium	mg/Kg	13	0.354 B	1.3	12
Silver	mg/Kg	14	0.056 J	0.291	14
Sodium	mg/Kg	14	67.8 E	392	14
Thallium	mg/Kg	14	0.095 J	0.199 E	14
Vanadium	mg/Kg	14	17.2	39.7 *	14
Zinc	mg/Kg	14	30.8 J	63.9 *N	14
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/Kg	6	--	--	0
2,4,6-Trinitrotoluene	µg/Kg	6	--	--	0
2,4-Dinitrotoluene	µg/Kg	16	--	--	0
2,6-Dinitrotoluene	µg/Kg	16	--	--	0
2-Amino-4,6-dinitrotoluene	µg/Kg	6	--	--	0
2-Nitrotoluene	µg/Kg	5	--	--	0
3-Dinitrobenzene	µg/Kg	6	--	--	0
3-Nitrotoluene	µg/Kg	6	--	--	0
4-Amino-2,6-dinitrotoluene	µg/Kg	6	--	--	0
4-Nitrotoluene	µg/Kg	6	--	--	0
HMX	µg/Kg	6	--	--	0
Nitrobenzene	µg/Kg	16	--	--	0
RDX	µg/Kg	6	--	--	0
Tetryl	µg/Kg	6	--	--	0
PAHs					
Acenaphthene	µg/Kg	16	--	--	0
Acenaphthylene	µg/Kg	16	--	--	0

* Data qualifier included with concentration value

Table 4-37
Exposure Unit 3
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	16	--	--	0
Benzo(a)anthracene	µg/Kg	16	91.3 J	91.3 J	1
Benzo(a)pyrene	µg/Kg	16	200 J	200 J	1
Benzo(b)fluoranthene	µg/Kg	16	20.1 P	297 J	4
Benzo(g,h,i)perylene	µg/Kg	16	216 J	216 J	1
Benzo(k)fluoranthene	µg/Kg	16	196 J	196 J	1
Chrysene	µg/Kg	16	305 J	305 J	1
Dibenzo(a,h)anthracene	µg/Kg	16	--	--	0
Fluoranthene	µg/Kg	16	26.2 J	253 J	3
Fluorene	µg/Kg	16	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	16	154 J	154 J	1
Naphthalene	µg/Kg	16	--	--	0
Phenanthrene	µg/Kg	16	31.6 J	31.6 J	1
Pyrene	µg/Kg	16	30.8 J	255 J	3
PCBs					
Aroclor-1016	µg/Kg	8	--	--	0
Aroclor-1221	µg/Kg	8	--	--	0
Aroclor-1232	µg/Kg	8	--	--	0
Aroclor-1242	µg/Kg	8	--	--	0
Aroclor-1248	µg/Kg	8	--	--	0
Aroclor-1254	µg/Kg	8	2.9 J	2.9 J	1
Aroclor-1260	µg/Kg	8	2.7 JP	16	3
Pesticides					
4,4'-DDD	µg/Kg	8	0.42 JP	0.52 JP	2
4,4'-DDE	µg/Kg	8	0.23 J	2.94	4
4,4'-DDT	µg/Kg	8	0.725 J	2.58	3
Aldrin	µg/Kg	8	--	--	0
alpha-BHC	µg/Kg	8	--	--	0
alpha-Chlordane	µg/Kg	8	--	--	0
beta-BHC	µg/Kg	8	--	--	0
delta-BHC	µg/Kg	8	--	--	0
Dieldrin	µg/Kg	8	0.32 J	0.33 J	2
Endosulfan I	µg/Kg	8	--	--	0
Endosulfan II	µg/Kg	8	--	--	0
Endosulfan sulfate	µg/Kg	8	0.33 J	0.52 J	2
Endrin	µg/Kg	8	--	--	0
Endrin aldehyde	µg/Kg	8	0.39 J	0.39 J	1
Endrin ketone	µg/Kg	8	0.31 JP	0.43 JP	2
gamma-BHC (Lindane)	µg/Kg	8	--	--	0
gamma-Chlordane	µg/Kg	8	--	--	0
Heptachlor	µg/Kg	8	--	--	0
Heptachlor epoxide	µg/Kg	8	--	--	0
Methoxychlor	µg/Kg	8	1.8 J	2.6 J	2
Toxaphene	µg/Kg	8	--	--	0

* Data qualifier included with concentration value

Table 4-37
Exposure Unit 3
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	39	0.455	2.26	3
Alpha	pCi/g	11	8.39	20	11
Americium-241	pCi/g	39	--	--	0
Beta	pCi/g	10	15.9	26.5	10
Cesium-137	pCi/g	40	0.0311	0.375	20
Cobalt-60	pCi/g	39	--	--	0
Potassium-40	pCi/g	32	5.72	21.3	32
Protactinium-231	pCi/g	39	--	--	0
Radium-226	pCi/g	43	0.516	37.5	43
Radium-228	pCi/g	39	0.427	1.11	39
Thorium-228	pCi/g	43	0.639	2.34	43
Thorium-230	pCi/g	42	0.64	12.1	42
Thorium-232	pCi/g	42	0.519	1.38	42
Total Activity	pCi/g	4	--	--	0
Total Uranium	μg/g	42	0.566	34.3	42
Uranium-234	pCi/g	42	0.421	11.5	39
Uranium-235	pCi/g	42	0.0552 J	0.309	12
Uranium-238	pCi/g	42	0.246	11	40
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	16	--	--	0
1,2-Dichlorobenzene	μg/Kg	16	--	--	0
1,3-Dichlorobenzene	μg/Kg	16	--	--	0
1,4-Dichlorobenzene	μg/Kg	16	--	--	0
2,4,5-Trichlorophenol	μg/Kg	16	--	--	0
2,4,6-Trichlorophenol	μg/Kg	16	--	--	0
2,4-Dichlorophenol	μg/Kg	16	--	--	0
2,4-Dimethylphenol	μg/Kg	16	--	--	0
2,4-Dinitrophenol	μg/Kg	16	--	--	0
2-Chloronaphthalene	μg/Kg	16	--	--	0
2-Chlorophenol	μg/Kg	16	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	16	--	--	0
2-Methylnaphthalene	μg/Kg	16	--	--	0
2-Nitroaniline	μg/Kg	14	--	--	0
2-Nitrophenol	μg/Kg	16	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	16	--	--	0
3-Nitroaniline	μg/Kg	16	--	--	0
4-Bromophenylphenylether	μg/Kg	16	--	--	0
4-Chloro-3-methylphenol	μg/Kg	16	--	--	0
4-Chloroaniline	μg/Kg	16	--	--	0
4-Chlorophenylphenylether	μg/Kg	16	--	--	0
4-Nitroaniline	μg/Kg	16	--	--	0
4-Nitrophenol	μg/Kg	16	--	--	0
Benzoic Acid	μg/Kg	16	--	--	0

* Data qualifier included with concentration value

Table 4-37
Exposure Unit 3
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethoxy)methane	µg/Kg	16	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	16	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	16	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	16	47.6 J	1170 J	6
Butylbenzylphthalate	µg/Kg	16	--	--	0
Carbazole	µg/Kg	16	--	--	0
Dibenzofuran	µg/Kg	16	--	--	0
Diethylphthalate	µg/Kg	16	--	--	0
Dimethylphthalate	µg/Kg	16	--	--	0
Di-n-butylphthalate	µg/Kg	16	--	--	0
Di-n-octylphthalate	µg/Kg	16	--	--	0
Diphenylamine	µg/Kg	10	--	--	0
Hexachlorobenzene	µg/Kg	16	--	--	0
Hexachlorobutadiene	µg/Kg	16	--	--	0
Hexachlorocyclopentadiene	µg/Kg	16	--	--	0
Hexachloroethane	µg/Kg	16	--	--	0
Isophorone	µg/Kg	16	--	--	0
m,p-Cresols	µg/Kg	16	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	16	--	--	0
N-Nitrosodiphenylamine	µg/Kg	6	--	--	0
o-Cresol	µg/Kg	16	--	--	0
Pentachlorophenol	µg/Kg	16	--	--	0
Phenol	µg/Kg	16	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	8	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	8	--	--	0
1,1,2-Trichloroethane	µg/Kg	8	--	--	0
1,1-Dichloroethane	µg/Kg	8	--	--	0
1,1-Dichloroethene	µg/Kg	8	0.95 J	0.95	1
1,2-Dichloroethane	µg/Kg	8	--	--	0
1,2-Dichloropropane	µg/Kg	8	--	--	0
2-Butanone	µg/Kg	8	--	--	0
2-Hexanone	µg/Kg	8	--	--	0
4-Methyl-2-pentanone	µg/Kg	8	--	--	0
Acetone	µg/Kg	8	3 J	11.5	3
Benzene	µg/Kg	8	--	--	0
Bromodichloromethane	µg/Kg	8	--	--	0
Bromoform	µg/Kg	8	--	--	0
Bromomethane	µg/Kg	8	--	--	0
Carbon disulfide	µg/Kg	8	--	--	0
Carbon tetrachloride	µg/Kg	8	--	--	0
Chlorobenzene	µg/Kg	8	--	--	0
Chloroethane	µg/Kg	8	--	--	0
Chloroform	µg/Kg	8	--	--	0

* Data qualifier included with concentration value

Table 4-37
Exposure Unit 3
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chloromethane	µg/Kg	8	--	--	0
cis-1,2-Dichloroethene	µg/Kg	7	--	--	0
cis-1,3-Dichloropropene	µg/Kg	8	--	--	0
Dibromochloromethane	µg/Kg	8	--	--	0
Ethylbenzene	µg/Kg	8	--	--	0
Methylene chloride	µg/Kg	8	--	--	0
o-Xylene	µg/Kg	1	--	--	0
Styrene	µg/Kg	8	--	--	0
Tetrachloroethene	µg/Kg	8	--	--	0
Toluene	µg/Kg	8	0.4 J	1.1	3
trans-1,2-Dichloroethene	µg/Kg	7	--	--	0
trans-1,3-Dichloropropene	µg/Kg	8	--	--	0
Trichloroethene	µg/Kg	7	--	--	0
Vinyl chloride	µg/Kg	8	--	--	0
Xylenes (total)	µg/Kg	8	--	--	0

* Data qualifier included with concentration value

Table 4-38
Exposure Unit 4
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	37	7170	57400	37
Antimony	mg/Kg	36	0.627 BN	3.57 N	7
Arsenic	mg/Kg	37	2 E	17.2 N	37
Barium	mg/Kg	36	68	2670 N*	36
Beryllium	mg/Kg	37	0.354 B	2.2	37
Boron	mg/Kg	37	5.13 B	477	37
Cadmium	mg/Kg	36	0.04 B	0.932 E	17
Calcium	mg/Kg	37	3520	93600 E	37
Chromium	mg/Kg	37	11.4	196	37
Cobalt	mg/Kg	37	5.62 *	15.1 E	37
Copper	mg/Kg	37	24 *	590 J	37
Iron	mg/Kg	37	13700	154000 J	37
Lead	mg/Kg	36	6 *E	686	36
Lithium	mg/Kg	36	7.79 N*	40.4	36
Magnesium	mg/Kg	37	3130	17900	37
Manganese	mg/Kg	37	374	2030 E	37
Mercury	mg/Kg	36	0.01 *	0.284 *	36
Nickel	mg/Kg	37	14.3 E	76.1 *	37
Potassium	mg/Kg	37	1110	9290 E	37
Selenium	mg/Kg	37	0.31 B	1.99 N	37
Silver	mg/Kg	36	0.059 B	0.375 B	31
Sodium	mg/Kg	37	50.2	54800	37
Thallium	mg/Kg	37	0.08 B	0.36 E	36
Vanadium	mg/Kg	37	15.4	49.9 N	37
Zinc	mg/Kg	37	41.7 *N	250	37
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/Kg	15	--	--	0
2,4,6-Trinitrotoluene	µg/Kg	15	--	--	0
2,4-Dinitrotoluene	µg/Kg	47	64.1 J	64.1 J	1
2,6-Dinitrotoluene	µg/Kg	47	--	--	0
2-Amino-4,6-dinitrotoluene	µg/Kg	15	--	--	0
2-Nitrotoluene	µg/Kg	15	--	--	0
3-Dinitrobenzene	µg/Kg	15	--	--	0
3-Nitrotoluene	µg/Kg	15	--	--	0
4-Amino-2,6-dinitrotoluene	µg/Kg	15	--	--	0
4-Nitrotoluene	µg/Kg	15	--	--	0
HMX	µg/Kg	15	--	--	0
Nitrobenzene	µg/Kg	47	--	--	0
RDX	µg/Kg	15	--	--	0
Tetryl	µg/Kg	15	--	--	0
PAHs					
Acenaphthene	µg/Kg	45	257 J	257 J	1
Acenaphthylene	µg/Kg	45	4.33 J	151 J	5

* Data qualifier included with concentration value

Table 4-38
Exposure Unit 4
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	45	21.3 J	420 J	3
Benzo(a)anthracene	µg/Kg	45	1.62 J	623	14
Benzo(a)pyrene	µg/Kg	45	23.2 J	2400	11
Benzo(b)fluoranthene	µg/Kg	45	3.32 J	2980	13
Benzo(g,h,i)perylene	µg/Kg	45	29.1 P	2880 J	8
Benzo(k)fluoranthene	µg/Kg	45	16.1	1240	9
Chrysene	µg/Kg	45	2.38 J	1090	15
Dibenzo(a,h)anthracene	µg/Kg	45	--	--	0
Fluoranthene	µg/Kg	45	6.34 P	2760	19
Fluorene	µg/Kg	45	4.96 J	178 JB	4
Indeno(1,2,3-cd)pyrene	µg/Kg	45	38.3	875	8
Naphthalene	µg/Kg	45	5.16 J	76.7	4
Phenanthrene	µg/Kg	45	20.9 J	2290	13
Pyrene	µg/Kg	45	3.33 J	2130	18
PCBs					
Aroclor-1016	µg/Kg	41	--	--	0
Aroclor-1221	µg/Kg	41	--	--	0
Aroclor-1232	µg/Kg	41	--	--	0
Aroclor-1242	µg/Kg	41	--	--	0
Aroclor-1248	µg/Kg	41	--	--	0
Aroclor-1254	µg/Kg	41	7.9	714 JP	11
Aroclor-1260	µg/Kg	41	4 J	70200	34
Pesticides					
4,4'-DDD	µg/Kg	41	0.26 J	0.41	2
4,4'-DDE	µg/Kg	41	0.19 JP	10.6	15
4,4'-DDT	µg/Kg	41	1.2 J	13.1	4
Aldrin	µg/Kg	41	--	--	0
alpha-BHC	µg/Kg	41	0.27 J	0.27 J	1
alpha-Chlordane	µg/Kg	41	--	--	0
beta-BHC	µg/Kg	41	0.33 JP	0.38 J	2
delta-BHC	µg/Kg	41	0.47 JP	0.91	2
Dieldrin	µg/Kg	41	0.92 JP	0.92 JP	1
Endosulfan I	µg/Kg	41	--	--	0
Endosulfan II	µg/Kg	41	--	--	0
Endosulfan sulfate	µg/Kg	41	0.4 JP	0.99 J	3
Endrin	µg/Kg	41	--	--	0
Endrin aldehyde	µg/Kg	41	0.78 JP	0.84 JP	2
Endrin ketone	µg/Kg	41	--	--	0
gamma-BHC (Lindane)	µg/Kg	41	0.34 J	0.64 J	2
gamma-Chlordane	µg/Kg	41	--	--	0
Heptachlor	µg/Kg	41	--	--	0
Heptachlor epoxide	µg/Kg	41	--	--	0
Methoxychlor	µg/Kg	41	20.3	20.3	1
Toxaphene	µg/Kg	42	--	--	0

* Data qualifier included with concentration value

Table 4-38
Exposure Unit 4
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	61	--	--	0
Alpha	pCi/g	29	7.15	26.1	29
Americium-241	pCi/g	61	0.035	0.104	2
Beta	pCi/g	29	15.9	35.4	29
Cesium-137	pCi/g	69	0.0331	1.92 J	53
Cobalt-60	pCi/g	61	--	--	0
Plutonium-238	pCi/g	10	--	--	0
Plutonium-239/240	pCi/g	10	--	--	0
Potassium-40	pCi/g	27	2.34	20.8	27
Protactinium-231	pCi/g	61	--	--	0
Radium-226	pCi/g	71	0.555	5.83	69
Radium-228	pCi/g	61	0.292	1.18	59
Strontium-90	pCi/g	10	--	--	0
Thorium-228	pCi/g	71	0.33	1.96	66
Thorium-230	pCi/g	72	0.732	5.21	71
Thorium-232	pCi/g	72	0.102	1.38	71
Total Activity	pCi/g	14	--	--	0
Total Uranium	μg/g	72	0.411	7.43	72
Uranium-234	pCi/g	71	0.275	15.2	67
Uranium-235	pCi/g	71	0.0726 J	0.64	5
Uranium-238	pCi/g	72	0.424	2.73	70
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	45	--	--	0
1,2-Dichlorobenzene	μg/Kg	45	--	--	0
1,3-Dichlorobenzene	μg/Kg	45	--	--	0
1,4-Dichlorobenzene	μg/Kg	45	--	--	0
2,4,5-Trichlorophenol	μg/Kg	45	--	--	0
2,4,6-Trichlorophenol	μg/Kg	44	--	--	0
2,4-Dichlorophenol	μg/Kg	45	--	--	0
2,4-Dimethylphenol	μg/Kg	45	--	--	0
2,4-Dinitrophenol	μg/Kg	45	--	--	0
2-Chloronaphthalene	μg/Kg	45	--	--	0
2-Chlorophenol	μg/Kg	45	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	45	--	--	0
2-Methylnaphthalene	μg/Kg	45	32.6 J	66.7	3
2-Nitroaniline	μg/Kg	44	--	--	0
2-Nitrophenol	μg/Kg	45	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	45	--	--	0
3-Nitroaniline	μg/Kg	45	--	--	0
4-Bromophenylphenylether	μg/Kg	45	--	--	0
4-Chloro-3-methylphenol	μg/Kg	45	--	--	0
4-Chloroaniline	μg/Kg	45	--	--	0
4-Chlorophenylphenylether	μg/Kg	45	--	--	0

* Data qualifier included with concentration value

Table 4-38
Exposure Unit 4
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
4-Nitroaniline	µg/Kg	45	--	--	0
4-Nitrophenol	µg/Kg	45	--	--	0
Benzoic Acid	µg/Kg	45	69 J	498 J	2
bis(2-Chloroethoxy)methane	µg/Kg	45	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	45	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	45	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	45	44.5 J	1060	11
Butylbenzylphthalate	µg/Kg	45	62.7 J	62.7 J	1
Carbazole	µg/Kg	45	--	--	0
Dibenzofuran	µg/Kg	45	20.8 J	20.8 J	1
Diethylphthalate	µg/Kg	45	--	--	0
Dimethylphthalate	µg/Kg	45	--	--	0
Di-n-butylphthalate	µg/Kg	45	291 J	291 J	1
Di-n-octylphthalate	µg/Kg	45	--	--	0
Diphenylamine	µg/Kg	31	--	--	0
Hexachlorobenzene	µg/Kg	45	--	--	0
Hexachlorobutadiene	µg/Kg	45	--	--	0
Hexachlorocyclopentadiene	µg/Kg	45	--	--	0
Hexachloroethane	µg/Kg	45	--	--	0
Isophorone	µg/Kg	45	--	--	0
m,p-Cresols	µg/Kg	45	498	498	1
N-Nitroso-di-n-propylamine	µg/Kg	45	--	--	0
N-Nitrosodiphenylamine	µg/Kg	14	--	--	0
o-Cresol	µg/Kg	45	--	--	0
Pentachlorophenol	µg/Kg	45	--	--	0
Phenol	µg/Kg	45	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	27	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	27	--	--	0
1,1,2-Trichloroethane	µg/Kg	27	--	--	0
1,1-Dichloroethane	µg/Kg	27	--	--	0
1,1-Dichloroethene	µg/Kg	27	0.539 J	1.12 J	3
1,2-Dichloroethane	µg/Kg	27	--	--	0
1,2-Dichloropropane	µg/Kg	27	--	--	0
2-Butanone	µg/Kg	27	4.4	13.5	2
2-Hexanone	µg/Kg	27	--	--	0
4-Methyl-2-pentanone	µg/Kg	27	--	--	0
Acetone	µg/Kg	27	2.46 J	95.1	12
Benzene	µg/Kg	27	--	--	0
Bromodichloromethane	µg/Kg	27	--	--	0
Bromoform	µg/Kg	27	--	--	0
Bromomethane	µg/Kg	27	--	--	0
Carbon disulfide	µg/Kg	27	3.9	3.9	1
Carbon tetrachloride	µg/Kg	27	--	--	0

* Data qualifier included with concentration value

Table 4-38
Exposure Unit 4
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chlorobenzene	µg/Kg	27	--	--	0
Chloroethane	µg/Kg	27	--	--	0
Chloroform	µg/Kg	27	--	--	0
Chloromethane	µg/Kg	27	--	--	0
cis-1,2-Dichloroethene	µg/Kg	27	0.4 J	121 J	5
cis-1,3-Dichloropropene	µg/Kg	27	--	--	0
Dibromochloromethane	µg/Kg	27	--	--	0
Ethylbenzene	µg/Kg	27	--	--	0
m,p-Xylenes	µg/Kg	1	--	--	0
Methylene chloride	µg/Kg	27	0.82	1.7 J	5
o-Xylene	µg/Kg	2	--	--	0
Styrene	µg/Kg	27	--	--	0
Tetrachloroethene	µg/Kg	27	3.92	2200 D	7
Toluene	µg/Kg	27	0.27 J	1.1 J	8
trans-1,2-Dichloroethene	µg/Kg	27	0.56 J	0.94	3
trans-1,3-Dichloropropene	µg/Kg	27	--	--	0
Trichloroethene	µg/Kg	27	0.571 J	75.6 J	7
Vinyl chloride	µg/Kg	27	--	--	0
Xylenes (total)	µg/Kg	27	--	--	0

* Data qualifier included with concentration value

Table 4-39
Exposure Unit 5
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	11	4370	32400 E*	11
Antimony	mg/Kg	11	0.27 BN	1.04 BN	4
Arsenic	mg/Kg	11	2.3	6.56 *	11
Barium	mg/Kg	11	30.5	441 *	11
Beryllium	mg/Kg	11	0.22 B	7.7 E*	11
Boron	mg/Kg	11	1.8 B	88.2 E*N	11
Cadmium	mg/Kg	11	0.08 B	0.91	6
Calcium	mg/Kg	11	1580	179000 *	11
Chromium	mg/Kg	11	6.1	30.1 *N	11
Cobalt	mg/Kg	11	2.3	17	11
Copper	mg/Kg	11	9.6	58.1 E*N	11
Iron	mg/Kg	11	7930	26400 *	11
Lead	mg/Kg	11	2.5	23.5	11
Lithium	mg/Kg	10	8.9 E	37.2	10
Magnesium	mg/Kg	11	1310	12200 *	11
Manganese	mg/Kg	11	122	5010 *	11
Mercury	mg/Kg	11	0.01 B	0.15	9
Nickel	mg/Kg	11	7.9	25.6 E	11
Potassium	mg/Kg	11	440	4050 *	11
Selenium	mg/Kg	11	0.31 B	2.35	10
Silver	mg/Kg	11	0.049 BE	0.213 B	10
Sodium	mg/Kg	11	33	1210 E*	11
Thallium	mg/Kg	11	0.078 BE	0.256 E	7
Vanadium	mg/Kg	11	10.1 *	33.6 E*N	11
Zinc	mg/Kg	11	25.3 *	92.7	11
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	1	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	1	--	--	0
2,4-Dinitrotoluene	μg/Kg	13	--	--	0
2,6-Dinitrotoluene	μg/Kg	13	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	1	--	--	0
2-Nitrotoluene	μg/Kg	1	--	--	0
3-Dinitrobenzene	μg/Kg	1	--	--	0
3-Nitrotoluene	μg/Kg	1	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	1	--	--	0
4-Nitrotoluene	μg/Kg	1	--	--	0
HMX	μg/Kg	1	--	--	0
Nitrobenzene	μg/Kg	13	--	--	0
RDX	μg/Kg	1	--	--	0
Tetryl	μg/Kg	1	--	--	0
PAHs					
Acenaphthene	μg/Kg	13	--	--	0
Acenaphthylene	μg/Kg	13	96.2	96.2	1

* Data qualifier included with concentration value

Table 4-39
Exposure Unit 5
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	13	--	--	0
Benzo(a)anthracene	µg/Kg	13	3.85	145	3
Benzo(a)pyrene	µg/Kg	13	6.35 P	240	2
Benzo(b)fluoranthene	µg/Kg	13	6.66	561	3
Benzo(g,h,i)perylene	µg/Kg	13	2.06 P	176	2
Benzo(k)fluoranthene	µg/Kg	13	2.23	159	2
Chrysene	µg/Kg	13	3.76	216	2
Dibenzo(a,h)anthracene	µg/Kg	13	--	--	0
Fluoranthene	µg/Kg	13	3.91	258	3
Fluorene	µg/Kg	13	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	13	283	283	1
Naphthalene	µg/Kg	13	--	--	0
Phenanthrene	µg/Kg	13	3.04 J	24 J	2
Pyrene	µg/Kg	13	4.19	237	2
PCBs					
Aroclor-1016	µg/Kg	6	--	--	0
Aroclor-1221	µg/Kg	6	--	--	0
Aroclor-1232	µg/Kg	6	--	--	0
Aroclor-1242	µg/Kg	6	--	--	0
Aroclor-1248	µg/Kg	6	--	--	0
Aroclor-1254	µg/Kg	6	4.2	12 P	3
Aroclor-1260	µg/Kg	6	3 J	24.8 J	4
Pesticides					
4,4'-DDD	µg/Kg	6	--	--	0
4,4'-DDE	µg/Kg	6	2.6 P	2.6 P	1
4,4'-DDT	µg/Kg	6	0.885 J	5.4	2
Aldrin	µg/Kg	6	--	--	0
alpha-BHC	µg/Kg	6	--	--	0
alpha-Chlordane	µg/Kg	6	--	--	0
beta-BHC	µg/Kg	6	--	--	0
delta-BHC	µg/Kg	6	--	--	0
Dieldrin	µg/Kg	6	--	--	0
Endosulfan I	µg/Kg	6	--	--	0
Endosulfan II	µg/Kg	6	--	--	0
Endosulfan sulfate	µg/Kg	6	--	--	0
Endrin	µg/Kg	6	--	--	0
Endrin aldehyde	µg/Kg	6	--	--	0
Endrin ketone	µg/Kg	6	--	--	0
gamma-BHC (Lindane)	µg/Kg	6	--	--	0
gamma-Chlordane	µg/Kg	6	--	--	0
Heptachlor	µg/Kg	6	--	--	0
Heptachlor epoxide	µg/Kg	6	--	--	0
Methoxychlor	µg/Kg	6	--	--	0
Toxaphene	µg/Kg	6	--	--	0

* Data qualifier included with concentration value

Table 4-39
Exposure Unit 5
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	34	1.33	14.2	2
Alpha	pCi/g	14	6.05	416	14
Americium-241	pCi/g	34	--	--	0
Beta	pCi/g	14	10.2	221	14
Cesium-137	pCi/g	38	0.029	0.672	24
Cobalt-60	pCi/g	34	--	--	0
Potassium-40	pCi/g	25	11.3	22.4	25
Protactinium-231	pCi/g	34	--	--	0
Radium-226	pCi/g	40	0.71	285	40
Radium-228	pCi/g	34	0.654	1.14	34
Thorium-228	pCi/g	39	0.63 J	1.83	39
Thorium-230	pCi/g	40	0.717	8.73	39
Thorium-232	pCi/g	40	0.485 J	1.22	40
Total Activity	pCi/g	3	--	--	0
Total Uranium	μg/g	40	1.35	5	38
Uranium-234	pCi/g	40	0.434	4.25	38
Uranium-235	pCi/g	40	0.042 J	0.461	6
Uranium-238	pCi/g	40	0.483	4.12	39
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	13	--	--	0
1,2-Dichlorobenzene	μg/Kg	13	--	--	0
1,3-Dichlorobenzene	μg/Kg	13	--	--	0
1,4-Dichlorobenzene	μg/Kg	13	--	--	0
2,4,5-Trichlorophenol	μg/Kg	13	--	--	0
2,4,6-Trichlorophenol	μg/Kg	13	--	--	0
2,4-Dichlorophenol	μg/Kg	13	--	--	0
2,4-Dimethylphenol	μg/Kg	13	--	--	0
2,4-Dinitrophenol	μg/Kg	13	--	--	0
2-Chloronaphthalene	μg/Kg	13	--	--	0
2-Chlorophenol	μg/Kg	13	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	13	--	--	0
2-Methylnaphthalene	μg/Kg	13	--	--	0
2-Nitroaniline	μg/Kg	13	--	--	0
2-Nitrophenol	μg/Kg	13	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	13	--	--	0
3-Nitroaniline	μg/Kg	13	--	--	0
4-Bromophenylphenylether	μg/Kg	13	--	--	0
4-Chloro-3-methylphenol	μg/Kg	13	--	--	0
4-Chloroaniline	μg/Kg	13	--	--	0
4-Chlorophenylphenylether	μg/Kg	13	--	--	0
4-Nitroaniline	μg/Kg	13	--	--	0
4-Nitrophenol	μg/Kg	13	--	--	0
Benzoic Acid	μg/Kg	13	--	--	0

* Data qualifier included with concentration value

Table 4-39
Exposure Unit 5
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethoxy)methane	µg/Kg	13	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	13	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	13	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	13	56 J	56 J	1
Butylbenzylphthalate	µg/Kg	13	--	--	0
Carbazole	µg/Kg	13	--	--	0
Dibenzofuran	µg/Kg	13	--	--	0
Diethylphthalate	µg/Kg	13	--	--	0
Dimethylphthalate	µg/Kg	13	--	--	0
Di-n-butylphthalate	µg/Kg	13	--	--	0
Di-n-octylphthalate	µg/Kg	13	--	--	0
Diphenylamine	µg/Kg	10	--	--	0
Hexachlorobenzene	µg/Kg	13	--	--	0
Hexachlorobutadiene	µg/Kg	13	--	--	0
Hexachlorocyclopentadiene	µg/Kg	13	--	--	0
Hexachloroethane	µg/Kg	13	--	--	0
Isophorone	µg/Kg	13	--	--	0
m,p-Cresols	µg/Kg	13	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	13	--	--	0
N-Nitrosodiphenylamine	µg/Kg	3	--	--	0
o-Cresol	µg/Kg	13	--	--	0
Pentachlorophenol	µg/Kg	13	--	--	0
Phenol	µg/Kg	13	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	10	0.83 J	0.83 J	1
1,1,2,2-Tetrachloroethane	µg/Kg	10	--	--	0
1,1,2-Trichloroethane	µg/Kg	10	--	--	0
1,1-Dichloroethane	µg/Kg	10	--	--	0
1,1-Dichloroethene	µg/Kg	10	0.648 J	1.1	2
1,2-Dichloroethane	µg/Kg	10	--	--	0
1,2-Dichloropropane	µg/Kg	10	--	--	0
2-Butanone	µg/Kg	10	5.1 J	5.1 J	1
2-Hexanone	µg/Kg	10	--	--	0
4-Methyl-2-pentanone	µg/Kg	10	--	--	0
Acetone	µg/Kg	10	1.5 J	51.7	2
Benzene	µg/Kg	10	1.2	3	2
Bromodichloromethane	µg/Kg	10	--	--	0
Bromoform	µg/Kg	10	--	--	0
Bromomethane	µg/Kg	10	--	--	0
Carbon disulfide	µg/Kg	10	2.4 J	2.4 J	1
Carbon tetrachloride	µg/Kg	10	--	--	0
Chlorobenzene	µg/Kg	10	--	--	0
Chloroethane	µg/Kg	10	--	--	0
Chloroform	µg/Kg	10	--	--	0

* Data qualifier included with concentration value

Table 4-39
Exposure Unit 5
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chloromethane	µg/Kg	10	--	--	0
cis-1,2-Dichloroethene	µg/Kg	10	--	--	0
cis-1,3-Dichloropropene	µg/Kg	10	--	--	0
Dibromochloromethane	µg/Kg	10	--	--	0
Ethylbenzene	µg/Kg	10	--	--	0
Methylene chloride	µg/Kg	10	--	--	0
Styrene	µg/Kg	10	--	--	0
Tetrachloroethene	µg/Kg	10	1.3	1.3	1
Toluene	µg/Kg	10	0.27 J	2.8	7
trans-1,2-Dichloroethene	µg/Kg	10	--	--	0
trans-1,3-Dichloropropene	µg/Kg	10	--	--	0
Trichloroethene	µg/Kg	10	1 J	1 J	1
Vinyl chloride	µg/Kg	10	--	--	0
Xylenes (total)	µg/Kg	10	0.8 J	1.5 J	3

* Data qualifier included with concentration value

Table 4-40
Exposure Unit 6
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	16	6790	17200 *	16
Antimony	mg/Kg	16	0.36 BN	1.1 BN	5
Arsenic	mg/Kg	16	2.3	11.7	16
Barium	mg/Kg	16	71.9	143 E	16
Beryllium	mg/Kg	16	0.337 B	0.94 E	16
Boron	mg/Kg	16	1.3 B	8.4 *	16
Cadmium	mg/Kg	16	0.153 B	0.99	9
Calcium	mg/Kg	16	2060 *	60300	16
Chromium	mg/Kg	16	8.76	23.5	16
Cobalt	mg/Kg	16	3.1	13.2	16
Copper	mg/Kg	16	21	38.2 *	16
Iron	mg/Kg	16	7370	26100 E	16
Lead	mg/Kg	16	2.4	47.3	16
Lithium	mg/Kg	16	9.9 E	29 E	16
Magnesium	mg/Kg	16	1790	13500	16
Manganese	mg/Kg	16	112	1180 *	16
Mercury	mg/Kg	16	0.013	0.35	16
Nickel	mg/Kg	16	11.6	28.6	16
Potassium	mg/Kg	16	479 N	2520	16
Selenium	mg/Kg	15	0.09 BN	2.3 B	14
Silver	mg/Kg	16	0.04 B	0.15 B	16
Sodium	mg/Kg	16	42 E	319 E	16
Thallium	mg/Kg	16	0.03 B	0.36	12
Vanadium	mg/Kg	16	14.5	32.5	16
Zinc	mg/Kg	16	34.9 *N	199	16
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/Kg	9	--	--	0
2,4,6-Trinitrotoluene	µg/Kg	9	--	--	0
2,4-Dinitrotoluene	µg/Kg	14	--	--	0
2,6-Dinitrotoluene	µg/Kg	14	--	--	0
2-Amino-4,6-dinitrotoluene	µg/Kg	9	--	--	0
2-Nitrotoluene	µg/Kg	9	--	--	0
3-Dinitrobenzene	µg/Kg	9	--	--	0
3-Nitrotoluene	µg/Kg	9	--	--	0
4-Amino-2,6-dinitrotoluene	µg/Kg	9	--	--	0
4-Nitrotoluene	µg/Kg	9	--	--	0
HMX	µg/Kg	9	--	--	0
Nitrobenzene	µg/Kg	14	--	--	0
RDX	µg/Kg	9	--	--	0
Tetryl	µg/Kg	9	--	--	0
PAHs					
Acenaphthene	µg/Kg	14	--	--	0
Acenaphthylene	µg/Kg	14	--	--	0

* Data qualifier included with concentration value

Table 4-40
Exposure Unit 6
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	14	--	--	0
Benzo(a)anthracene	µg/Kg	14	--	--	0
Benzo(a)pyrene	µg/Kg	14	--	--	0
Benzo(b)fluoranthene	µg/Kg	14	--	--	0
Benzo(g,h,i)perylene	µg/Kg	14	--	--	0
Benzo(k)fluoranthene	µg/Kg	14	280 J	280 J	1
Chrysene	µg/Kg	14	--	--	0
Dibenzo(a,h)anthracene	µg/Kg	14	--	--	0
Fluoranthene	µg/Kg	14	--	--	0
Fluorene	µg/Kg	14	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	14	--	--	0
Naphthalene	µg/Kg	14	--	--	0
Phenanthrene	µg/Kg	14	--	--	0
Pyrene	µg/Kg	14	--	--	0
PCBs					
Aroclor-1016	µg/Kg	10	--	--	0
Aroclor-1221	µg/Kg	10	--	--	0
Aroclor-1232	µg/Kg	10	--	--	0
Aroclor-1242	µg/Kg	10	--	--	0
Aroclor-1248	µg/Kg	10	--	--	0
Aroclor-1254	µg/Kg	10	5.9	11.3 P	3
Aroclor-1260	µg/Kg	10	5.2 J	14.7	4
Pesticides					
4,4'-DDD	µg/Kg	10	--	--	0
4,4'-DDE	µg/Kg	10	0.273 J	1.91	3
4,4'-DDT	µg/Kg	10	1.61	1.61	1
Aldrin	µg/Kg	10	--	--	0
alpha-BHC	µg/Kg	10	--	--	0
alpha-Chlordane	µg/Kg	10	--	--	0
beta-BHC	µg/Kg	10	--	--	0
delta-BHC	µg/Kg	10	0.48 JP	0.48 JP	1
Dieldrin	µg/Kg	10	0.45 JP	0.45 JP	1
Endosulfan I	µg/Kg	10	--	--	0
Endosulfan II	µg/Kg	10	--	--	0
Endosulfan sulfate	µg/Kg	10	--	--	0
Endrin	µg/Kg	10	--	--	0
Endrin aldehyde	µg/Kg	10	--	--	0
Endrin ketone	µg/Kg	10	--	--	0
gamma-BHC (Lindane)	µg/Kg	10	--	--	0
gamma-Chlordane	µg/Kg	10	--	--	0
Heptachlor	µg/Kg	10	--	--	0
Heptachlor epoxide	µg/Kg	10	--	--	0
Methoxychlor	µg/Kg	10	--	--	0
Toxaphene	µg/Kg	10	--	--	0

* Data qualifier included with concentration value

Table 4-40
Exposure Unit 6
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	31	0.579	18.9	5
Alpha	pCi/g	19	7.05	1390	19
Americium-241	pCi/g	31	--	--	0
Beta	pCi/g	19	13	739	19
Cesium-137	pCi/g	35	0.0361	0.848	26
Cobalt-60	pCi/g	31	--	--	0
Potassium-40	pCi/g	19	6.25	19.8	19
Protactinium-231	pCi/g	31	3.53	18.9	2
Radium-226	pCi/g	40	0.654	182	40
Radium-228	pCi/g	31	0.624	1.2	29
Thorium-228	pCi/g	40	0.579	1.71	39
Thorium-230	pCi/g	40	0.642 J	352	39
Thorium-232	pCi/g	40	0.306	1.11	40
Total Activity	pCi/g	4	--	--	0
Total Uranium	μg/g	40	0.828	287	38
Uranium-234	pCi/g	40	0.33	42.5	40
Uranium-235	pCi/g	40	0.0427	3.63	8
Uranium-238	pCi/g	40	0.295	41.5	40
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	14	--	--	0
1,2-Dichlorobenzene	μg/Kg	14	--	--	0
1,3-Dichlorobenzene	μg/Kg	14	--	--	0
1,4-Dichlorobenzene	μg/Kg	14	--	--	0
2,4,5-Trichlorophenol	μg/Kg	14	--	--	0
2,4,6-Trichlorophenol	μg/Kg	14	--	--	0
2,4-Dichlorophenol	μg/Kg	14	--	--	0
2,4-Dimethylphenol	μg/Kg	14	--	--	0
2,4-Dinitrophenol	μg/Kg	14	--	--	0
2-Chloronaphthalene	μg/Kg	14	--	--	0
2-Chlorophenol	μg/Kg	14	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	14	--	--	0
2-Methylnaphthalene	μg/Kg	14	--	--	0
2-Nitroaniline	μg/Kg	14	--	--	0
2-Nitrophenol	μg/Kg	14	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	14	--	--	0
3-Nitroaniline	μg/Kg	14	--	--	0
4-Bromophenylphenylether	μg/Kg	14	--	--	0
4-Chloro-3-methylphenol	μg/Kg	14	--	--	0
4-Chloroaniline	μg/Kg	14	--	--	0
4-Chlorophenylphenylether	μg/Kg	14	--	--	0
4-Nitroaniline	μg/Kg	14	--	--	0
4-Nitrophenol	μg/Kg	14	--	--	0
Benzoic Acid	μg/Kg	14	--	--	0

* Data qualifier included with concentration value

Table 4-40
Exposure Unit 6
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethoxy)methane	µg/Kg	14	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	14	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	14	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	14	55 J	319 J	5
Butylbenzylphthalate	µg/Kg	14	--	--	0
Carbazole	µg/Kg	14	--	--	0
Dibenzofuran	µg/Kg	14	--	--	0
Diethylphthalate	µg/Kg	14	--	--	0
Dimethylphthalate	µg/Kg	14	--	--	0
Di-n-butylphthalate	µg/Kg	14	--	--	0
Di-n-octylphthalate	µg/Kg	14	--	--	0
Diphenylamine	µg/Kg	12	--	--	0
Hexachlorobenzene	µg/Kg	14	--	--	0
Hexachlorobutadiene	µg/Kg	14	--	--	0
Hexachlorocyclopentadiene	µg/Kg	14	--	--	0
Hexachloroethane	µg/Kg	14	--	--	0
Isophorone	µg/Kg	14	--	--	0
m,p-Cresols	µg/Kg	14	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	14	--	--	0
N-Nitrosodiphenylamine	µg/Kg	2	--	--	0
o-Cresol	µg/Kg	14	--	--	0
Pentachlorophenol	µg/Kg	14	--	--	0
Phenol	µg/Kg	14	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	11	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	11	--	--	0
1,1,2-Trichloroethane	µg/Kg	11	--	--	0
1,1-Dichloroethane	µg/Kg	11	--	--	0
1,1-Dichloroethene	µg/Kg	11	--	--	0
1,2-Dichloroethane	µg/Kg	11	--	--	0
1,2-Dichloropropane	µg/Kg	11	--	--	0
2-Butanone	µg/Kg	11	2.6 J	12	2
2-Hexanone	µg/Kg	11	0.71 J	0.71 J	1
4-Methyl-2-pentanone	µg/Kg	11	--	--	0
Acetone	µg/Kg	11	3.2 J	98.1	3
Benzene	µg/Kg	11	1.3	1.4	2
Bromodichloromethane	µg/Kg	11	--	--	0
Bromoform	µg/Kg	11	--	--	0
Bromomethane	µg/Kg	11	--	--	0
Carbon disulfide	µg/Kg	11	2 J	2.4 J	2
Carbon tetrachloride	µg/Kg	11	--	--	0
Chlorobenzene	µg/Kg	11	--	--	0
Chloroethane	µg/Kg	11	--	--	0
Chloroform	µg/Kg	11	--	--	0

* Data qualifier included with concentration value

Table 4-40
Exposure Unit 6
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chloromethane	µg/Kg	11	--	--	0
cis-1,2-Dichloroethene	µg/Kg	11	--	--	0
cis-1,3-Dichloropropene	µg/Kg	11	--	--	0
Dibromochloromethane	µg/Kg	11	--	--	0
Ethylbenzene	µg/Kg	11	--	--	0
Methylene chloride	µg/Kg	11	7.1 JB	7.1 JB	1
Styrene	µg/Kg	11	--	--	0
Tetrachloroethene	µg/Kg	11	--	--	0
Toluene	µg/Kg	11	0.25 J	1.3	3
trans-1,2-Dichloroethene	µg/Kg	11	--	--	0
trans-1,3-Dichloropropene	µg/Kg	11	--	--	0
Trichloroethene	µg/Kg	11	--	--	0
Vinyl chloride	µg/Kg	11	--	--	0
Xylenes (total)	µg/Kg	11	0.76 J	0.76 J	1

* Data qualifier included with concentration value

Table 4-41
Exposure Unit 7
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	18	10800 *	19100	18
Antimony	mg/Kg	18	0.489 BN	1.52 BN	5
Arsenic	mg/Kg	18	2.8	5.87	18
Barium	mg/Kg	18	92.4	232 *	18
Beryllium	mg/Kg	18	0.422 B	0.939 E*	18
Boron	mg/Kg	18	2.52 B	12.3	18
Cadmium	mg/Kg	18	0.07 B	0.46 B	10
Calcium	mg/Kg	18	4190 *	48200	18
Chromium	mg/Kg	18	13.3	28.1 *N	18
Cobalt	mg/Kg	18	5.75	19.9	18
Copper	mg/Kg	18	20.2 E*N	36.4	18
Iron	mg/Kg	18	15500	34300 E*	18
Lead	mg/Kg	18	5.45	31.2	18
Lithium	mg/Kg	18	16.1	33.4	18
Magnesium	mg/Kg	18	3270	22800	18
Manganese	mg/Kg	18	293	2080 *	18
Mercury	mg/Kg	18	0.01 B	0.089	18
Nickel	mg/Kg	18	12.8	46.2	18
Potassium	mg/Kg	18	920 E	3140	18
Selenium	mg/Kg	18	0.371 B	2.46 N	17
Silver	mg/Kg	18	0.047 BE	0.11 B	14
Sodium	mg/Kg	18	47.5	173	18
Thallium	mg/Kg	18	0.06 B	0.183	18
Vanadium	mg/Kg	18	19.9	37.3	18
Zinc	mg/Kg	18	35.1 N	112	18
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	4	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	4	--	--	0
2,4-Dinitrotoluene	μg/Kg	16	--	--	0
2,6-Dinitrotoluene	μg/Kg	16	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	4	--	--	0
2-Nitrotoluene	μg/Kg	4	--	--	0
3-Dinitrobenzene	μg/Kg	4	--	--	0
3-Nitrotoluene	μg/Kg	4	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	4	--	--	0
4-Nitrotoluene	μg/Kg	4	--	--	0
HMX	μg/Kg	4	--	--	0
Nitrobenzene	μg/Kg	16	--	--	0
RDX	μg/Kg	4	--	--	0
Tetryl	μg/Kg	4	--	--	0
PAHs					
Acenaphthene	μg/Kg	16	--	--	0
Acenaphthylene	μg/Kg	16	--	--	0

* Data qualifier included with concentration value

Table 4-41
Exposure Unit 7
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	16	113	113	1
Benzo(a)anthracene	µg/Kg	16	3.18	491	6
Benzo(a)pyrene	µg/Kg	16	3.3	253	7
Benzo(b)fluoranthene	µg/Kg	16	6.76 J	641	6
Benzo(g,h,i)perylene	µg/Kg	16	10.3 h	36.8	3
Benzo(k)fluoranthene	µg/Kg	16	2.21	24.5	5
Chrysene	µg/Kg	16	0.886 Jh	486	9
Dibenzo(a,h)anthracene	µg/Kg	16	2.77 h	2.77 h	1
Fluoranthene	µg/Kg	16	0.617 J	1540	10
Fluorene	µg/Kg	16	26.1 J	26.1 J	1
Indeno(1,2,3-cd)pyrene	µg/Kg	16	110	110	1
Naphthalene	µg/Kg	16	2.99 Jh	17.3 J	2
Phenanthrene	µg/Kg	16	3.19 J	727	7
Pyrene	µg/Kg	16	4.1	1150	7
PCBs					
Aroclor-1016	µg/Kg	16	--	--	0
Aroclor-1221	µg/Kg	16	--	--	0
Aroclor-1232	µg/Kg	16	--	--	0
Aroclor-1242	µg/Kg	16	--	--	0
Aroclor-1248	µg/Kg	16	--	--	0
Aroclor-1254	µg/Kg	16	6.2	7.3 J	3
Aroclor-1260	µg/Kg	16	2.2 J	12	3
Pesticides					
4,4'-DDD	µg/Kg	16	0.67 JP	0.67 JP	1
4,4'-DDE	µg/Kg	16	0.387 J	1.55 J	6
4,4'-DDT	µg/Kg	16	0.506 J	1.86	5
Aldrin	µg/Kg	16	--	--	0
alpha-BHC	µg/Kg	16	--	--	0
alpha-Chlordane	µg/Kg	16	--	--	0
beta-BHC	µg/Kg	16	--	--	0
delta-BHC	µg/Kg	16	--	--	0
Dieldrin	µg/Kg	16	0.26 J	0.26 J	1
Endosulfan I	µg/Kg	16	--	--	0
Endosulfan II	µg/Kg	16	--	--	0
Endosulfan sulfate	µg/Kg	16	0.46 JP	0.46 JP	1
Endrin	µg/Kg	16	--	--	0
Endrin aldehyde	µg/Kg	16	0.77 JP	0.77 JP	1
Endrin ketone	µg/Kg	16	0.53 J	0.53 J	1
gamma-BHC (Lindane)	µg/Kg	16	--	--	0
gamma-Chlordane	µg/Kg	16	--	--	0
Heptachlor	µg/Kg	16	--	--	0
Heptachlor epoxide	µg/Kg	16	--	--	0
Methoxychlor	µg/Kg	16	1.9 JP	1.9	1
Toxaphene	µg/Kg	16	--	--	0

* Data qualifier included with concentration value

Table 4-41
Exposure Unit 7
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	60	0.341	24	15
Alpha	pCi/g	16	6.54	66.4	16
Americium-241	pCi/g	60	--	--	0
Beta	pCi/g	16	12.8	44.1	16
Cesium-137	pCi/g	61	0.0269	5.15 J	34
Cobalt-60	pCi/g	60	--	--	0
Plutonium-238	pCi/g	1	--	--	0
Plutonium-239/240	pCi/g	1	--	--	0
Potassium-40	pCi/g	41	9.64	22.9	41
Protactinium-231	pCi/g	60	1.22 J	17.1	2
Radium-226	pCi/g	63	0.432	446	63
Radium-228	pCi/g	60	0.388	1.37	59
Strontium-90	pCi/g	1	--	--	0
Thorium-228	pCi/g	63	0.547	1.69	60
Thorium-230	pCi/g	63	0.768	536	63
Thorium-232	pCi/g	63	0.496	1.7	63
Total Activity	pCi/g	14	--	--	0
Total Uranium	μg/g	63	0.57	19	63
Uranium-234	pCi/g	63	0.407	9.68	63
Uranium-235	pCi/g	63	0.0512	0.394	22
Uranium-238	pCi/g	63	0.555	7.1	63
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	16	--	--	0
1,2-Dichlorobenzene	μg/Kg	16	--	--	0
1,3-Dichlorobenzene	μg/Kg	16	--	--	0
1,4-Dichlorobenzene	μg/Kg	16	--	--	0
2,4,5-Trichlorophenol	μg/Kg	16	--	--	0
2,4,6-Trichlorophenol	μg/Kg	16	--	--	0
2,4-Dichlorophenol	μg/Kg	16	--	--	0
2,4-Dimethylphenol	μg/Kg	16	--	--	0
2,4-Dinitrophenol	μg/Kg	16	--	--	0
2-Chloronaphthalene	μg/Kg	16	--	--	0
2-Chlorophenol	μg/Kg	16	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	16	--	--	0
2-Methylnaphthalene	μg/Kg	16	--	--	0
2-Nitroaniline	μg/Kg	16	--	--	0
2-Nitrophenol	μg/Kg	16	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	16	--	--	0
3-Nitroaniline	μg/Kg	16	--	--	0
4-Bromophenylphenylether	μg/Kg	16	--	--	0
4-Chloro-3-methylphenol	μg/Kg	16	--	--	0
4-Chloroaniline	μg/Kg	16	--	--	0
4-Chlorophenylphenylether	μg/Kg	16	--	--	0

* Data qualifier included with concentration value

Table 4-41
Exposure Unit 7
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
4-Nitroaniline	µg/Kg	16	--	--	0
4-Nitrophenol	µg/Kg	16	--	--	0
Benzoic Acid	µg/Kg	16	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	16	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	16	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	16	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	16	42 J	118 J	4
Butylbenzylphthalate	µg/Kg	16	--	--	0
Carbazole	µg/Kg	16	--	--	0
Dibenzofuran	µg/Kg	16	--	--	0
Diethylphthalate	µg/Kg	16	--	--	0
Dimethylphthalate	µg/Kg	16	--	--	0
Di-n-butylphthalate	µg/Kg	16	--	--	0
Di-n-octylphthalate	µg/Kg	16	--	--	0
Diphenylamine	µg/Kg	7	--	--	0
Hexachlorobenzene	µg/Kg	16	--	--	0
Hexachlorobutadiene	µg/Kg	16	--	--	0
Hexachlorocyclopentadiene	µg/Kg	16	--	--	0
Hexachloroethane	µg/Kg	16	--	--	0
Isophorone	µg/Kg	16	--	--	0
m,p-Cresols	µg/Kg	16	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	16	--	--	0
N-Nitrosodiphenylamine	µg/Kg	9	--	--	0
o-Cresol	µg/Kg	16	--	--	0
Pentachlorophenol	µg/Kg	16	--	--	0
Phenol	µg/Kg	16	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	15	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	15	--	--	0
1,1,2-Trichloroethane	µg/Kg	15	--	--	0
1,1-Dichloroethane	µg/Kg	15	--	--	0
1,1-Dichloroethene	µg/Kg	15	0.714 J	1.02	3
1,2-Dichloroethane	µg/Kg	15	--	--	0
1,2-Dichloropropane	µg/Kg	15	--	--	0
2-Butanone	µg/Kg	15	9.19	71.9	3
2-Hexanone	µg/Kg	15	--	--	0
4-Methyl-2-pentanone	µg/Kg	15	--	--	0
Acetone	µg/Kg	15	3.8 J	183	6
Benzene	µg/Kg	15	2	2.6	2
Bromodichloromethane	µg/Kg	15	--	--	0
Bromoform	µg/Kg	15	--	--	0
Bromomethane	µg/Kg	15	--	--	0
Carbon disulfide	µg/Kg	15	1.6 J	1.6 J	1
Carbon tetrachloride	µg/Kg	15	--	--	0

* Data qualifier included with concentration value

Table 4-41
Exposure Unit 7
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chlorobenzene	µg/Kg	15	--	--	0
Chloroethane	µg/Kg	15	--	--	0
Chloroform	µg/Kg	15	--	--	0
Chloromethane	µg/Kg	15	--	--	0
cis-1,2-Dichloroethene	µg/Kg	15	--	--	0
cis-1,3-Dichloropropene	µg/Kg	15	--	--	0
Dibromochloromethane	µg/Kg	15	--	--	0
Ethylbenzene	µg/Kg	15	12.2	12.2	1
Methylene chloride	µg/Kg	15	1.5 J	1.5 J	1
Styrene	µg/Kg	15	--	--	0
Tetrachloroethene	µg/Kg	15	--	--	0
Toluene	µg/Kg	15	0.5 J	3.4	4
trans-1,2-Dichloroethene	µg/Kg	15	--	--	0
trans-1,3-Dichloropropene	µg/Kg	15	--	--	0
Trichloroethene	µg/Kg	15	--	--	0
Vinyl chloride	µg/Kg	15	--	--	0
Xylenes (total)	µg/Kg	15	--	--	0

* Data qualifier included with concentration value

Table 4-42
Exposure Unit 8
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	28	4820 *	21800	28
Antimony	mg/Kg	28	0.25 BN	1.1 J	6
Arsenic	mg/Kg	28	2.1	7.8	28
Barium	mg/Kg	28	45.2	195 *	28
Beryllium	mg/Kg	28	0.22 J	1.6	28
Boron	mg/Kg	28	1.7 J	36.2 E*N	28
Cadmium	mg/Kg	29	0.095 B	1.2	20
Calcium	mg/Kg	28	3600 *	99000	28
Chromium	mg/Kg	28	9.4 *	42.4	28
Cobalt	mg/Kg	28	3 J	23.5	28
Copper	mg/Kg	28	12.9 *N	134	28
Iron	mg/Kg	28	11400	39300	28
Lead	mg/Kg	28	4.66	205	28
Lithium	mg/Kg	28	4.08 E	40.5	28
Magnesium	mg/Kg	29	1350	54400	29
Manganese	mg/Kg	29	148 E	1000 *	29
Mercury	mg/Kg	28	0.0094 B	0.21	26
Nickel	mg/Kg	29	9.8	107	29
Potassium	mg/Kg	28	591 *	3240 J	28
Selenium	mg/Kg	28	0.264 BN	1.8 B	26
Silver	mg/Kg	28	0.03 B	0.197 B	21
Sodium	mg/Kg	28	42.7 *	381	28
Thallium	mg/Kg	28	0.07 B	0.27	25
Vanadium	mg/Kg	28	9.2	43.3	28
Zinc	mg/Kg	28	25.8 E*	237	28
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/Kg	11	--	--	0
2,4,6-Trinitrotoluene	µg/Kg	11	--	--	0
2,4-Dinitrotoluene	µg/Kg	57	--	--	0
2,6-Dinitrotoluene	µg/Kg	57	--	--	0
2-Amino-4,6-dinitrotoluene	µg/Kg	11	--	--	0
2-Nitrotoluene	µg/Kg	11	109	109	1
3-Dinitrobenzene	µg/Kg	11	--	--	0
3-Nitrotoluene	µg/Kg	11	--	--	0
4-Amino-2,6-dinitrotoluene	µg/Kg	11	--	--	0
4-Nitrotoluene	µg/Kg	11	--	--	0
HMX	µg/Kg	11	--	--	0
Nitrobenzene	µg/Kg	57	--	--	0
RDX	µg/Kg	11	--	--	0
Tetryl	µg/Kg	11	--	--	0
PAHs					
Acenaphthene	µg/Kg	56	16.5 J	25000 E	5
Acenaphthylene	µg/Kg	57	37.8 J	290	2

* Data qualifier included with concentration value

Table 4-42
Exposure Unit 8
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	57	26.3	24700	7
Benzo(a)anthracene	µg/Kg	57	0.76	73300	15
Benzo(a)pyrene	µg/Kg	57	28.2	82500	15
Benzo(b)fluoranthene	µg/Kg	57	3.5	42800 D	17
Benzo(g,h,i)perylene	µg/Kg	57	2.7	54100	12
Benzo(k)fluoranthene	µg/Kg	57	0.74	62900	11
Chrysene	µg/Kg	57	4	76000	16
Dibenzo(a,h)anthracene	µg/Kg	57	21	22500	6
Fluoranthene	µg/Kg	57	1.8	92400 D	21
Fluorene	µg/Kg	57	5.6	15200 J	13
Indeno(1,2,3-cd)pyrene	µg/Kg	57	48.1	43600	14
Naphthalene	µg/Kg	57	9.37 J	2000	9
Phenanthrene	µg/Kg	57	2.4	71600 D	19
Pyrene	µg/Kg	56	2.5	99700 D	19
PCBs					
Aroclor-1016	µg/Kg	18	--	--	0
Aroclor-1221	µg/Kg	18	--	--	0
Aroclor-1232	µg/Kg	18	--	--	0
Aroclor-1242	µg/Kg	18	--	--	0
Aroclor-1248	µg/Kg	18	--	--	0
Aroclor-1254	µg/Kg	18	2.7 J	2.7 J	1
Aroclor-1260	µg/Kg	18	1.6 J	130 J	7
Pesticides					
4,4'-DDD	µg/Kg	18	0.37 JP	0.37 JP	1
4,4'-DDE	µg/Kg	18	0.24 JP	13.3	8
4,4'-DDT	µg/Kg	18	0.888 J	18.9	5
Aldrin	µg/Kg	18	--	--	0
alpha-BHC	µg/Kg	18	--	--	0
alpha-Chlordane	µg/Kg	18	--	--	0
beta-BHC	µg/Kg	18	--	--	0
delta-BHC	µg/Kg	18	--	--	0
Dieldrin	µg/Kg	18	0.296 J	0.296 J	1
Endosulfan I	µg/Kg	18	--	--	0
Endosulfan II	µg/Kg	18	--	--	0
Endosulfan sulfate	µg/Kg	18	--	--	0
Endrin	µg/Kg	18	--	--	0
Endrin aldehyde	µg/Kg	18	--	--	0
Endrin ketone	µg/Kg	18	--	--	0
gamma-BHC (Lindane)	µg/Kg	18	--	--	0
gamma-Chlordane	µg/Kg	18	--	--	0
Heptachlor	µg/Kg	18	1.1 J	1.1 J	1
Heptachlor epoxide	µg/Kg	18	110 J	110 J	1
Methoxychlor	µg/Kg	18	--	--	0
Toxaphene	µg/Kg	18	--	--	0

* Data qualifier included with concentration value

Table 4-42
Exposure Unit 8
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	109	0.487	3.07	18
Alpha	pCi/g	33	6.55	172	33
Americium-241	pCi/g	109	0.112	0.636	3
Beta	pCi/g	33	12	94.2	33
Cesium-137	pCi/g	122	0.0306	4.88	83
Cobalt-60	pCi/g	109	--	--	0
Plutonium-238	pCi/g	5	--	--	0
Plutonium-239/240	pCi/g	5	0.322	0.322	1
Potassium-40	pCi/g	51	3.18	19.7	51
Protactinium-231	pCi/g	109	--	--	0
Radium-226	pCi/g	128	0.42	82.1	128
Radium-228	pCi/g	109	0.0607	1.2	108
Strontium-90	pCi/g	5	--	--	0
Thorium-228	pCi/g	129	0.38	1.86	124
Thorium-230	pCi/g	129	0.338	87.9	129
Thorium-232	pCi/g	128	0.325	1.48	127
Total Activity	pCi/g	16	--	--	0
Total Uranium	μg/g	129	0.481	5630	127
Uranium-234	pCi/g	129	0.464	1420	126
Uranium-235	pCi/g	128	0.07 J	96.2	37
Uranium-238	pCi/g	129	0.239	1420	129
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	57	--	--	0
1,2-Dichlorobenzene	μg/Kg	57	--	--	0
1,3-Dichlorobenzene	μg/Kg	57	--	--	0
1,4-Dichlorobenzene	μg/Kg	57	--	--	0
2,4,5-Trichlorophenol	μg/Kg	57	--	--	0
2,4,6-Trichlorophenol	μg/Kg	57	--	--	0
2,4-Dichlorophenol	μg/Kg	57	--	--	0
2,4-Dimethylphenol	μg/Kg	57	--	--	0
2,4-Dinitrophenol	μg/Kg	57	--	--	0
2-Chloronaphthalene	μg/Kg	57	--	--	0
2-Chlorophenol	μg/Kg	57	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	57	--	--	0
2-Methylnaphthalene	μg/Kg	55	28.2 J	354 J	5
2-Nitroaniline	μg/Kg	55	--	--	0
2-Nitrophenol	μg/Kg	57	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	57	--	--	0
3-Nitroaniline	μg/Kg	57	--	--	0
4-Bromophenylphenylether	μg/Kg	57	--	--	0
4-Chloro-3-methylphenol	μg/Kg	57	--	--	0
4-Chloroaniline	μg/Kg	57	--	--	0
4-Chlorophenylphenylether	μg/Kg	57	--	--	0

* Data qualifier included with concentration value

Table 4-42
Exposure Unit 8
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
4-Nitroaniline	µg/Kg	57	--	--	0
4-Nitrophenol	µg/Kg	57	--	--	0
Benzoic Acid	µg/Kg	55	--	--	0
Benzyl Alcohol	µg/Kg	1	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	57	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	57	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	57	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	57	297 J	450	3
Butylbenzylphthalate	µg/Kg	57	--	--	0
Carbazole	µg/Kg	57	1140 J	20000	5
Dibenzofuran	µg/Kg	57	930	2180	2
Diethylphthalate	µg/Kg	57	--	--	0
Dimethylphthalate	µg/Kg	57	--	--	0
Di-n-butylphthalate	µg/Kg	57	--	--	0
Di-n-octylphthalate	µg/Kg	56	--	--	0
Diphenylamine	µg/Kg	50	--	--	0
Hexachlorobenzene	µg/Kg	57	--	--	0
Hexachlorobutadiene	µg/Kg	57	--	--	0
Hexachlorocyclopentadiene	µg/Kg	57	--	--	0
Hexachloroethane	µg/Kg	57	--	--	0
Isophorone	µg/Kg	57	--	--	0
m,p-Cresols	µg/Kg	55	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	57	--	--	0
N-Nitrosodiphenylamine	µg/Kg	7	--	--	0
o-Cresol	µg/Kg	57	--	--	0
p-Cresol	µg/Kg	2	--	--	0
Pentachlorophenol	µg/Kg	57	--	--	0
Phenol	µg/Kg	57	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	31	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	31	--	--	0
1,1,2-Trichloroethane	µg/Kg	31	--	--	0
1,1-Dichloroethane	µg/Kg	31	--	--	0
1,1-Dichloroethene	µg/Kg	31	0.48 J	32.2	6
1,2-Dichloroethane	µg/Kg	31	--	--	0
1,2-Dichloroethene	µg/Kg	2	--	--	0
1,2-Dichloropropane	µg/Kg	31	--	--	0
2-Butanone	µg/Kg	31	3.3	8.1	2
2-Hexanone	µg/Kg	31	--	--	0
4-Methyl-2-pentanone	µg/Kg	31	--	--	0
Acetone	µg/Kg	31	3.7 J	80 B	6
Benzene	µg/Kg	31	--	--	0
Bromodichloromethane	µg/Kg	31	--	--	0
Bromoform	µg/Kg	31	--	--	0

* Data qualifier included with concentration value

Table 4-42
Exposure Unit 8
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Bromomethane	µg/Kg	31	--	--	0
Carbon disulfide	µg/Kg	31	--	--	0
Carbon tetrachloride	µg/Kg	31	--	--	0
Chlorobenzene	µg/Kg	31	--	--	0
Chloroethane	µg/Kg	31	--	--	0
Chloroform	µg/Kg	31	0.45 J	0.45 J	1
Chloromethane	µg/Kg	31	--	--	0
cis-1,2-Dichloroethene	µg/Kg	27	--	--	0
cis-1,3-Dichloropropene	µg/Kg	31	--	--	0
Dibromochloromethane	µg/Kg	31	--	--	0
Ethylbenzene	µg/Kg	31	--	--	0
Methylene chloride	µg/Kg	32	1.1 J	150 J	4
Styrene	µg/Kg	31	--	--	0
Tetrachloroethene	µg/Kg	31	0.84 J	1.1 J	2
Toluene	µg/Kg	31	0.19 J	8.5	12
trans-1,2-Dichloroethene	µg/Kg	29	--	--	0
trans-1,3-Dichloropropene	µg/Kg	31	--	--	0
Trichloroethene	µg/Kg	31	--	--	0
Vinyl chloride	µg/Kg	31	--	--	0
Xylenes (total)	µg/Kg	30	0.32 J	0.32 J	1

* Data qualifier included with concentration value

Table 4-43
Exposure Unit 10
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	34	5520	22200	34
Antimony	mg/Kg	34	0.477 BN	3.92 J	17
Arsenic	mg/Kg	34	1.68	6.98	34
Barium	mg/Kg	34	66.4	210	34
Beryllium	mg/Kg	34	0.276 B	1.14	34
Boron	mg/Kg	34	3.4 BN	15.8 N	34
Cadmium	mg/Kg	34	0.03 B	0.623 J	21
Calcium	mg/Kg	34	4580	110000	34
Chromium	mg/Kg	34	8.11	31.9	34
Cobalt	mg/Kg	34	4.31	30.8	34
Copper	mg/Kg	34	14.8 E	40	34
Iron	mg/Kg	34	11800	38800	34
Lead	mg/Kg	34	2.94 N	22.6 N	34
Lithium	mg/Kg	33	9.1	34.4 E	33
Magnesium	mg/Kg	34	4840	56300 *	34
Manganese	mg/Kg	34	372	4570	34
Mercury	mg/Kg	34	0.003 B	0.055	32
Nickel	mg/Kg	34	7.93	84.7	34
Potassium	mg/Kg	34	1130 E	4950 E	34
Selenium	mg/Kg	34	0.364 B	2.76	26
Silver	mg/Kg	34	0.03 B	0.193 B	32
Sodium	mg/Kg	34	78.4 EN	232	34
Thallium	mg/Kg	34	0.052 BE	0.221 B	34
Vanadium	mg/Kg	34	15	44.3 N	34
Zinc	mg/Kg	34	23.1 N	830	34
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	3	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	3	--	--	0
2,4-Dinitrotoluene	μg/Kg	32	--	--	0
2,6-Dinitrotoluene	μg/Kg	32	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	3	--	--	0
2-Nitrotoluene	μg/Kg	3	--	--	0
3-Dinitrobenzene	μg/Kg	3	--	--	0
3-Nitrotoluene	μg/Kg	3	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	3	--	--	0
4-Nitrotoluene	μg/Kg	3	--	--	0
HMX	μg/Kg	3	--	--	0
Nitrobenzene	μg/Kg	32	--	--	0
RDX	μg/Kg	3	--	--	0
Tetryl	μg/Kg	3	--	--	0
PAHs					
Acenaphthene	μg/Kg	32	10.9 J	13.7	2
Acenaphthylene	μg/Kg	32	85.8	85.8	1

* Data qualifier included with concentration value

Table 4-43
Exposure Unit 10
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	32	8.46 J	136	3
Benzo(a)anthracene	µg/Kg	32	1.09 Jh	900	19
Benzo(a)pyrene	µg/Kg	32	2.09	691	16
Benzo(b)fluoranthene	µg/Kg	32	0.604	1280	18
Benzo(g,h,i)perylene	µg/Kg	32	1.47 J	300	13
Benzo(k)fluoranthene	µg/Kg	32	0.76	31.5 h	13
Chrysene	µg/Kg	32	1.33 J	1010	24
Dibenzo(a,h)anthracene	µg/Kg	32	1.43 J	6.8	3
Fluoranthene	µg/Kg	32	0.805 J	1760	25
Fluorene	µg/Kg	32	7.21 J	30.7 J	3
Indeno(1,2,3-cd)pyrene	µg/Kg	32	42.4	387	3
Naphthalene	µg/Kg	32	2.44 JP	2.44 JP	1
Phenanthrene	µg/Kg	32	2 J	624	16
Pyrene	µg/Kg	32	1.77 JP	1420	21
PCBs					
Aroclor-1016	µg/Kg	30	--	--	0
Aroclor-1221	µg/Kg	30	--	--	0
Aroclor-1232	µg/Kg	30	--	--	0
Aroclor-1242	µg/Kg	30	8.8	8.8	1
Aroclor-1248	µg/Kg	30	--	--	0
Aroclor-1254	µg/Kg	30	5.1	10.4	2
Aroclor-1260	µg/Kg	30	2.13 J	4.4	3
Pesticides					
4,4'-DDD	µg/Kg	30	2.18 J	2.18 J	1
4,4'-DDE	µg/Kg	30	0.302 J	5.33 J	13
4,4'-DDT	µg/Kg	30	0.587 J	12.5	15
Aldrin	µg/Kg	30	--	--	0
alpha-BHC	µg/Kg	30	--	--	0
alpha-Chlordane	µg/Kg	30	--	--	0
beta-BHC	µg/Kg	30	--	--	0
delta-BHC	µg/Kg	30	--	--	0
Dieldrin	µg/Kg	30	0.222 J	0.237 J	2
Endosulfan I	µg/Kg	30	--	--	0
Endosulfan II	µg/Kg	30	--	--	0
Endosulfan sulfate	µg/Kg	30	--	--	0
Endrin	µg/Kg	30	--	--	0
Endrin aldehyde	µg/Kg	30	--	--	0
Endrin ketone	µg/Kg	30	--	--	0
gamma-BHC (Lindane)	µg/Kg	30	--	--	0
gamma-Chlordane	µg/Kg	30	0.306 J	0.306 J	1
Heptachlor	µg/Kg	30	--	--	0
Heptachlor epoxide	µg/Kg	30	--	--	0
Methoxychlor	µg/Kg	30	--	--	0
Toxaphene	µg/Kg	30	--	--	0

* Data qualifier included with concentration value

Table 4-43
Exposure Unit 10
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	41	0.278	0.278	1
Alpha	pCi/g	34	5.52	68.2	33
Americium-241	pCi/g	41	--	--	0
Beta	pCi/g	34	12	53.1	34
Cesium-137	pCi/g	41	0.0372	0.35	12
Cobalt-60	pCi/g	41	--	--	0
Potassium-40	pCi/g	5	14.7	19.7	5
Protactinium-231	pCi/g	41	--	--	0
Radium-226	pCi/g	44	0.4	8.52	44
Radium-228	pCi/g	41	0.448	1.13	41
Thorium-228	pCi/g	44	0.549	1.71	44
Thorium-230	pCi/g	44	0.495	10.1	43
Thorium-232	pCi/g	44	0.32	1.58	44
Total Activity	pCi/g	30	37.9	37.9	1
Total Uranium	μg/g	44	1.08	69.4	44
Uranium-234	pCi/g	44	0.431	25.5	44
Uranium-235	pCi/g	44	0.065	1.69	10
Uranium-238	pCi/g	44	0.61	23.4	44
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	31	--	--	0
1,2-Dichlorobenzene	μg/Kg	32	--	--	0
1,3-Dichlorobenzene	μg/Kg	32	--	--	0
1,4-Dichlorobenzene	μg/Kg	32	--	--	0
2,4,5-Trichlorophenol	μg/Kg	32	--	--	0
2,4,6-Trichlorophenol	μg/Kg	32	--	--	0
2,4-Dichlorophenol	μg/Kg	32	--	--	0
2,4-Dimethylphenol	μg/Kg	32	--	--	0
2,4-Dinitrophenol	μg/Kg	32	--	--	0
2-Chloronaphthalene	μg/Kg	32	--	--	0
2-Chlorophenol	μg/Kg	32	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	32	--	--	0
2-Methylnaphthalene	μg/Kg	32	--	--	0
2-Nitroaniline	μg/Kg	32	--	--	0
2-Nitrophenol	μg/Kg	32	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	32	--	--	0
3-Nitroaniline	μg/Kg	32	--	--	0
4-Bromophenylphenylether	μg/Kg	32	--	--	0
4-Chloro-3-methylphenol	μg/Kg	32	--	--	0
4-Chloroaniline	μg/Kg	32	--	--	0
4-Chlorophenylphenylether	μg/Kg	32	--	--	0
4-Nitroaniline	μg/Kg	32	--	--	0
4-Nitrophenol	μg/Kg	32	--	--	0
Benzoic Acid	μg/Kg	32	--	--	0

* Data qualifier included with concentration value

Table 4-43
Exposure Unit 10
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethoxy)methane	µg/Kg	32	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	32	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	32	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	32	106 J	129 J	2
Butylbenzylphthalate	µg/Kg	32	--	--	0
Carbazole	µg/Kg	32	28.7 J	43.5 J	2
Dibenzofuran	µg/Kg	32	--	--	0
Diethylphthalate	µg/Kg	32	--	--	0
Dimethylphthalate	µg/Kg	32	--	--	0
Di-n-butylphthalate	µg/Kg	32	--	--	0
Di-n-octylphthalate	µg/Kg	32	--	--	0
Diphenylamine	µg/Kg	5	--	--	0
Hexachlorobenzene	µg/Kg	32	--	--	0
Hexachlorobutadiene	µg/Kg	32	--	--	0
Hexachlorocyclopentadiene	µg/Kg	32	--	--	0
Hexachloroethane	µg/Kg	32	--	--	0
Isophorone	µg/Kg	32	--	--	0
m,p-Cresols	µg/Kg	32	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	32	--	--	0
N-Nitrosodiphenylamine	µg/Kg	27	--	--	0
o-Cresol	µg/Kg	32	--	--	0
Pentachlorophenol	µg/Kg	32	--	--	0
Phenol	µg/Kg	32	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	30	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	30	--	--	0
1,1,2-Trichloroethane	µg/Kg	30	--	--	0
1,1-Dichloroethane	µg/Kg	30	--	--	0
1,1-Dichloroethene	µg/Kg	30	0.555 J	4.97	6
1,2-Dichloroethane	µg/Kg	30	--	--	0
1,2-Dichloropropane	µg/Kg	30	--	--	0
2-Butanone	µg/Kg	30	4.48 J	307	7
2-Hexanone	µg/Kg	30	--	--	0
4-Methyl-2-pentanone	µg/Kg	30	--	--	0
Acetone	µg/Kg	30	7.3	302	7
Benzene	µg/Kg	30	--	--	0
Bromodichloromethane	µg/Kg	30	--	--	0
Bromoform	µg/Kg	30	--	--	0
Bromomethane	µg/Kg	30	--	--	0
Carbon disulfide	µg/Kg	30	--	--	0
Carbon tetrachloride	µg/Kg	30	--	--	0
Chlorobenzene	µg/Kg	30	--	--	0
Chloroethane	µg/Kg	30	--	--	0
Chloroform	µg/Kg	30	--	--	0

* Data qualifier included with concentration value

Table 4-43
Exposure Unit 10
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chloromethane	µg/Kg	30	--	--	0
cis-1,2-Dichloroethene	µg/Kg	30	--	--	0
cis-1,3-Dichloropropene	µg/Kg	30	--	--	0
Dibromochloromethane	µg/Kg	30	--	--	0
Ethylbenzene	µg/Kg	30	--	--	0
Methylene chloride	µg/Kg	30	--	--	0
Styrene	µg/Kg	30	--	--	0
Tetrachloroethene	µg/Kg	30	--	--	0
Toluene	µg/Kg	30	0.465 J	0.589 J	3
trans-1,2-Dichloroethene	µg/Kg	30	--	--	0
trans-1,3-Dichloropropene	µg/Kg	30	--	--	0
Trichloroethene	µg/Kg	30	--	--	0
Vinyl chloride	µg/Kg	30	--	--	0
Xylenes (total)	µg/Kg	30	--	--	0

* Data qualifier included with concentration value

Table 4-44
Exposure Unit 11
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	32	8080	23600	32
Antimony	mg/Kg	32	0.369 BN*	2.3	7
Arsenic	mg/Kg	32	0.846	5.88 J	32
Barium	mg/Kg	32	85.4	223 N*	32
Beryllium	mg/Kg	32	0.408 B	1.8 E	32
Boron	mg/Kg	32	3.8 B	20 *	32
Cadmium	mg/Kg	32	0.14 B	0.95	13
Calcium	mg/Kg	32	4370	74900	32
Chromium	mg/Kg	32	10.2	62.1	32
Cobalt	mg/Kg	32	5.53 *N	16.1 J	32
Copper	mg/Kg	32	19.6	54 E*	32
Iron	mg/Kg	32	15300	37700	32
Lead	mg/Kg	32	3.34 NE	18 NE	32
Lithium	mg/Kg	32	10.7 NE	51.3	32
Magnesium	mg/Kg	32	5230	22000	32
Manganese	mg/Kg	32	256	2020 E*	32
Mercury	mg/Kg	32	0.004 B	1.1	29
Nickel	mg/Kg	32	11.3 N	34.9	32
Potassium	mg/Kg	32	1130 N	4820	32
Selenium	mg/Kg	32	0.353 B	2.36	30
Silver	mg/Kg	32	0.033 B	0.115 B	28
Sodium	mg/Kg	32	74.2 E	309 *	32
Thallium	mg/Kg	32	0.067 BE	0.26 J	32
Vanadium	mg/Kg	32	16.5	48.8	32
Zinc	mg/Kg	32	38.1 N	80.1	32
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	7	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	7	--	--	0
2,4-Dinitrotoluene	μg/Kg	33	--	--	0
2,6-Dinitrotoluene	μg/Kg	33	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	7	--	--	0
2-Nitrotoluene	μg/Kg	7	--	--	0
3-Dinitrobenzene	μg/Kg	7	--	--	0
3-Nitrotoluene	μg/Kg	7	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	7	--	--	0
4-Nitrotoluene	μg/Kg	7	--	--	0
HMX	μg/Kg	7	--	--	0
Nitrobenzene	μg/Kg	33	--	--	0
RDX	μg/Kg	7	--	--	0
Tetryl	μg/Kg	7	--	--	0
PAHs					
Acenaphthene	μg/Kg	33	34.9 J	296	3
Acenaphthylene	μg/Kg	33	7.5 J	7.5 J	1

* Data qualifier included with concentration value

Table 4-44
Exposure Unit 11
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	33	48.2	518	3
Benzo(a)anthracene	µg/Kg	33	1.08 JP	2430	9
Benzo(a)pyrene	µg/Kg	33	2.48	2560	8
Benzo(b)fluoranthene	µg/Kg	33	1.02 J	2740	11
Benzo(g,h,i)perylene	µg/Kg	33	2.52	1410	7
Benzo(k)fluoranthene	µg/Kg	33	5.87	2940	4
Chrysene	µg/Kg	33	0.947 J	2980	12
Dibenzo(a,h)anthracene	µg/Kg	33	209	209	1
Fluoranthene	µg/Kg	33	2.2 P	7210 D	11
Fluorene	µg/Kg	33	22.2 J	263	3
Indeno(1,2,3-cd)pyrene	µg/Kg	33	268	1330	3
Naphthalene	µg/Kg	33	3.44 J	336	3
Phenanthrene	µg/Kg	33	1.89 J	4360	11
Pyrene	µg/Kg	33	1.68 J	6280 D	11
PCBs					
Aroclor-1016	µg/Kg	29	--	--	0
Aroclor-1221	µg/Kg	29	--	--	0
Aroclor-1232	µg/Kg	29	--	--	0
Aroclor-1242	µg/Kg	29	4.8	6.7	2
Aroclor-1248	µg/Kg	29	--	--	0
Aroclor-1254	µg/Kg	29	2.6 J	3.8	3
Aroclor-1260	µg/Kg	29	2.2 J	2.2 J	1
Pesticides					
4,4'-DDD	µg/Kg	30	--	--	0
4,4'-DDE	µg/Kg	30	0.335 J	2.9 J	6
4,4'-DDT	µg/Kg	30	1.19 J	2.65	4
Aldrin	µg/Kg	30	--	--	0
alpha-BHC	µg/Kg	30	--	--	0
alpha-Chlordane	µg/Kg	30	--	--	0
beta-BHC	µg/Kg	30	--	--	0
delta-BHC	µg/Kg	30	--	--	0
Dieldrin	µg/Kg	30	--	--	0
Endosulfan I	µg/Kg	30	--	--	0
Endosulfan II	µg/Kg	30	--	--	0
Endosulfan sulfate	µg/Kg	30	--	--	0
Endrin	µg/Kg	30	--	--	0
Endrin aldehyde	µg/Kg	30	--	--	0
Endrin ketone	µg/Kg	30	--	--	0
gamma-BHC (Lindane)	µg/Kg	30	--	--	0
gamma-Chlordane	µg/Kg	30	--	--	0
Heptachlor	µg/Kg	30	1.7	1.7	1
Heptachlor epoxide	µg/Kg	30	--	--	0
Methoxychlor	µg/Kg	30	--	--	0
Toxaphene	µg/Kg	30	--	--	0

* Data qualifier included with concentration value

Table 4-44
Exposure Unit 11
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	71	0.478	132	7
Alpha	pCi/g	27	6.77	19000	27
Americium-241	pCi/g	71	--	--	0
Beta	pCi/g	27	20.1	15100	27
Cesium-137	pCi/g	72	0.0249	0.688	26
Cobalt-60	pCi/g	71	--	--	0
Plutonium-238	pCi/g	3	--	--	0
Plutonium-239/240	pCi/g	3	0.129	0.129	1
Potassium-40	pCi/g	40	5.23	24.6	39
Protactinium-231	pCi/g	71	127	127	1
Radium-226	pCi/g	76	0.379	386	75
Radium-228	pCi/g	71	0.233	1.49	68
Strontium-90	pCi/g	1	--	--	0
Thorium-228	pCi/g	76	0.287	1.95	73
Thorium-230	pCi/g	76	0.848	304	73
Thorium-232	pCi/g	76	0.14	1.87	73
Total Activity	pCi/g	15	--	--	0
Total Uranium	μg/g	76	0.656	2860	76
Uranium-234	pCi/g	76	0.396	8340	74
Uranium-235	pCi/g	76	0.0745	886	24
Uranium-238	pCi/g	76	0.388	8830	74
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	33	--	--	0
1,2-Dichlorobenzene	μg/Kg	33	--	--	0
1,3-Dichlorobenzene	μg/Kg	33	--	--	0
1,4-Dichlorobenzene	μg/Kg	33	--	--	0
2,4,5-Trichlorophenol	μg/Kg	33	--	--	0
2,4,6-Trichlorophenol	μg/Kg	33	--	--	0
2,4-Dichlorophenol	μg/Kg	33	--	--	0
2,4-Dimethylphenol	μg/Kg	33	--	--	0
2,4-Dinitrophenol	μg/Kg	33	--	--	0
2-Chloronaphthalene	μg/Kg	33	--	--	0
2-Chlorophenol	μg/Kg	33	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	33	--	--	0
2-Methylnaphthalene	μg/Kg	33	53.8	449	2
2-Nitroaniline	μg/Kg	33	--	--	0
2-Nitrophenol	μg/Kg	33	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	33	--	--	0
3-Nitroaniline	μg/Kg	33	--	--	0
4-Bromophenylphenylether	μg/Kg	33	--	--	0
4-Chloro-3-methylphenol	μg/Kg	33	--	--	0
4-Chloroaniline	μg/Kg	33	--	--	0
4-Chlorophenylphenylether	μg/Kg	33	--	--	0

* Data qualifier included with concentration value

Table 4-44
Exposure Unit 11
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
4-Nitroaniline	µg/Kg	33	--	--	0
4-Nitrophenol	µg/Kg	33	--	--	0
Benzoic Acid	µg/Kg	31	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	33	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	33	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	33	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	33	62.9	128 J	5
Butylbenzylphthalate	µg/Kg	33	17.7 J	17.7 J	1
Carbazole	µg/Kg	33	45 J	334 J	3
Dibenzofuran	µg/Kg	33	30.3 J	277 J	2
Diethylphthalate	µg/Kg	33	31.6 J	384 J	2
Dimethylphthalate	µg/Kg	33	--	--	0
Di-n-butylphthalate	µg/Kg	33	--	--	0
Di-n-octylphthalate	µg/Kg	33	--	--	0
Diphenylamine	µg/Kg	18	--	--	0
Hexachlorobenzene	µg/Kg	33	--	--	0
Hexachlorobutadiene	µg/Kg	33	--	--	0
Hexachlorocyclopentadiene	µg/Kg	33	--	--	0
Hexachloroethane	µg/Kg	33	--	--	0
Isophorone	µg/Kg	33	--	--	0
m,p-Cresols	µg/Kg	33	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	33	--	--	0
N-Nitrosodiphenylamine	µg/Kg	15	--	--	0
o-Cresol	µg/Kg	33	--	--	0
Pentachlorophenol	µg/Kg	33	--	--	0
Phenol	µg/Kg	33	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	23	0.75 J	0.75 J	1
1,1,2,2-Tetrachloroethane	µg/Kg	23	--	--	0
1,1,2-Trichloroethane	µg/Kg	23	--	--	0
1,1-Dichloroethane	µg/Kg	23	--	--	0
1,1-Dichloroethene	µg/Kg	23	1.13	1.3	2
1,2-Dichloroethane	µg/Kg	23	--	--	0
1,2-Dichloropropane	µg/Kg	23	--	--	0
2-Butanone	µg/Kg	23	6.19	45.9	5
2-Hexanone	µg/Kg	23	--	--	0
4-Methyl-2-pentanone	µg/Kg	23	--	--	0
Acetone	µg/Kg	23	3.7 J	29.6	12
Benzene	µg/Kg	23	2.3	2.6	2
Bromodichloromethane	µg/Kg	23	--	--	0
Bromoform	µg/Kg	23	--	--	0
Bromomethane	µg/Kg	23	--	--	0
Carbon disulfide	µg/Kg	23	1.8 J	1.8 J	1
Carbon tetrachloride	µg/Kg	23	--	--	0

* Data qualifier included with concentration value

Table 4-44
Exposure Unit 11
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chlorobenzene	µg/Kg	23	--	--	0
Chloroethane	µg/Kg	23	--	--	0
Chloroform	µg/Kg	23	--	--	0
Chloromethane	µg/Kg	23	--	--	0
cis-1,2-Dichloroethene	µg/Kg	23	--	--	0
cis-1,3-Dichloropropene	µg/Kg	23	--	--	0
Dibromochloromethane	µg/Kg	23	--	--	0
Ethylbenzene	µg/Kg	23	--	--	0
Methylene chloride	µg/Kg	23	--	--	0
Styrene	µg/Kg	23	--	--	0
Tetrachloroethene	µg/Kg	23	--	--	0
Toluene	µg/Kg	23	0.405 J	1.9	7
trans-1,2-Dichloroethene	µg/Kg	23	--	--	0
trans-1,3-Dichloropropene	µg/Kg	23	--	--	0
Trichloroethene	µg/Kg	23	--	--	0
Vinyl chloride	µg/Kg	23	--	--	0
Xylenes (total)	µg/Kg	23	1.1 J	1.1 J	1

* Data qualifier included with concentration value

Table 4-45
Exposure Unit 12
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	14	6510	23200	14
Antimony	mg/Kg	14	0.38 J	0.981 BN	3
Arsenic	mg/Kg	14	1.88	51.8 N	14
Barium	mg/Kg	14	70.5 *	301 N*	14
Beryllium	mg/Kg	14	0.59 E	1.79	14
Boron	mg/Kg	14	6.9	37.6	14
Cadmium	mg/Kg	14	0.06 B	1.29	10
Calcium	mg/Kg	14	7780	58400	14
Chromium	mg/Kg	14	11.7	28.2	14
Cobalt	mg/Kg	14	7.45	14.3	14
Copper	mg/Kg	14	21	99.8	14
Iron	mg/Kg	14	14300	39000	14
Lead	mg/Kg	14	5.9 *	25.1	14
Lithium	mg/Kg	14	10.3 EN	33.4	14
Magnesium	mg/Kg	14	3160	14400	14
Manganese	mg/Kg	14	153	1150	14
Mercury	mg/Kg	14	0.009 J	0.1	13
Nickel	mg/Kg	14	19.6	34	14
Potassium	mg/Kg	14	1110	3920 E	14
Selenium	mg/Kg	14	0.358 J	3.13 B	14
Silver	mg/Kg	14	0.059 J	0.361 BN	12
Sodium	mg/Kg	14	74.8	305	14
Thallium	mg/Kg	14	0.09 B	0.39	14
Vanadium	mg/Kg	14	17.7	45.8 N	14
Zinc	mg/Kg	14	46.7	112	14
Nitroaromatics					
2,4-Dinitrotoluene	μg/Kg	17	--	--	0
2,6-Dinitrotoluene	μg/Kg	17	--	--	0
Nitrobenzene	μg/Kg	17	--	--	0
PAHs					
Acenaphthene	μg/Kg	17	--	--	0
Acenaphthylene	μg/Kg	17	--	--	0
Anthracene	μg/Kg	17	43.5 J	43.5 J	1
Benzo(a)anthracene	μg/Kg	17	0.967 JP	945 J	6
Benzo(a)pyrene	μg/Kg	17	36.2	1340 J	5
Benzo(b)fluoranthene	μg/Kg	17	0.946 J	3550	5
Benzo(g,h,i)perylene	μg/Kg	17	18.9	1070 J	3
Benzo(k)fluoranthene	μg/Kg	17	18	1250 J	5
Chrysene	μg/Kg	17	1.51 J	1790	6
Dibenzo(a,h)anthracene	μg/Kg	17	--	--	0
Fluoranthene	μg/Kg	17	0.616 JP	1120 J	9
Fluorene	μg/Kg	17	--	--	0
Indeno(1,2,3-cd)pyrene	μg/Kg	17	1.52 JP	1600 J	3

* Data qualifier included with concentration value

Table 4-45
Exposure Unit 12
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Naphthalene	µg/Kg	17	3.03 JP	2170	4
Phenanthrene	µg/Kg	17	1.67 J	1050 J	6
Pyrene	µg/Kg	17	1.15 JP	252 J	7
PCBs					
Aroclor-1016	µg/Kg	5	--	--	0
Aroclor-1221	µg/Kg	5	--	--	0
Aroclor-1232	µg/Kg	5	--	--	0
Aroclor-1242	µg/Kg	5	--	--	0
Aroclor-1248	µg/Kg	5	--	--	0
Aroclor-1254	µg/Kg	5	--	--	0
Aroclor-1260	µg/Kg	5	1.4 J	4.8 J	2
Pesticides					
4,4'-DDD	µg/Kg	5	--	--	0
4,4'-DDE	µg/Kg	5	0.378 J	1.46 J	4
4,4'-DDT	µg/Kg	5	0.796 J	2.84	4
Aldrin	µg/Kg	5	--	--	0
alpha-BHC	µg/Kg	5	--	--	0
alpha-Chlordane	µg/Kg	5	--	--	0
beta-BHC	µg/Kg	5	--	--	0
delta-BHC	µg/Kg	5	--	--	0
Dieldrin	µg/Kg	5	--	--	0
Endosulfan I	µg/Kg	5	--	--	0
Endosulfan II	µg/Kg	5	--	--	0
Endosulfan sulfate	µg/Kg	5	--	--	0
Endrin	µg/Kg	5	--	--	0
Endrin aldehyde	µg/Kg	5	--	--	0
Endrin ketone	µg/Kg	5	--	--	0
gamma-BHC (Lindane)	µg/Kg	5	--	--	0
gamma-Chlordane	µg/Kg	5	--	--	0
Heptachlor	µg/Kg	5	--	--	0
Heptachlor epoxide	µg/Kg	5	--	--	0
Methoxychlor	µg/Kg	5	--	--	0
Toxaphene	µg/Kg	5	--	--	0
Radionuclides					
Actinium-227	pCi/g	22	2.71	2.72	2
Alpha	pCi/g	16	8.21	284	16
Americium-241	pCi/g	22	--	--	0
Beta	pCi/g	16	16.6	153	16
Cesium-137	pCi/g	25	0.0379	0.739	19
Cobalt-60	pCi/g	22	--	--	0
Potassium-40	pCi/g	6	9.91	21.8	5
Protactinium-231	pCi/g	22	--	--	0
Radium-226	pCi/g	30	0.634	29.6	30
Radium-228	pCi/g	22	0.666	1.37	21

* Data qualifier included with concentration value

Table 4-45
Exposure Unit 12
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Thorium-228	pCi/g	30	0.0481	2.13	30
Thorium-230	pCi/g	30	0.0906	69.6	30
Thorium-232	pCi/g	30	0.036	1.47	30
Total Activity	pCi/g	3	--	--	0
Total Uranium	μg/g	30	0.111	49.4	28
Uranium-234	pCi/g	30	0.0527	12.1	30
Uranium-235	pCi/g	30	0.0487 J	0.409	7
Uranium-238	pCi/g	30	0.0416	12.1	30
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	17	--	--	0
1,2-Dichlorobenzene	μg/Kg	17	--	--	0
1,3-Dichlorobenzene	μg/Kg	17	--	--	0
1,4-Dichlorobenzene	μg/Kg	17	--	--	0
2,4,5-Trichlorophenol	μg/Kg	17	--	--	0
2,4,6-Trichlorophenol	μg/Kg	17	--	--	0
2,4-Dichlorophenol	μg/Kg	17	--	--	0
2,4-Dimethylphenol	μg/Kg	17	--	--	0
2,4-Dinitrophenol	μg/Kg	17	--	--	0
2-Chloronaphthalene	μg/Kg	17	--	--	0
2-Chlorophenol	μg/Kg	17	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	17	--	--	0
2-Methylnaphthalene	μg/Kg	17	798	2950	3
2-Nitroaniline	μg/Kg	17	--	--	0
2-Nitrophenol	μg/Kg	17	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	17	--	--	0
3-Nitroaniline	μg/Kg	17	--	--	0
4-Bromophenylphenylether	μg/Kg	17	--	--	0
4-Chloro-3-methylphenol	μg/Kg	17	--	--	0
4-Chloroaniline	μg/Kg	17	--	--	0
4-Chlorophenylphenylether	μg/Kg	17	--	--	0
4-Nitroaniline	μg/Kg	17	--	--	0
4-Nitrophenol	μg/Kg	17	--	--	0
Benzoic Acid	μg/Kg	17	602 J	602 J	1
bis(2-Chloroethoxy)methane	μg/Kg	17	--	--	0
bis(2-Chloroethyl)ether	μg/Kg	17	--	--	0
bis(2-Chloroisopropyl)ether	μg/Kg	17	--	--	0
bis(2-Ethylhexyl)phthalate	μg/Kg	17	203 J	738	2
Butylbenzylphthalate	μg/Kg	17	--	--	0
Carbazole	μg/Kg	17	--	--	0
Dibenzofuran	μg/Kg	17	233 J	612	2
Diethylphthalate	μg/Kg	17	--	--	0
Dimethylphthalate	μg/Kg	17	--	--	0
Di-n-butylphthalate	μg/Kg	17	--	--	0
Di-n-octylphthalate	μg/Kg	17	--	--	0

* Data qualifier included with concentration value

Table 4-45
Exposure Unit 12
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Diphenylamine	µg/Kg	12	--	--	0
Hexachlorobenzene	µg/Kg	17	--	--	0
Hexachlorobutadiene	µg/Kg	17	--	--	0
Hexachlorocyclopentadiene	µg/Kg	17	--	--	0
Hexachloroethane	µg/Kg	17	--	--	0
Isophorone	µg/Kg	17	--	--	0
m,p-Cresols	µg/Kg	17	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	17	--	--	0
N-Nitrosodiphenylamine	µg/Kg	5	--	--	0
o-Cresol	µg/Kg	17	--	--	0
Pentachlorophenol	µg/Kg	17	--	--	0
Phenol	µg/Kg	17	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	8	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	8	--	--	0
1,1,2-Trichloroethane	µg/Kg	8	--	--	0
1,1-Dichloroethane	µg/Kg	8	--	--	0
1,1-Dichloroethene	µg/Kg	8	--	--	0
1,2-Dichloroethane	µg/Kg	8	--	--	0
1,2-Dichloropropane	µg/Kg	8	--	--	0
2-Butanone	µg/Kg	8	5.4 J	17.7	2
2-Hexanone	µg/Kg	8	--	--	0
4-Methyl-2-pentanone	µg/Kg	8	--	--	0
Acetone	µg/Kg	8	6.7	81.9	2
Benzene	µg/Kg	8	--	--	0
Bromodichloromethane	µg/Kg	8	--	--	0
Bromoform	µg/Kg	8	--	--	0
Bromomethane	µg/Kg	8	--	--	0
Carbon disulfide	µg/Kg	8	--	--	0
Carbon tetrachloride	µg/Kg	8	--	--	0
Chlorobenzene	µg/Kg	8	--	--	0
Chloroethane	µg/Kg	8	--	--	0
Chloroform	µg/Kg	8	--	--	0
Chloromethane	µg/Kg	8	--	--	0
cis-1,2-Dichloroethene	µg/Kg	8	--	--	0
cis-1,3-Dichloropropene	µg/Kg	8	--	--	0
Dibromochloromethane	µg/Kg	8	--	--	0
Ethylbenzene	µg/Kg	8	--	--	0
Methylene chloride	µg/Kg	8	9.6	18.5	3
Styrene	µg/Kg	8	--	--	0
Tetrachloroethene	µg/Kg	8	--	--	0
Toluene	µg/Kg	8	1.1 J	1.1 J	1
trans-1,2-Dichloroethene	µg/Kg	8	--	--	0
trans-1,3-Dichloropropene	µg/Kg	8	--	--	0

* Data qualifier included with concentration value

Table 4-45
Exposure Unit 12
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Trichloroethene	μg/Kg	8	--	--	0
Vinyl chloride	μg/Kg	8	--	--	0
Xylenes (total)	μg/Kg	8	--	--	0

* Data qualifier included with concentration value

Table 4-46
Exposure Unit 13
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	34	3310 *	24100	34
Antimony	mg/Kg	34	0.34 BN	2.2 N	8
Arsenic	mg/Kg	34	1.1 EN	11.2	34
Barium	mg/Kg	34	17.3 *N	315	34
Beryllium	mg/Kg	34	0.395 B	1.25	33
Boron	mg/Kg	34	5.3 B	343	34
Cadmium	mg/Kg	34	0.029 BE	2.04 E	21
Calcium	mg/Kg	34	3620	170000 *	34
Chromium	mg/Kg	34	4.09 *	69.1	34
Cobalt	mg/Kg	34	2.31 *	17.2 *	34
Copper	mg/Kg	34	15.7 E	1050	34
Iron	mg/Kg	34	6530 *	52600	34
Lead	mg/Kg	34	5.3 N	142	34
Lithium	mg/Kg	34	6.8	35.8	34
Magnesium	mg/Kg	34	4830	55300 *	34
Manganese	mg/Kg	34	172 *	1550	34
Mercury	mg/Kg	34	0.007 B	1.31 *	34
Nickel	mg/Kg	34	1.48 B	348	34
Potassium	mg/Kg	34	808 EN	6510	34
Selenium	mg/Kg	34	0.435 B	1.83	28
Silver	mg/Kg	34	0.03 B	0.228	25
Sodium	mg/Kg	34	78.7 E	1780	34
Thallium	mg/Kg	34	0.061 B	0.26 E	34
Vanadium	mg/Kg	34	7.03 *	45.7 N	34
Zinc	mg/Kg	34	37.2 *	2450	34
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	6	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	6	--	--	0
2,4-Dinitrotoluene	μg/Kg	42	108	108	1
2,6-Dinitrotoluene	μg/Kg	42	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	6	--	--	0
2-Nitrotoluene	μg/Kg	6	--	--	0
3-Dinitrobenzene	μg/Kg	6	--	--	0
3-Nitrotoluene	μg/Kg	6	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	6	--	--	0
4-Nitrotoluene	μg/Kg	6	--	--	0
HMX	μg/Kg	6	--	--	0
Nitrobenzene	μg/Kg	42	--	--	0
RDX	μg/Kg	6	--	--	0
Tetryl	μg/Kg	6	--	--	0
PAHs					
Acenaphthene	μg/Kg	41	40.7 J	40.7 J	1
Acenaphthylene	μg/Kg	42	1.07 J	1.07 J	1

* Data qualifier included with concentration value

Table 4-46
Exposure Unit 13
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	42	22.6 J	60.4 J	4
Benzo(a)anthracene	µg/Kg	42	0.779 J	379	10
Benzo(a)pyrene	µg/Kg	42	19.6	385	8
Benzo(b)fluoranthene	µg/Kg	42	1.67 J	700 P	11
Benzo(g,h,i)perylene	µg/Kg	42	11.8	215 J	5
Benzo(k)fluoranthene	µg/Kg	42	1 P	247 J	9
Chrysene	µg/Kg	42	0.878 J	440	18
Dibenzo(a,h)anthracene	µg/Kg	42	--	--	0
Fluoranthene	µg/Kg	42	0.557 J	892	24
Fluorene	µg/Kg	42	35.6 J	35.6 J	1
Indeno(1,2,3-cd)pyrene	µg/Kg	42	21.3 J	188 J	4
Naphthalene	µg/Kg	42	11.2 J	483	6
Phenanthrene	µg/Kg	42	1.96 J	642	17
Pyrene	µg/Kg	41	1.7 J	925	18
PCBs					
Aroclor-1016	µg/Kg	26	--	--	0
Aroclor-1221	µg/Kg	26	--	--	0
Aroclor-1232	µg/Kg	26	--	--	0
Aroclor-1242	µg/Kg	26	--	--	0
Aroclor-1248	µg/Kg	26	--	--	0
Aroclor-1254	µg/Kg	26	5.8	441	5
Aroclor-1260	µg/Kg	26	2.8 J	84.5 P	9
Pesticides					
4,4'-DDD	µg/Kg	26	--	--	0
4,4'-DDE	µg/Kg	26	0.43 J	4.12	6
4,4'-DDT	µg/Kg	26	1.19 J	8.58	8
Aldrin	µg/Kg	26	--	--	0
alpha-BHC	µg/Kg	26	--	--	0
alpha-Chlordane	µg/Kg	26	--	--	0
beta-BHC	µg/Kg	26	--	--	0
delta-BHC	µg/Kg	26	--	--	0
Dieldrin	µg/Kg	26	0.583 J	0.583 J	1
Endosulfan I	µg/Kg	26	--	--	0
Endosulfan II	µg/Kg	26	--	--	0
Endosulfan sulfate	µg/Kg	26	--	--	0
Endrin	µg/Kg	26	--	--	0
Endrin aldehyde	µg/Kg	26	0.579 J	5.72	3
Endrin ketone	µg/Kg	26	0.461 J	0.461 J	1
gamma-BHC (Lindane)	µg/Kg	26	--	--	0
gamma-Chlordane	µg/Kg	26	--	--	0
Heptachlor	µg/Kg	26	--	--	0
Heptachlor epoxide	µg/Kg	26	--	--	0
Methoxychlor	µg/Kg	26	--	--	0
Toxaphene	µg/Kg	26	--	--	0

* Data qualifier included with concentration value

Table 4-46
Exposure Unit 13
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	34	1.95	9.3	2
Alpha	pCi/g	32	4.42	3030	32
Americium-241	pCi/g	34	--	--	0
Beta	pCi/g	32	12.8	1180	32
Cesium-137	pCi/g	34	0.0313	0.148	6
Cobalt-60	pCi/g	34	--	--	0
Plutonium-238	pCi/g	10	--	--	0
Plutonium-239/240	pCi/g	10	0.536	0.536	1
Potassium-40	pCi/g	12	14.2	23	12
Protactinium-231	pCi/g	34	--	--	0
Radium-226	pCi/g	48	0.375	1140	48
Radium-228	pCi/g	34	0.411	1.18	32
Strontium-90	pCi/g	10	--	--	0
Thorium-228	pCi/g	48	0.441	2.1	45
Thorium-230	pCi/g	48	0.526	978	48
Thorium-232	pCi/g	48	0.349	2.07	48
Total Activity	pCi/g	13	--	--	0
Total Uranium	μg/g	48	0.724	44.8	46
Uranium-234	pCi/g	48	0.421	29.7	48
Uranium-235	pCi/g	48	0.099	1.2	5
Uranium-238	pCi/g	48	0.481	26.2	48
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	42	--	--	0
1,2-Dichlorobenzene	μg/Kg	42	--	--	0
1,3-Dichlorobenzene	μg/Kg	42	--	--	0
1,4-Dichlorobenzene	μg/Kg	42	--	--	0
2,4,5-Trichlorophenol	μg/Kg	42	--	--	0
2,4,6-Trichlorophenol	μg/Kg	42	--	--	0
2,4-Dichlorophenol	μg/Kg	42	--	--	0
2,4-Dimethylphenol	μg/Kg	42	--	--	0
2,4-Dinitrophenol	μg/Kg	42	--	--	0
2-Chloronaphthalene	μg/Kg	42	--	--	0
2-Chlorophenol	μg/Kg	42	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	42	--	--	0
2-Methylnaphthalene	μg/Kg	42	25.4 J	819	6
2-Nitroaniline	μg/Kg	42	--	--	0
2-Nitrophenol	μg/Kg	42	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	42	--	--	0
3-Nitroaniline	μg/Kg	42	--	--	0
4-Bromophenylphenylether	μg/Kg	42	--	--	0
4-Chloro-3-methylphenol	μg/Kg	42	--	--	0
4-Chloroaniline	μg/Kg	42	--	--	0
4-Chlorophenylphenylether	μg/Kg	42	--	--	0

* Data qualifier included with concentration value

Table 4-46
Exposure Unit 13
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
4-Nitroaniline	µg/Kg	42	--	--	0
4-Nitrophenol	µg/Kg	42	--	--	0
Benzoic Acid	µg/Kg	42	--	--	0
Benzyl Alcohol	µg/Kg	2	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	42	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	42	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	42	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	42	42.1 J	1380	8
Butylbenzylphthalate	µg/Kg	42	--	--	0
Carbazole	µg/Kg	42	--	--	0
Dibenzofuran	µg/Kg	42	34.1 J	60.2 J	2
Diethylphthalate	µg/Kg	42	--	--	0
Dimethylphthalate	µg/Kg	42	--	--	0
Di-n-butylphthalate	µg/Kg	42	--	--	0
Di-n-octylphthalate	µg/Kg	42	310 J	310 J	1
Diphenylamine	µg/Kg	27	--	--	0
Hexachlorobenzene	µg/Kg	42	--	--	0
Hexachlorobutadiene	µg/Kg	42	--	--	0
Hexachlorocyclopentadiene	µg/Kg	42	--	--	0
Hexachloroethane	µg/Kg	42	--	--	0
Isophorone	µg/Kg	42	--	--	0
m,p-Cresols	µg/Kg	42	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	42	--	--	0
N-Nitrosodiphenylamine	µg/Kg	15	--	--	0
o-Cresol	µg/Kg	42	--	--	0
Pentachlorophenol	µg/Kg	42	--	--	0
Phenol	µg/Kg	42	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	35	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	35	--	--	0
1,1,2-Trichloroethane	µg/Kg	35	--	--	0
1,1-Dichloroethane	µg/Kg	35	--	--	0
1,1-Dichloroethene	µg/Kg	35	0.85	1.54	3
1,2-Dichloroethane	µg/Kg	35	--	--	0
1,2-Dichloropropane	µg/Kg	35	--	--	0
2-Butanone	µg/Kg	35	6.98	8.2	2
2-Hexanone	µg/Kg	35	--	--	0
4-Methyl-2-pentanone	µg/Kg	35	--	--	0
Acetone	µg/Kg	35	5.61	59.9	8
Benzene	µg/Kg	35	--	--	0
Bromodichloromethane	µg/Kg	35	--	--	0
Bromoform	µg/Kg	35	--	--	0
Bromomethane	µg/Kg	35	--	--	0
Carbon disulfide	µg/Kg	35	8.36	8.36	1

* Data qualifier included with concentration value

Table 4-46
Exposure Unit 13
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Carbon tetrachloride	µg/Kg	35	--	--	0
Chlorobenzene	µg/Kg	35	--	--	0
Chloroethane	µg/Kg	35	--	--	0
Chloroform	µg/Kg	35	1.7	1.7	1
Chloromethane	µg/Kg	35	--	--	0
cis-1,2-Dichloroethene	µg/Kg	35	0.77 J	999 D	4
cis-1,3-Dichloropropene	µg/Kg	35	--	--	0
Dibromochloromethane	µg/Kg	35	0.903 J	0.903 J	1
Ethylbenzene	µg/Kg	35	--	--	0
Methylene chloride	µg/Kg	35	1.3 J	15.2	6
Styrene	µg/Kg	35	--	--	0
Tetrachloroethene	µg/Kg	35	0.711 J	14.3	10
Toluene	µg/Kg	35	0.34 J	4.7	11
trans-1,2-Dichloroethene	µg/Kg	35	1 J	30.3	3
trans-1,3-Dichloropropene	µg/Kg	35	--	--	0
Trichloroethene	µg/Kg	35	0.437 J	6700 D	12
Vinyl chloride	µg/Kg	35	--	--	0
Xylenes (total)	µg/Kg	35	--	--	0

* Data qualifier included with concentration value

Table 4-47
Exposure Unit 14
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	15	6660	147000	15
Antimony	mg/Kg	15	0.519 BN	1.38 N	3
Arsenic	mg/Kg	15	1.42	9.32 N	15
Barium	mg/Kg	15	19.6	2210	15
Beryllium	mg/Kg	15	0.37 B	28	15
Boron	mg/Kg	15	4.76 B	1580 N*	15
Cadmium	mg/Kg	15	0.126 B	1.04 *	13
Calcium	mg/Kg	15	4040 *	240000	15
Chromium	mg/Kg	15	10.1	38 *N	15
Cobalt	mg/Kg	15	4.82	15	15
Copper	mg/Kg	15	23.2 *N	94.7 *N	15
Iron	mg/Kg	15	10900	33100	15
Lead	mg/Kg	15	5.03	67.8	15
Lithium	mg/Kg	15	11.4 B	46.8	15
Magnesium	mg/Kg	15	3080	232000	15
Manganese	mg/Kg	15	90.4 *	4300	15
Mercury	mg/Kg	15	0.01 B	0.075	12
Nickel	mg/Kg	15	12.7	37.3	15
Potassium	mg/Kg	15	1030 N	12200	15
Selenium	mg/Kg	15	0.461 B	5.25	14
Silver	mg/Kg	15	0.048 B	0.404 BN	15
Sodium	mg/Kg	15	64.3 *	6950 N	15
Thallium	mg/Kg	15	0.032 B	0.31	15
Vanadium	mg/Kg	15	18.2	65.9 *N	15
Zinc	mg/Kg	15	34.3	403	15
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	4	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	4	--	--	0
2,4-Dinitrotoluene	μg/Kg	15	--	--	0
2,6-Dinitrotoluene	μg/Kg	15	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	4	--	--	0
2-Nitrotoluene	μg/Kg	4	--	--	0
3-Dinitrobenzene	μg/Kg	4	--	--	0
3-Nitrotoluene	μg/Kg	4	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	4	--	--	0
4-Nitrotoluene	μg/Kg	4	--	--	0
HMX	μg/Kg	4	--	--	0
Nitrobenzene	μg/Kg	15	--	--	0
RDX	μg/Kg	4	--	--	0
Tetryl	μg/Kg	4	--	--	0
PAHs					
Acenaphthene	μg/Kg	15	--	--	0
Acenaphthylene	μg/Kg	15	--	--	0

* Data qualifier included with concentration value

Table 4-47
Exposure Unit 14
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	15	--	--	0
Benzo(a)anthracene	µg/Kg	15	--	--	0
Benzo(a)pyrene	µg/Kg	15	--	--	0
Benzo(b)fluoranthene	µg/Kg	15	--	--	0
Benzo(g,h,i)perylene	µg/Kg	15	--	--	0
Benzo(k)fluoranthene	µg/Kg	15	--	--	0
Chrysene	µg/Kg	15	1.78 J	1.78 J	1
Dibenzo(a,h)anthracene	µg/Kg	15	--	--	0
Fluoranthene	µg/Kg	15	3 J	23.3 J	2
Fluorene	µg/Kg	15	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	15	--	--	0
Naphthalene	µg/Kg	15	1410 J	1410 J	1
Phenanthrene	µg/Kg	15	--	--	0
Pyrene	µg/Kg	15	19.8 J	19.8 J	1
PCBs					
Aroclor-1016	µg/Kg	8	--	--	0
Aroclor-1221	µg/Kg	8	--	--	0
Aroclor-1232	µg/Kg	8	--	--	0
Aroclor-1242	µg/Kg	8	--	--	0
Aroclor-1248	µg/Kg	8	--	--	0
Aroclor-1254	µg/Kg	8	--	--	0
Aroclor-1260	µg/Kg	8	--	--	0
Pesticides					
4,4'-DDD	µg/Kg	8	--	--	0
4,4'-DDE	µg/Kg	8	--	--	0
4,4'-DDT	µg/Kg	8	0.936 J	0.936 J	1
Aldrin	µg/Kg	8	--	--	0
alpha-BHC	µg/Kg	8	--	--	0
alpha-Chlordane	µg/Kg	8	--	--	0
beta-BHC	µg/Kg	8	--	--	0
delta-BHC	µg/Kg	8	--	--	0
Dieldrin	µg/Kg	8	--	--	0
Endosulfan I	µg/Kg	8	--	--	0
Endosulfan II	µg/Kg	8	--	--	0
Endosulfan sulfate	µg/Kg	8	--	--	0
Endrin	µg/Kg	8	--	--	0
Endrin aldehyde	µg/Kg	8	--	--	0
Endrin ketone	µg/Kg	8	--	--	0
gamma-BHC (Lindane)	µg/Kg	8	--	--	0
gamma-Chlordane	µg/Kg	8	--	--	0
Heptachlor	µg/Kg	8	--	--	0
Heptachlor epoxide	µg/Kg	8	--	--	0
Methoxychlor	µg/Kg	8	--	--	0
Toxaphene	µg/Kg	8	--	--	0

* Data qualifier included with concentration value

Table 4-47
Exposure Unit 14
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	37	1 J	5.11	2
Alpha	pCi/g	8	9.8	22.1	8
Americium-241	pCi/g	37	--	--	0
Beta	pCi/g	8	20.1	40.7	8
Cesium-137	pCi/g	39	0.0291	1.27	18
Cobalt-60	pCi/g	37	--	--	0
Potassium-40	pCi/g	18	11.4 J	24.6	18
Protactinium-231	pCi/g	37	--	--	0
Radium-226	pCi/g	43	0.465	299	43
Radium-228	pCi/g	37	0.51	1.25	35
Thorium-228	pCi/g	43	0.578	1.7	42
Thorium-230	pCi/g	43	0.582	4.47	41
Thorium-232	pCi/g	43	0.46	1.29	43
Total Activity	pCi/g	2	--	--	0
Total Uranium	μg/g	43	1.86	9.96	43
Uranium-234	pCi/g	43	0.514	5.6	42
Uranium-235	pCi/g	43	0.0395	0.898	12
Uranium-238	pCi/g	43	0.345	3.82	42
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	15	--	--	0
1,2-Dichlorobenzene	μg/Kg	15	--	--	0
1,3-Dichlorobenzene	μg/Kg	15	--	--	0
1,4-Dichlorobenzene	μg/Kg	15	--	--	0
2,4,5-Trichlorophenol	μg/Kg	15	--	--	0
2,4,6-Trichlorophenol	μg/Kg	15	--	--	0
2,4-Dichlorophenol	μg/Kg	15	--	--	0
2,4-Dimethylphenol	μg/Kg	15	--	--	0
2,4-Dinitrophenol	μg/Kg	15	--	--	0
2-Chloronaphthalene	μg/Kg	15	--	--	0
2-Chlorophenol	μg/Kg	15	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	15	--	--	0
2-Methylnaphthalene	μg/Kg	15	2080	2080	1
2-Nitroaniline	μg/Kg	15	--	--	0
2-Nitrophenol	μg/Kg	15	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	15	--	--	0
3-Nitroaniline	μg/Kg	15	--	--	0
4-Bromophenylphenylether	μg/Kg	15	--	--	0
4-Chloro-3-methylphenol	μg/Kg	15	--	--	0
4-Chloroaniline	μg/Kg	15	--	--	0
4-Chlorophenylphenylether	μg/Kg	15	--	--	0
4-Nitroaniline	μg/Kg	15	--	--	0
4-Nitrophenol	μg/Kg	15	--	--	0
Benzoic Acid	μg/Kg	15	--	--	0

* Data qualifier included with concentration value

Table 4-47
Exposure Unit 14
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethoxy)methane	µg/Kg	15	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	15	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	15	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	15	2270	2270	1
Butylbenzylphthalate	µg/Kg	15	--	--	0
Carbazole	µg/Kg	15	--	--	0
Dibenzofuran	µg/Kg	15	--	--	0
Diethylphthalate	µg/Kg	15	--	--	0
Dimethylphthalate	µg/Kg	15	--	--	0
Di-n-butylphthalate	µg/Kg	15	--	--	0
Di-n-octylphthalate	µg/Kg	15	506	506	1
Diphenylamine	µg/Kg	14	--	--	0
Hexachlorobenzene	µg/Kg	15	--	--	0
Hexachlorobutadiene	µg/Kg	15	--	--	0
Hexachlorocyclopentadiene	µg/Kg	15	--	--	0
Hexachloroethane	µg/Kg	15	--	--	0
Isophorone	µg/Kg	15	--	--	0
m,p-Cresols	µg/Kg	15	51.9 J	51.9 J	1
N-Nitroso-di-n-propylamine	µg/Kg	15	--	--	0
N-Nitrosodiphenylamine	µg/Kg	1	--	--	0
o-Cresol	µg/Kg	15	--	--	0
Pentachlorophenol	µg/Kg	15	--	--	0
Phenol	µg/Kg	15	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	8	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	8	--	--	0
1,1,2-Trichloroethane	µg/Kg	8	--	--	0
1,1-Dichloroethane	µg/Kg	8	--	--	0
1,1-Dichloroethene	µg/Kg	8	1	1	1
1,2-Dichloroethane	µg/Kg	8	--	--	0
1,2-Dichloropropane	µg/Kg	8	--	--	0
2-Butanone	µg/Kg	8	54.9	54.9	1
2-Hexanone	µg/Kg	8	--	--	0
4-Methyl-2-pentanone	µg/Kg	8	--	--	0
Acetone	µg/Kg	8	2.2 J	234	5
Benzene	µg/Kg	8	--	--	0
Bromodichloromethane	µg/Kg	8	--	--	0
Bromoform	µg/Kg	8	--	--	0
Bromomethane	µg/Kg	8	--	--	0
Carbon disulfide	µg/Kg	8	4.21 J	4.21 J	1
Carbon tetrachloride	µg/Kg	8	--	--	0
Chlorobenzene	µg/Kg	8	--	--	0
Chloroethane	µg/Kg	8	--	--	0
Chloroform	µg/Kg	8	--	--	0

* Data qualifier included with concentration value

Table 4-47
Exposure Unit 14
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chloromethane	µg/Kg	8	--	--	0
cis-1,2-Dichloroethene	µg/Kg	8	--	--	0
cis-1,3-Dichloropropene	µg/Kg	8	--	--	0
Dibromochloromethane	µg/Kg	8	--	--	0
Ethylbenzene	µg/Kg	8	--	--	0
Methylene chloride	µg/Kg	8	--	--	0
Styrene	µg/Kg	8	--	--	0
Tetrachloroethene	µg/Kg	8	0.83 J	0.83	1
Toluene	µg/Kg	8	0.65 J	1.35	2
trans-1,2-Dichloroethene	µg/Kg	8	--	--	0
trans-1,3-Dichloropropene	µg/Kg	8	--	--	0
Trichloroethene	µg/Kg	8	0.56 J	0.56 J	1
Vinyl chloride	µg/Kg	8	--	--	0
Xylenes (total)	µg/Kg	8	--	--	0

* Data qualifier included with concentration value

Table 4-48
Exposure Unit 17
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	417	3310 *	147000	417
Antimony	mg/Kg	416	0.25 BN	3.92 J	122
Arsenic	mg/Kg	417	0.846	51.8 N	417
Barium	mg/Kg	416	17.3 *N	2670 N*	416
Beryllium	mg/Kg	417	0.15 B	28	416
Boron	mg/Kg	417	0.63 B	1580 N*	414
Cadmium	mg/Kg	417	0.029 BE	2.04 E	203
Calcium	mg/Kg	417	1580	240000	417
Chromium	mg/Kg	417	2.9	196	417
Cobalt	mg/Kg	417	0.24 BE	30.8	417
Copper	mg/Kg	417	3.1	1050	417
Iron	mg/Kg	417	2260	154000 J	417
Lead	mg/Kg	416	2.36	686	416
Lithium	mg/Kg	414	4.08 E	106	414
Magnesium	mg/Kg	418	1310	232000	418
Manganese	mg/Kg	418	89.3 E	5010 *	418
Mercury	mg/Kg	415	0.003 B	1.5 N	378
Nickel	mg/Kg	418	0.65	348	418
Potassium	mg/Kg	417	379 E	12200	417
Selenium	mg/Kg	415	0.09 BN	5.8 B	367
Silver	mg/Kg	416	0.02 B	0.75 N	367
Sodium	mg/Kg	417	33	54800	417
Thallium	mg/Kg	417	0.02 B	0.398 E	395
Vanadium	mg/Kg	417	5	65.9 *N	417
Zinc	mg/Kg	417	6.7 E	2450	417
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	124	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	124	--	--	0
2,4-Dinitrotoluene	μg/Kg	468	64.1 J	108	2
2,6-Dinitrotoluene	μg/Kg	468	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	124	--	--	0
2-Nitrotoluene	μg/Kg	123	109	109	1
3-Dinitrobenzene	μg/Kg	124	--	--	0
3-Nitrotoluene	μg/Kg	124	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	124	--	--	0
4-Nitrotoluene	μg/Kg	124	--	--	0
HMX	μg/Kg	124	--	--	0
Nitrobenzene	μg/Kg	468	--	--	0
RDX	μg/Kg	124	--	--	0
Tetryl	μg/Kg	124	--	--	0
PAHs					
Acenaphthene	μg/Kg	461	10.9 J	25000 E	17
Acenaphthylene	μg/Kg	463	1.07 J	290	13

* Data qualifier included with concentration value

Table 4-48
Exposure Unit 17
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	459	5.5	24700	27
Benzo(a)anthracene	µg/Kg	459	0.571 J	73300	100
Benzo(a)pyrene	µg/Kg	459	2.09	82500	85
Benzo(b)fluoranthene	µg/Kg	459	0.604	42800 D	106
Benzo(g,h,i)perylene	µg/Kg	459	1.47 J	54100	70
Benzo(k)fluoranthene	µg/Kg	459	0.61	62900	73
Chrysene	µg/Kg	459	0.747 J	76000	132
Dibenzo(a,h)anthracene	µg/Kg	459	1.43 J	22500	15
Fluoranthene	µg/Kg	459	0.557 J	92400 D	144
Fluorene	µg/Kg	463	4.96 J	15200 J	29
Indeno(1,2,3-cd)pyrene	µg/Kg	459	1.26 J	43600	49
Naphthalene	µg/Kg	463	1.42 J	2170	37
Phenanthrene	µg/Kg	459	1.6	71600 D	123
Pyrene	µg/Kg	457	0.82	99700 D	125
PCBs					
Aroclor-1016	µg/Kg	324	--	--	0
Aroclor-1221	µg/Kg	324	--	--	0
Aroclor-1232	µg/Kg	324	--	--	0
Aroclor-1242	µg/Kg	324	3.9 J	8.8	4
Aroclor-1248	µg/Kg	324	--	--	0
Aroclor-1254	µg/Kg	324	2.3	714 JP	38
Aroclor-1260	µg/Kg	324	1.4 J	70200	82
Pesticides					
4,4'-DDD	µg/Kg	305	0.26 J	2.18 J	11
4,4'-DDE	µg/Kg	305	0.19 JP	13.3	81
4,4'-DDT	µg/Kg	305	0.506 J	18.9	79
Aldrin	µg/Kg	305	0.24 J	0.24 J	1
alpha-BHC	µg/Kg	305	0.27 J	0.27 J	1
alpha-Chlordane	µg/Kg	305	--	--	0
beta-BHC	µg/Kg	305	0.33 JP	0.38 J	2
delta-BHC	µg/Kg	305	0.47	0.91	3
Dieldrin	µg/Kg	305	0.222 J	0.92 JP	12
Endosulfan I	µg/Kg	305	--	--	0
Endosulfan II	µg/Kg	305	--	--	0
Endosulfan sulfate	µg/Kg	305	0.33 J	0.99 J	7
Endrin	µg/Kg	305	--	--	0
Endrin aldehyde	µg/Kg	305	0.39 J	5.72	7
Endrin ketone	µg/Kg	305	0.31 JP	0.53 J	4
gamma-BHC (Lindane)	µg/Kg	305	0.34 J	0.64 J	2
gamma-Chlordane	µg/Kg	305	0.306 J	0.306 J	1
Heptachlor	µg/Kg	305	0.36 J	1.7	4
Heptachlor epoxide	µg/Kg	305	110 J	110 J	1
Methoxychlor	µg/Kg	305	1.8 J	20.3	4
Toxaphene	µg/Kg	306	--	--	0

* Data qualifier included with concentration value

Table 4-48
Exposure Unit 17
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	758	0-.126 J	132	71
Alpha	pCi/g	406	3.78	19000	404
Americium-241	pCi/g	758	0.0301	0.636	9
Beta	pCi/g	405	10.2	15100	405
Cesium-137	pCi/g	811	00 J	5.15 J	418
Cobalt-60	pCi/g	758	0.0058 J	0.0058 J	1
Plutonium-238	pCi/g	34	--	--	0
Plutonium-239/240	pCi/g	34	0.129	0.536	3
Potassium-40	pCi/g	348	2.34	48.7	346
Protactinium-231	pCi/g	758	0-.264 J	127	7
Radium-226	pCi/g	911	0.375	1140	900
Radium-228	pCi/g	758	0.0607	3.18	741
Strontium-90	pCi/g	31	--	--	0
Thorium-228	pCi/g	911	0.0481	4.66	880
Thorium-230	pCi/g	912	0.0906	978	888
Thorium-232	pCi/g	911	0.036	2.07	904
Total Activity	pCi/g	189	37.9	37.9	1
Total Uranium	µg/g	910	0.111	5630	884
Uranium-234	pCi/g	911	0.0527	8340	891
Uranium-235	pCi/g	910	0.0306	886	190
Uranium-238	pCi/g	912	0.0416	8830	902
Semivolatile Organics					
1,2,4-Trichlorobenzene	µg/Kg	461	--	--	0
1,2-Dichlorobenzene	µg/Kg	463	--	--	0
1,3-Dichlorobenzene	µg/Kg	463	--	--	0
1,4-Dichlorobenzene	µg/Kg	463	--	--	0
2,4,5-Trichlorophenol	µg/Kg	463	--	--	0
2,4,6-Trichlorophenol	µg/Kg	462	--	--	0
2,4-Dichlorophenol	µg/Kg	463	--	--	0
2,4-Dimethylphenol	µg/Kg	463	--	--	0
2,4-Dinitrophenol	µg/Kg	463	--	--	0
2-Chloronaphthalene	µg/Kg	463	--	--	0
2-Chlorophenol	µg/Kg	463	21.7 J	21.7 J	1
2-Methyl-4,6-dinitrophenol	µg/Kg	459	--	--	0
2-Methylnaphthalene	µg/Kg	456	25.4 J	2950	21
2-Nitroaniline	µg/Kg	457	--	--	0
2-Nitrophenol	µg/Kg	463	--	--	0
3,3'-Dichlorobenzidine	µg/Kg	459	--	--	0
3-Nitroaniline	µg/Kg	463	--	--	0
4-Bromophenylphenylether	µg/Kg	459	--	--	0
4-Chloro-3-methylphenol	µg/Kg	463	--	--	0
4-Chloroaniline	µg/Kg	463	--	--	0
4-Chlorophenylphenylether	µg/Kg	459	--	--	0

* Data qualifier included with concentration value

Table 4-48
Exposure Unit 17
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
4-Nitroaniline	µg/Kg	459	--	--	0
4-Nitrophenol	µg/Kg	463	--	--	0
Benzoic Acid	µg/Kg	448	69 J	602 J	3
Benzyl Alcohol	µg/Kg	4	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	463	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	463	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	463	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	459	42 J	7900	60
Butylbenzylphthalate	µg/Kg	459	17.7 J	62.7 J	2
Carbazole	µg/Kg	459	28.7 J	20000	12
Dibenzofuran	µg/Kg	463	20.8 J	2180	9
Diethylphthalate	µg/Kg	463	31.6 J	384 J	2
Dimethylphthalate	µg/Kg	463	--	--	0
Di-n-butylphthalate	µg/Kg	459	291 J	291 J	1
Di-n-octylphthalate	µg/Kg	458	150 J	506	3
Diphenylamine	µg/Kg	287	--	--	0
Hexachlorobenzene	µg/Kg	459	--	--	0
Hexachlorobutadiene	µg/Kg	463	--	--	0
Hexachlorocyclopentadiene	µg/Kg	463	--	--	0
Hexachloroethane	µg/Kg	463	--	--	0
Isophorone	µg/Kg	463	--	--	0
m,p-Cresols	µg/Kg	456	19.7 J	498	3
N-Nitroso-di-n-propylamine	µg/Kg	463	--	--	0
N-Nitrosodiphenylamine	µg/Kg	172	--	--	0
o-Cresol	µg/Kg	463	--	--	0
p-Cresol	µg/Kg	7	--	--	0
Pentachlorophenol	µg/Kg	459	--	--	0
PETN	µg/Kg	1	--	--	0
Phenol	µg/Kg	463	28.1 J	28.1 J	1
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	363	0.75 J	0.83 J	3
1,1,2,2-Tetrachloroethane	µg/Kg	363	--	--	0
1,1,2-Trichloroethane	µg/Kg	363	--	--	0
1,1-Dichloroethane	µg/Kg	363	--	--	0
1,1-Dichloroethene	µg/Kg	363	0.384 J	32.2	47
1,2-Dichloroethane	µg/Kg	363	--	--	0
1,2-Dichloroethene	µg/Kg	7	--	--	0
1,2-Dichloropropane	µg/Kg	363	--	--	0
2-Butanone	µg/Kg	363	2.6 J	307	36
2-Hexanone	µg/Kg	363	0.66 J	4.4	4
4-Methyl-2-pentanone	µg/Kg	363	1 J	1 J	1
Acetone	µg/Kg	363	1.5 J	10100 E	127
Benzene	µg/Kg	363	0.078 J	4.1	27
Bromodichloromethane	µg/Kg	363	--	--	0

* Data qualifier included with concentration value

Table 4-48
Exposure Unit 17
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Bromoform	µg/Kg	363	--	--	0
Bromomethane	µg/Kg	363	--	--	0
Carbon disulfide	µg/Kg	363	0.6 J	123 J	26
Carbon tetrachloride	µg/Kg	363	--	--	0
Chlorobenzene	µg/Kg	363	--	--	0
Chloroethane	µg/Kg	363	--	--	0
Chloroform	µg/Kg	363	0.36 J	1.7	3
Chloromethane	µg/Kg	363	--	--	0
cis-1,2-Dichloroethene	µg/Kg	353	0.4 J	999 D	12
cis-1,3-Dichloropropene	µg/Kg	363	--	--	0
Dibromochloromethane	µg/Kg	363	0.903 J	0.903 J	1
Ethylbenzene	µg/Kg	363	0.4 J	18.3	5
m,p-Xylenes	µg/Kg	1	--	--	0
Methylene chloride	µg/Kg	364	0.82	220 J	25
o-Xylene	µg/Kg	3	--	--	0
Styrene	µg/Kg	363	--	--	0
Tetrachloroethene	µg/Kg	363	0.711 J	63000 D	24
Toluene	µg/Kg	363	0.19 J	8.5	94
trans-1,2-Dichloroethene	µg/Kg	355	0.28 J	30.3	9
trans-1,3-Dichloropropene	µg/Kg	363	--	--	0
Trichloroethene	µg/Kg	362	0.437 J	6700 D	24
Vinyl chloride	µg/Kg	363	1.4	5.4	3
Xylenes (total)	µg/Kg	362	0.32 J	16.2	19

* Data qualifier included with concentration value

Table 4-49
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	98	3330 E	25000	98
Antimony	mg/Kg	98	0.25 BN	3.24 N	28
Arsenic	mg/Kg	98	1.4 E	20.6	98
Barium	mg/Kg	98	56.7	208	98
Beryllium	mg/Kg	98	0.15 B	1.2	98
Boron	mg/Kg	98	0.63 B	51.5	96
Cadmium	mg/Kg	98	0.07 B	2	21
Calcium	mg/Kg	98	10500	98400	98
Chromium	mg/Kg	98	5.1 E	61.7 *	98
Cobalt	mg/Kg	98	3.8 E	20.5	98
Copper	mg/Kg	98	8.25	63.3	98
Iron	mg/Kg	98	8720 E	44000	98
Lead	mg/Kg	98	2.36	50.5	98
Lithium	mg/Kg	98	6.9	106	98
Magnesium	mg/Kg	98	4260	22600	98
Manganese	mg/Kg	98	354	1670	98
Mercury	mg/Kg	98	0.003 B	0.1	78
Nickel	mg/Kg	98	7.1 *E	44.5	98
Potassium	mg/Kg	98	505 E	5590	98
Selenium	mg/Kg	98	0.13 BN	3.2 B	76
Silver	mg/Kg	98	0.02 B	0.411 B	91
Sodium	mg/Kg	98	65.4 E	753	98
Thallium	mg/Kg	98	0.02 B	0.398 E	93
Vanadium	mg/Kg	98	7.8 E	49.4	98
Zinc	mg/Kg	98	18.7 *E	175	98
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/Kg	39	--	--	0
2,4,6-Trinitrotoluene	µg/Kg	39	--	--	0
2,4-Dinitrotoluene	µg/Kg	110	--	--	0
2,6-Dinitrotoluene	µg/Kg	110	--	--	0
2-Amino-4,6-dinitrotoluene	µg/Kg	39	--	--	0
2-Nitrotoluene	µg/Kg	39	--	--	0
3-Dinitrobenzene	µg/Kg	39	--	--	0
3-Nitrotoluene	µg/Kg	39	--	--	0
4-Amino-2,6-dinitrotoluene	µg/Kg	39	--	--	0
4-Nitrotoluene	µg/Kg	39	--	--	0
HMX	µg/Kg	39	--	--	0
Nitrobenzene	µg/Kg	110	--	--	0
RDX	µg/Kg	39	--	--	0
Tetryl	µg/Kg	39	--	--	0
PAHs					
Acenaphthene	µg/Kg	108	180	180	1
Acenaphthylene	µg/Kg	108	--	--	0

* Data qualifier included with concentration value

Table 4-49
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	108	18	18	1
Benzo(a)anthracene	µg/Kg	108	0.65	38	7
Benzo(a)pyrene	µg/Kg	108	13.2	45	3
Benzo(b)fluoranthene	µg/Kg	108	1.14	80	6
Benzo(g,h,i)perylene	µg/Kg	108	1.81 J	100	8
Benzo(k)fluoranthene	µg/Kg	108	0.61	39.2 J	4
Chrysene	µg/Kg	108	0.747 J	35	18
Dibenzo(a,h)anthracene	µg/Kg	108	2	5	2
Fluoranthene	µg/Kg	108	1.02 J	120	5
Fluorene	µg/Kg	108	6.9	6.9	1
Indeno(1,2,3-cd)pyrene	µg/Kg	108	1.26 J	27.5 J	4
Naphthalene	µg/Kg	108	1.42 J	19	3
Phenanthrene	µg/Kg	108	1.6	80	19
Pyrene	µg/Kg	108	0.82	201	7
PCBs					
Aroclor-1016	µg/Kg	76	--	--	0
Aroclor-1221	µg/Kg	76	--	--	0
Aroclor-1232	µg/Kg	76	--	--	0
Aroclor-1242	µg/Kg	76	--	--	0
Aroclor-1248	µg/Kg	76	--	--	0
Aroclor-1254	µg/Kg	76	2.3	124	4
Aroclor-1260	µg/Kg	76	4.7	26	3
Pesticides					
4,4'-DDD	µg/Kg	76	--	--	0
4,4'-DDE	µg/Kg	76	0.321 J	1.35 J	5
4,4'-DDT	µg/Kg	76	0.515 J	2.01	15
Aldrin	µg/Kg	76	0.24 J	0.24 J	1
alpha-BHC	µg/Kg	76	--	--	0
alpha-Chlordane	µg/Kg	76	--	--	0
beta-BHC	µg/Kg	76	--	--	0
delta-BHC	µg/Kg	76	--	--	0
Dieldrin	µg/Kg	76	--	--	0
Endosulfan I	µg/Kg	76	--	--	0
Endosulfan II	µg/Kg	76	--	--	0
Endosulfan sulfate	µg/Kg	76	0.818 J	0.818 J	1
Endrin	µg/Kg	76	--	--	0
Endrin aldehyde	µg/Kg	76	--	--	0
Endrin ketone	µg/Kg	76	--	--	0
gamma-BHC (Lindane)	µg/Kg	76	--	--	0
gamma-Chlordane	µg/Kg	76	--	--	0
Heptachlor	µg/Kg	76	0.36 J	1 J	2
Heptachlor epoxide	µg/Kg	76	--	--	0
Methoxychlor	µg/Kg	76	--	--	0
Toxaphene	µg/Kg	76	--	--	0

* Data qualifier included with concentration value

Table 4-49
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	82	0-.126 J	0-.126 J	1
Alpha	pCi/g	99	3.78	19.5	98
Americium-241	pCi/g	82	0.0371 J	0.0371 J	1
Beta	pCi/g	99	10.5	40.8	99
Cesium-137	pCi/g	94	00 J	0.429 J	3
Cobalt-60	pCi/g	82	0.0058 J	0.0058 J	1
Plutonium-238	pCi/g	2	--	--	0
Plutonium-239/240	pCi/g	2	--	--	0
Protactinium-231	pCi/g	82	0-.264 J	0-.264 J	1
Radium-226	pCi/g	132	0.381 J	1.43	132
Radium-228	pCi/g	82	0.572	1.39	82
Strontium-90	pCi/g	2	--	--	0
Thorium-228	pCi/g	132	0.54 J	4.66	127
Thorium-230	pCi/g	132	0.427 J	2.31	128
Thorium-232	pCi/g	132	0.311 J	1.72	131
Total Activity	pCi/g	48	--	--	0
Total Uranium	μg/g	130	0.548	3.15 J	117
Uranium-234	pCi/g	132	0.18 J	1.52	127
Uranium-235	pCi/g	132	0.0306	0.374	13
Uranium-238	pCi/g	132	0.304	1.44	132
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	107	--	--	0
1,2-Dichlorobenzene	μg/Kg	108	--	--	0
1,3-Dichlorobenzene	μg/Kg	108	--	--	0
1,4-Dichlorobenzene	μg/Kg	108	--	--	0
2,4,5-Trichlorophenol	μg/Kg	108	--	--	0
2,4,6-Trichlorophenol	μg/Kg	108	--	--	0
2,4-Dichlorophenol	μg/Kg	108	--	--	0
2,4-Dimethylphenol	μg/Kg	108	--	--	0
2,4-Dinitrophenol	μg/Kg	108	--	--	0
2-Chloronaphthalene	μg/Kg	108	--	--	0
2-Chlorophenol	μg/Kg	108	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	108	--	--	0
2-Methylnaphthalene	μg/Kg	105	--	--	0
2-Nitroaniline	μg/Kg	107	--	--	0
2-Nitrophenol	μg/Kg	108	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	108	--	--	0
3-Nitroaniline	μg/Kg	108	--	--	0
4-Bromophenylphenylether	μg/Kg	108	--	--	0
4-Chloro-3-methylphenol	μg/Kg	108	--	--	0
4-Chloroaniline	μg/Kg	108	--	--	0
4-Chlorophenylphenylether	μg/Kg	108	--	--	0
4-Nitroaniline	μg/Kg	108	--	--	0

* Data qualifier included with concentration value

Table 4-49
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
4-Nitrophenol	µg/Kg	108	--	--	0
Benzoic Acid	µg/Kg	105	--	--	0
Benzyl Alcohol	µg/Kg	1	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	108	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	108	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	108	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	108	61.2 J	600	4
Butylbenzylphthalate	µg/Kg	108	--	--	0
Carbazole	µg/Kg	108	--	--	0
Dibenzofuran	µg/Kg	108	--	--	0
Diethylphthalate	µg/Kg	108	--	--	0
Dimethylphthalate	µg/Kg	108	--	--	0
Di-n-butylphthalate	µg/Kg	108	--	--	0
Di-n-octylphthalate	µg/Kg	108	--	--	0
Diphenylamine	µg/Kg	60	--	--	0
Hexachlorobenzene	µg/Kg	108	--	--	0
Hexachlorobutadiene	µg/Kg	108	--	--	0
Hexachlorocyclopentadiene	µg/Kg	108	--	--	0
Hexachloroethane	µg/Kg	108	--	--	0
Isophorone	µg/Kg	108	--	--	0
m,p-Cresols	µg/Kg	105	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	108	--	--	0
N-Nitrosodiphenylamine	µg/Kg	48	--	--	0
o-Cresol	µg/Kg	108	--	--	0
p-Cresol	µg/Kg	3	--	--	0
Pentachlorophenol	µg/Kg	108	--	--	0
Phenol	µg/Kg	108	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	101	0.78 J	0.78 J	1
1,1,2,2-Tetrachloroethane	µg/Kg	101	--	--	0
1,1,2-Trichloroethane	µg/Kg	101	--	--	0
1,1-Dichloroethane	µg/Kg	101	--	--	0
1,1-Dichloroethene	µg/Kg	101	0.384 J	3.2	18
1,2-Dichloroethane	µg/Kg	101	--	--	0
1,2-Dichloroethene	µg/Kg	3	--	--	0
1,2-Dichloropropane	µg/Kg	101	--	--	0
2-Butanone	µg/Kg	101	9.24	88.8 J	3
2-Hexanone	µg/Kg	101	0.66 J	3	2
4-Methyl-2-pentanone	µg/Kg	101	1 J	1 J	1
Acetone	µg/Kg	101	2.3 J	10100 E	50
Benzene	µg/Kg	101	0.078 J	4.1	11
Bromodichloromethane	µg/Kg	101	--	--	0
Bromoform	µg/Kg	101	--	--	0
Bromomethane	µg/Kg	101	--	--	0

* Data qualifier included with concentration value

Table 4-49
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Carbon disulfide	µg/Kg	101	0.6 J	123 J	12
Carbon tetrachloride	µg/Kg	101	--	--	0
Chlorobenzene	µg/Kg	101	--	--	0
Chloroethane	µg/Kg	101	--	--	0
Chloroform	µg/Kg	101	--	--	0
Chloromethane	µg/Kg	101	--	--	0
cis-1,2-Dichloroethene	µg/Kg	98	40	213 E	3
cis-1,3-Dichloropropene	µg/Kg	101	--	--	0
Dibromochloromethane	µg/Kg	101	--	--	0
Ethylbenzene	µg/Kg	101	0.4 J	2.2	2
Methylene chloride	µg/Kg	101	18	220 J	4
Styrene	µg/Kg	101	--	--	0
Tetrachloroethene	µg/Kg	101	1.9	63000 D	3
Toluene	µg/Kg	101	0.3 J	4.7	20
trans-1,2-Dichloroethene	µg/Kg	98	0.28 J	4 J	3
trans-1,3-Dichloropropene	µg/Kg	101	--	--	0
Trichloroethene	µg/Kg	101	3.4	3050 D	3
Vinyl chloride	µg/Kg	101	1.4	5.4	3
Xylenes (total)	µg/Kg	101	0.32 J	16.2	8

* Data qualifier included with concentration value

Table 4-50
Exposure Unit 1
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Antimony	mg/Kg	0.94	SB-EU011-3300-2.0	1.04 BN
			SB-EU013-3302-1.0	0.993 BN
Barium	mg/Kg	263	C5-VS-SO-B300-1	279 J
Boron	mg/Kg	10.1	SD713-324	10.5 *
			SS504-692	10.9
Cadmium	mg/Kg	0.53	SD712-319	0.68
			SD713-324	1.1
Copper	mg/Kg	49.3	SB-EU012-3301-1.0	56.7 *N
			SB-EU014-3303-1.0	146 *N
Iron	mg/Kg	36400	TB501-2847-01.5-130	36500
			TB501-2848-03.0-095	36900
Lead	mg/Kg	37.6	SS504-692	37.7 *E
Mercury	mg/Kg	0.27	SD712-319	0.55
			SD713-324	1.1
Nickel	mg/Kg	38	C5-VS-SO-B300-1	46
Selenium	mg/Kg	0.37	SB-EU011-3300-2.0	0.864 B
			SB-EU012-3301-1.0	0.892 B
			SB-EU013-3302-1.0	0.697 B
			SB-EU014-3303-1.0	0.68 B
			SD712-319	1.7 N
			SD713-324	0.91 BN
			SD714-326	0.84 BN
			SS501-059	1.1
			SS503-064	1.3
			SS504-692	1.05 B
			SS505-694	1.47 B
			SS-EU011-3327	0.725 B
			TB501-2847-01.5-130	0.687 BN
			TB501-2848-03.0-095	0.57 BN
			TB501-2849-02.7-068	0.891 BN
Silver	mg/Kg	0.27	SS503-064	0.75 N
			SS505-694	0.341 B

* Data qualifier included with concentration value

Table 4-50
Exposure Unit 1
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SB-EU011-3300-2.0	0.115 BE
			SB-EU012-3301-1.0	0.13 E
			SB-EU013-3302-1.0	0.129 E
			SB-EU014-3303-1.0	0.133 E
			SD712-319	0.27
			SD713-324	0.14
			SD714-326	0.16 B
			SS501-059	0.1 B
			SS502-060	0.07 B
			SS503-064	0.09 B
			SS504-692	0.285 B
			SS-EU011-3327	0.11 BE
			TB501-2847-01.5-130	0.168 E
			TB501-2848-03.0-095	0.155 E
			TB501-2849-02.7-068	0.154 E
Vanadium	mg/Kg	35.2	SS502-060	36.7 *
			TB501-2847-01.5-130	39.3 N
			TB501-2848-03.0-095	42.5 N
PAHs				
Naphthalene	µg/Kg	--	SS504-692	292 J
PCBs				
Aroclor-1260	µg/Kg	--	SD714-326	8.9 J
Pesticides				
4,4'-DDD	µg/Kg	--	SS-EU011-3327	0.357 J
4,4'-DDE	µg/Kg	--	SB-EU012-3301-1.0	2.41 J
			SB-EU013-3302-1.0	2.36
			SS505-694	0.69 J
			SS-EU011-3327	2.67
4,4'-DDT	µg/Kg	--	SB-EU012-3301-1.0	3.47 J
			SB-EU013-3302-1.0	2.13
			SB-EU014-3303-1.0	0.711 J
			SS-EU011-3327	2.24
Dieldrin	µg/Kg	--	SB-EU013-3302-1.0	0.622 J
Radionuclides				
Actinium-227	pCi/g	0.08	SB5A016-2254-1.0	8.66
			SB5A016-2255-1.5	9.39
			SB5A016-2256-1.7	4.58
			SD746-2150	8
			SD747-2152	2.22
			SS5A016-2170	1.51
Alpha	pCi/g	15.1	SD714-326	15.5
			SS502-060	23.2
			SS503-064	230

* Data qualifier included with concentration value

Table 4-50
Exposure Unit 1
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	28.9	SS502-060	34.3
			SS503-064	219
Cesium-137	pCi/g	0.343	SB5A016-2255-1.5	0.434
			SD714-326	0.399 J
			SD746-2150	0.49
			SS504-692	0.864
			SS5A001-637	1.13
			SS5A004-640	1.07
			SS5A010-2164	0.417
			SS5A011-2165	0.402
			SS5A012-2166	0.423
			SS5A013-2167	0.391
Potassium-40	pCi/g	32.9	SB5A018-2211-2.0	48.7
Radium-226	pCi/g	1.2	SB5A010-2257-1.0	5.03
			SB5A013-2210-2.0	1.44
			SB5A016-2254-1.0	155
			SB5A016-2255-1.5	151
			SB5A016-2256-1.7	85.7
			SB5A018-2211-2.0	2.14
			SD746-2150	184
			SD746-2244	3.34
			SD746-2248	50
			SD747-2152	37.1
			SD747-2253	2.57
			SS504-692	6.07
			SS5A010-2164	5.36
			SS5A011-2165	1.92
			SS5A012-2166	4.57
			SS5A013-2167	3.72
			SS5A014-2168	4.79
			SS5A016-2170	13.4
			SS5A021-2214	6.39
			SS-EU011-3327	1.49
Radium-228	pCi/g	1.26	SB5A010-2257-1.0	1.75
			SB5A018-2211-2.0	2.53
			SS5A006-642	1.44
			SS5A010-2164	1.61
			SS5A012-2166	1.5
			SS5A013-2167	1.41
			SS5A014-2168	2.08
			SS5A021-2214	2.43

* Data qualifier included with concentration value

Table 4-50
Exposure Unit 1
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-228	pCi/g	1.64	SB5A010-2257-1.0	1.65
			SB-EU013-3302-1.0	1.67
			SS5A006-642	2.38
			SS5A010-2164	1.79
			SS5A021-2214	2.01
Thorium-230	pCi/g	1.39	SB5A010-2257-1.0	3.65
			SB5A013-2210-2.0	12.6
			SB5A016-2254-1.0	354
			SB5A016-2255-1.5	344
			SB5A016-2256-1.7	227
			SB5A019-2212-1.75	1.47
			SB-EU012-3301-1.0	2.62
			SB-EU013-3302-1.0	1.81
			SD746-2150	230
			SD746-2244	4.82
			SD746-2248	55.7
			SD747-2152	48.1
			SD747-2253	3.53
			SD-WD1-3406-0.5	1.66
			SS505-694	1.97
			SS5A010-2164	4.56
			SS5A011-2165	1.88
			SS5A012-2166	3.37
			SS5A013-2167	3.42
			SS5A014-2168	2.21
			SS5A016-2170	31.3
			SS5A021-2214	4.53
			SS-EU011-3327	2.14
			TB501-2848-03.0-095	1.42
Thorium-232	pCi/g	1.24	SB5A018-2211-2.0	1.69
			SB-EU011-3300-2.0	1.37
			SS504-692	1.36
			SS5A006-642	1.73
			SS5A010-2164	1.31

* Data qualifier included with concentration value

Table 4-50
Exposure Unit 1
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	µg/g	3.58	SB5A010-2257-1.0	6.56
			SB5A016-2254-1.0	16
			SB5A016-2255-1.5	13.6
			SB5A016-2256-1.7	10
			SB5A019-2212-1.75	4.12
			SB-EU014-3303-1.0	3.95
			SD746-2150	6.35
			SD746-2248	3.86
			SS502-060	27.1
			SS503-064	366
			SS504-692	27.7
			SS5A001-637	8.97
			SS5A002-638	8.01
			SS5A006-642	7.6
			SS5A008-644	3.67
			SS5A010-2164	7.63
			SS5A012-2166	6
			SS5A013-2167	6.73
			SS5A014-2168	6.81
			SS5A016-2170	4.43
			SS5A021-2214	10
			TB501-2847-01.5-130	5.6
			TB501-2849-02.7-068	18.2
Uranium-234	pCi/g	1.66	SB5A010-2257-1.0	2.54
			SB5A016-2254-1.0	6.8
			SB5A016-2255-1.5	7.05
			SB5A016-2256-1.7	4.29
			SD746-2150	4.14
			SD746-2248	1.71
			SS502-060	7.09
			SS503-064	119
			SS504-692	7.66
			SS505-694	1.79
			SS5A001-637	2.51
			SS5A002-638	4.07
			SS5A006-642	2.26
			SS5A010-2164	2.37
			SS5A012-2166	3.4
			SS5A013-2167	3.79
			SS5A016-2170	2.11
			SS5A021-2214	3.4
			TB501-2847-01.5-130	2.35
			TB501-2849-02.7-068	5.61

* Data qualifier included with concentration value

Table 4-50
Exposure Unit 1
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/g	0.0847	SB5A016-2254-1.0	1.18
			SB5A016-2255-1.5	0.248
			SB5A016-2256-1.7	0.173
			SB5A019-2212-1.75	0.119
			SD712-319	0.109 J
			SD746-2150	0.257
			SD747-2253	0.411
			SD-WD1-3406-0.5	0.404
			SS502-060	0.264 J
			SS503-064	6.15
			SS504-692	0.338
			SS5A006-642	0.262
			SS5A011-2165	0.177
			SS5A012-2166	0.507
			SS5A013-2167	0.367
			SS5A014-2168	0.129
			SS5A021-2214	0.221
			TB501-2847-01.5-130	0.214
Uranium-238	pCi/g	1.34	SB5A010-2257-1.0	3.01
			SB5A013-2210-2.0	1.47
			SB5A016-2254-1.0	5.09
			SB5A016-2255-1.5	4.7
			SB5A016-2256-1.7	3.12
			SB5A019-2212-1.75	1.48
			SB-EU012-3301-1.0	1.72
			SD746-2150	3.01
			SS502-060	6.5
			SS503-064	120
			SS504-692	7.52
			SS505-694	2.17
			SS5A001-637	2.73
			SS5A002-638	4.13
			SS5A004-640	1.42
			SS5A006-642	2.69
			SS5A010-2164	2.5
			SS5A012-2166	2.55
			SS5A013-2167	2.72
			SS5A014-2168	1.82
			SS5A016-2170	1.81
			SS5A021-2214	3.72
			TB501-2847-01.5-130	2.25
			TB501-2849-02.7-068	6.27
Semivolatile Organics				
2-Methylnaphthalene	µg/Kg	--	SS504-692	440

* Data qualifier included with concentration value

Table 4-50
Exposure Unit 1
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Di-n-octylphthalate	μg/Kg	--	C5-VS-SO-B300-1	150 J
Volatile Organics				
1,1-Dichloroethene	μg/Kg	--	SS505-694	1.5
2-Butanone	μg/Kg	--	SS501-059	6
			SS502-060	6.5
			SS503-064	5.1
Acetone	μg/Kg	--	SB-EU012-3301-1.0	4.22 J
			SD714-326	8 J
			SS501-059	50.2
			SS502-060	65.6
			SS503-064	56.8
Benzene	μg/Kg	--	SS502-060	0.54 J
Carbon disulfide	μg/Kg	--	SS501-059	1.2 J
			SS503-064	1.8 J
Ethylbenzene	μg/Kg	--	SS503-064	0.58 J
Toluene	μg/Kg	--	SS501-059	0.74
			SS503-064	1.5
Xylenes (total)	μg/Kg	--	SS503-064	0.39 J
			SS505-694	1.3 J

* Data qualifier included with concentration value

Table 4-51
Exposure Unit 2
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*	
Metals					
Aluminum	mg/Kg	19100	SB-DRUM01-3370-1.0	24600	E*
			SS402-039	40100	
			SS4A012-611	24400	
			SS-DRUM01-3369	38400	*
Antimony	mg/Kg	0.94	SB-EU022-3306-2.0	1.22	N
			SS-DRUM01-3369	1.83	N
			SS-EU021-3328	1.15	N
			SS-EU022-3329	1.13	BN
Barium	mg/Kg	263	SB-EU022-3306-2.0	290	N*
			SS402-039	481	
Beryllium	mg/Kg	1	SB-DRUM01-3370-1.0	1.5	E*
			SS402-039	5.2	
			SS4A012-611	2.38	
			SS-DRUM01-3369	3.42	
Boron	mg/Kg	10.1	SB-DRUM01-3370-1.0	40.5	E*N
			SS402-039	147	
			SS4A012-611	10.2	
			SS-DRUM01-3369	85.8	
Cadmium	mg/Kg	0.53	SS4A012-611	0.964	
Calcium	mg/Kg	58900	SS402-039	238000	*
			SS4A012-611	88100	
Chromium	mg/Kg	25.8	SB-DRUM01-3370-1.0	31.5	*N
			SS401-037	26.1	
			SS4A012-611	67	
			SS-DRUM01-3369	29.4	*
			SS-EU021-3328	30.9	*
Copper	mg/Kg	49.3	SS404-041	55	N
			SS4A012-611	57.6	
Lead	mg/Kg	37.6	SS403-040	588	
			SS404-041	48.8	
			SS406-043	42.8	
			SS4A008-606	38.3	
			SS4A010-608	96.6	
			SS4A012-611	67.8	
			SS4B003-614	49.7	
			SS-DRUM01-3369	38	*
Lithium	mg/Kg	36.8	SS808-077	103	
Magnesium	mg/Kg	14800	SS406-043	29500	
			SS4A012-611	44400	
Mercury	mg/Kg	0.27	C5-AC-SO-F200-1	0.4	J
			SS404-041	1.5	N

* Data qualifier included with concentration value

Table 4-51
Exposure Unit 2
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Nickel	mg/Kg	38	SS404-041	46.8 *E
			SS-DRUM01-3369	43.5 *
Potassium	mg/Kg	2860	SB-DRUM01-3370-1.0	6010 *
			SS-DRUM01-3369	9150 N
Selenium	mg/Kg	0.37	C5-AC-SO-F200-1	0.52 J
			SB404-121-4	0.63 B
			SB-DRUM01-3370-1.0	1.28
			SB-EU021-3305-1.0	0.856 B
			SB-EU022-3306-2.0	0.87 B
			SB-EU023-3307-2.0	0.473 B
			SS402-039	5.4 B
			SS403-040	0.87 B
			SS404-041	1.5
			SS405-042	1
			SS406-043	0.69 BN
			SS4A008-606	1.16 B
			SS4A010-608	1.06 B
			SS4A012-611	2.28
			SS4B003-614	0.983 B
			SS808-077	5.8 B
			SS810-079	0.84 B
			SS822-710	0.685 B
			SS-DRUM01-3369	1.61
			SS-EU021-3328	0.794 B
			SS-EU022-3329	0.995 B
Silver	mg/Kg	0.27	SS403-040	0.34
Sodium	mg/Kg	331	SB404-121-4	479 E
			SS402-039	780 E
			SS-DRUM01-3369	2410 *

* Data qualifier included with concentration value

Table 4-51
Exposure Unit 2
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SB404-121-4	0.1 B
			SB-DRUM01-3370-1.0	0.24 E
			SB-EU021-3305-1.0	0.119 E
			SB-EU022-3306-2.0	0.124 E
			SB-EU023-3307-2.0	0.135 E
			SS401-037	0.07 B
			SS403-040	0.15
			SS404-041	0.09 B
			SS405-042	0.12
			SS406-043	0.1 B
			SS4A008-606	0.128
			SS4A010-608	0.145
			SS4A012-611	0.135
			SS4B003-614	0.151
			SS808-077	0.08 B
			SS809-078	0.06 B
			SS810-079	0.13
			SS822-710	0.153 B
			SS-DRUM01-3369	0.249 E
			SS-EU021-3328	0.138 E
			SS-EU022-3329	0.12 BE
Vanadium	mg/Kg	35.2	SB-DRUM01-3370-1.0	44.9 E*N
			SS-DRUM01-3369	52
Zinc	mg/Kg	266	SS4A012-611	475
PAHs				
Acenaphthene	μg/Kg	79	SS405-042	206 J
			SS4A003-601	2460 JD
			SS4A007-605	6270 JD
Acenaphthylene	μg/Kg	--	C5-AC-SO-F200-1	87
			SS-DRUM01-3369	38.2
Anthracene	μg/Kg	8	SS405-042	240 J
			SS4A003-601	1530 J
			SS4A007-605	6660
Benzo(a)anthracene	μg/Kg	284	SS405-042	1170
			SS4A003-601	17900 D
			SS4A007-605	26900 D
			SS4B001-612	887 J
Benzo(a)pyrene	μg/Kg	313	SS405-042	1830
			SS4A003-601	36000 D
			SS4A007-605	27500 D
			SS4B001-612	2560

* Data qualifier included with concentration value

Table 4-51
Exposure Unit 2
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzo(b)fluoranthene	μg/Kg	396	SS405-042	1740
			SS4A003-601	29700 E
			SS4A007-605	35000 D
			SS4B001-612	4480
			SS-DRUM01-3369	413
Benzo(g,h,i)perylene	μg/Kg	16	C5-AC-SO-F200-1	48
			SB-DRUM01-3370-1.0	60.3
			SS405-042	1030
			SS4A003-601	19400 E
			SS4A007-605	9820
			SS4B001-612	1460 J
			SS-DRUM01-3369	101
Benzo(k)fluoranthene	μg/Kg	322	SS405-042	1410
			SS4A003-601	25900 D
			SS4A007-605	6420
			SS4B001-612	1650
Chrysene	μg/Kg	378	SS405-042	1210
			SS4A003-601	19800 D
			SS4A007-605	26300 D
			SS4B001-612	2380
Dibenzo(a,h)anthracene	μg/Kg	2.7	SS4A003-601	7850 D
			SS4A007-605	4010 JD
Fluoranthene	μg/Kg	889	SS405-042	1920
			SS4A003-601	12700 D
			SS4A007-605	55800 D
Fluorene	μg/Kg	2.9	C5-AC-SO-F200-1	14
			SS405-042	103 J
			SS4A007-605	2570
Indeno(1,2,3-cd)pyrene	μg/Kg	8.8	SS404-041	135 J
			SS405-042	980
			SS4A003-601	17500
			SS4A007-605	8990
			SS4B001-612	1420 J
			SS-DRUM01-3369	332
Naphthalene	μg/Kg	--	C5-AC-SO-F200-1	100
			SS405-042	51.7 J
			SS4A007-605	893 J
Phenanthrene	μg/Kg	538	SS405-042	1320
			SS4A003-601	6040 D
			SS4A007-605	56300 D

* Data qualifier included with concentration value

Table 4-51
Exposure Unit 2
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Pyrene	μg/Kg	716	SS405-042	1900
			SS4A003-601	17300 D
			SS4A007-605	62900 D
			SS4B001-612	897 J
PCBs				
Aroclor-1242	μg/Kg	--	SB-DRUM01-3370-1.0	3.9 J
Aroclor-1254	μg/Kg	--	SB-DRUM01-3370-1.0	4.8
Aroclor-1260	μg/Kg	--	SB-DRUM01-3370-1.0	8.7
			SB-EU021-3305-1.0	1.4 J
			SS403-040	9.8 JP
			SS406-043	69.6
			SS-DRUM01-3369	6.3
			SS-EU021-3328	14.7 J
			SS-EU022-3329	3.4 J
Pesticides				
4,4'-DDD	μg/Kg	--	SB-DRUM01-3370-1.0	0.433 J
			SS-DRUM01-3369	2.01
			SS-EU022-3329	0.289 J
4,4'-DDE	μg/Kg	--	SB-DRUM01-3370-1.0	3.94
			SB-EU022-3306-2.0	0.472 J
			SB-EU023-3307-2.0	0.818 J
			SS-DRUM01-3369	3.78
			SS-EU021-3328	3.07 J
			SS-EU022-3329	2.58
4,4'-DDT	μg/Kg	--	SB-DRUM01-3370-1.0	4.28
			SB-EU022-3306-2.0	0.887 J
			SB-EU023-3307-2.0	0.571 J
			SS-DRUM01-3369	4.45
			SS-EU022-3329	2.06
Dieldrin	μg/Kg	--	SB-DRUM01-3370-1.0	0.397 J
			SS-DRUM01-3369	0.742 J
Radionuclides				
Actinium-227	pCi/g	0.08	SB4A013-2356	0.433
			SB8F001-2242-1.0	0.687
			SS4A014-2271	0.607
			SS8F001-2201	3.77
			SS8F003-2203	1.51
			SS8F005-2206	1.26

* Data qualifier included with concentration value

Table 4-51
Exposure Unit 2
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	15.1	SB404-121-1.4	43.7
			SB4A013-2356	57.1
			SB4A013-2357	69.9
			SB4A013-2358	46.7
			SB4A015-2355	49.9
			SB-DRUM01-3370-1.0	15.6
			SS402-039	92.4
			SS403-040	20.7
			SS404-041	46.5
			SS405-042	19
			SS406-043	31.8
			SS808-077	19.6
			SS-DRUM01-3369	19.9
Beta	pCi/g	28.9	SB404-121-1.4	29.8
			SB4A013-2356	36
			SB4A013-2357	35.2
			SB4A015-2355	32.8
			SS402-039	35
			SS404-041	31.8
			SS406-043	29.9
Cesium-137	pCi/g	0.343	SB4A013-2357	0.36
			SB-DRUM01-3370-1.0	0.467
			SS4A002-600	0.429
			SS4A003-601	0.56
			SS4A004-602	0.408
			SS4A007-605	0.817
			SS4A013-2270	0.385
			SS4A016-2275	0.402
			SS4A019-2425	0.533
			SS4B003-614	0.384
			SS8D001-2188	0.449
			SS8E002-2199	0.473 J
			SS8F001-2201	0.585
			SS8F005-2206	0.381
			SS-DRUM01-3369	0.669
			SS-EU021-3328	0.399

* Data qualifier included with concentration value

Table 4-51
Exposure Unit 2
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	SB404-121-1.4	7.72
			SB4A013-2356	5.06
			SB4A013-2357	5.15
			SB4A013-2358	4.35
			SB4A014-2272-1.0	8.05
			SB4A015-2355	7.42
			SB8F001-2242-1.0	14.3
			SB8F001-2243-1.5	11.3
			SB8F005-2245-1.0	6.14
			SB8F006-2246-1.5	1.23
			SB8F006-2247-1.5	1.31
			SB8F006-2251-1.0	1.99
			SB-DRUM01-3370-1.0	1.66
			SS401-037	1.39
			SS402-039	9.49
			SS403-040	1.58
			SS404-041	4.5
			SS405-042	1.62
			SS406-043	2.15
			SS4A001-598	1.64
			SS4A002-600	1.41
			SS4A003-601	5.35
			SS4A004-602	1.87
			SS4A005-603	1.83
			SS4A006-604	1.69
			SS4A007-605	3.27
			SS4A008-606	1.3
			SS4A010-608	1.34
			SS4A011-610	1.92
			SS4A013-2270	6
			SS4A014-2271	8.48
			SS4A015-2274	7.17
			SS4A019-2425	4.49
			SS4B001-612	3.09
			SS4B002-613	2.66
			SS4B003-614	2.14
			SS8D001-2188	3.78
			SS8E002-2199	1.98 J
			SS8F001-2201	61.5
			SS8F003-2203	45.9
			SS8F005-2206	18.9
			SS8F006-2207	7.32
			SS-DRUM01-3369	2.38
			SS-EU021-3328	1.31

* Data qualifier included with concentration value

Table 4-51
Exposure Unit 2
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-228	pCi/g	1.26	SB4A014-2272-1.0	1.35
			SS4A015-2274	1.32
			SS8F003-2203	1.27
			SS8F006-2207	3.18
Thorium-228	pCi/g	1.64	SB4A013-2357	2.09
			SB4A015-2355	1.8

* Data qualifier included with concentration value

Table 4-51
Exposure Unit 2
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SB404-121-1.4	8.12
			SB4A013-2356	7.84
			SB4A013-2357	9.7
			SB4A013-2358	4.95
			SB4A014-2272-1.0	5.64
			SB4A015-2355	6.31
			SB8F001-2242-1.0	3.37
			SB8F001-2243-1.5	2.29
			SB8F005-2245-1.0	6.85
			SB8F006-2246-1.5	1.91
			SB8F006-2251-1.0	1.81
			SB-DRUM01-3370-1.0	2.58
			SB-EU023-3307-2.0	1.91
			SS401-037	1.62
			SS402-039	10.8
			SS403-040	2.15
			SS404-041	9.54
			SS406-043	2.27
			SS4A001-598	2.67
			SS4A002-600	1.88
			SS4A003-601	3.62
			SS4A004-602	2.25
			SS4A005-603	2.18
			SS4A006-604	2.05
			SS4A007-605	6.29
			SS4A008-606	1.45
			SS4A010-608	1.43
			SS4A011-610	3.38
			SS4A012-611	2.72
			SS4A013-2270	11.2
			SS4A014-2271	6.3
			SS4A015-2274	5.36
			SS4A016-2275	1.66
			SS4A018-2277	1.53
			SS4A019-2425	2.46
			SS4B001-612	4.47
			SS4B002-613	3.7
			SS4B003-614	2.37
			SS8D001-2188	3.73
			SS8E002-2199	2.12 J
			SS8F001-2201	6.76
			SS8F003-2203	39.4
			SS8F005-2206	40.8
			SS8F006-2207	2.99

* Data qualifier included with concentration value

Table 4-51
Exposure Unit 2
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SS-DRUM01-3369	2.69
			SS-EU021-3328	1.73
			SS-EU022-3329	1.48
Total Uranium	μg/g	3.58	SB404-121-1.4	24.5
			SB4A013-2356	4.17
			SB4A013-2357	4.55
			SB4A013-2358	5.05
			SB4A014-2272-1.0	13.9
			SB4A015-2355	11.2
			SB8F006-2251-1.0	4.21
			SS402-039	33.1
			SS4A007-605	6.11
			SS4A011-610	3.6
			SS4A012-611	8.69
			SS4A013-2270	4.05
			SS4A014-2271	11.4
			SS4A015-2274	10.5
			SS4B001-612	8.97
			SS4B002-613	5.07
			SS8F001-2201	4.32
			SS8F003-2203	4.83
			SS8F005-2206	4.33
			SS8F006-2207	6.63
Uranium-234	pCi/g	1.66	SB404-121-1.4	7.15
			SB4A013-2356	3.65
			SB4A013-2357	2.3
			SB4A013-2358	3.65
			SB4A014-2272-1.0	4.7
			SB4A015-2355	6.57
			SS402-039	10.1
			SS4A011-610	1.76
			SS4A012-611	2.82
			SS4A013-2270	1.94
			SS4A014-2271	5.31
			SS4A015-2274	4.64
			SS4B001-612	3.63
			SS8F001-2201	2.79
			SS8F003-2203	1.86
			SS8F005-2206	1.74
			SS8F006-2207	2.4

* Data qualifier included with concentration value

Table 4-51
Exposure Unit 2
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/g	0.0847	SB404-121-1.4	0.124 J
			SS402-039	0.302 J
			SS4A014-2271	0.252
			SS4A015-2274	0.184
			SS8F003-2203	0.0978
			SS8F006-2207	0.167
Uranium-238	pCi/g	1.34	SB404-121-1.4	6.69
			SB4A013-2356	2.85
			SB4A013-2357	2.87
			SB4A013-2358	3.57
			SB4A014-2272-1.0	5.56
			SB4A015-2355	5.31
			SS402-039	10.1
			SS4A007-605	1.84
			SS4A009-607	1.72
			SS4A011-610	1.36
			SS4A012-611	3.02
			SS4A013-2270	1.87
			SS4A014-2271	4.56
			SS4A015-2274	4.63
			SS4B001-612	2.72
			SS8F001-2201	1.9
			SS8F003-2203	1.65
			SS8F005-2206	1.51
			SS8F006-2207	1.73
Semivolatile Organics				
bis(2-Ethylhexyl)phthalate	μg/Kg	5130	SS4A004-602	7900
Carbazole	μg/Kg	--	SS405-042	210 J
			SS4A007-605	6660 JD
Volatile Organics				
2-Butanone	μg/Kg	--	SB404-121-4	125
			SS401-037	6.7
			SS809-078	9
2-Hexanone	μg/Kg	--	SS405-042	4.4
Acetone	μg/Kg	--	SB404-121-4	406 E
			SS401-037	63.1 B
			SS404-041	23.9
			SS809-078	71.3
			SS-DRUM01-3369	8.6
			SS-EU022-3329	8.84

* Data qualifier included with concentration value

Table 4-51
Exposure Unit 2
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzene	µg/Kg	--	SB404-121-4	0.38 J
			SS401-037	2.6
			SS403-040	1.6
			SS404-041	1.5
			SS405-042	1.8
Carbon disulfide	µg/Kg	--	SB404-121-4	60
			SS402-039	9.1
			SS403-040	1.4 J
			SS404-041	4
Ethylbenzene	µg/Kg	--	SB404-121-4	18.3
Methylene chloride	µg/Kg	--	C5-AC-SO-F200-1	140 J
Toluene	µg/Kg	--	SB404-121-4	6.4
			SS401-037	3.9
			SS402-039	0.37 J
			SS403-040	1.1
			SS404-041	2.3
			SS405-042	1.6
Xylenes (total)	µg/Kg	--	SB404-121-4	0.51 J
			SS401-037	1.8 J
			SS404-041	0.99 J

* Data qualifier included with concentration value

Table 4-52
Exposure Unit 3
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Antimony	mg/Kg	0.94	SB-EU032-3309-1.0	0.974 BN
Arsenic	mg/Kg	8.73	SS-EU031-3330	11 *
Boron	mg/Kg	10.1	SB-EU032-3309-1.0	10.6
			TB403-2821-04.0-008	12.1
			TB403-2823-08.0-045	15
Chromium	mg/Kg	25.8	SS407-044	36.8 E
Lead	mg/Kg	37.6	SS409-046	70.2
Potassium	mg/Kg	2860	TB403-2821-04.0-008	2980 E*
			TB403-2823-08.0-045	3660 E*
Selenium	mg/Kg	0.37	SB-EU031-3308-2.0	0.422 B
			SB-EU032-3309-1.0	0.741 B
			SS407-044	1.3
			SS408-045	1.2
			SS409-046	0.73 B
			SS4B005-616	0.981 B
			SS-EU031-3330	0.409 B
			SS-EU032-3331	0.577 B
			TB403-2821-04.0-008	0.823 BN
			TB403-2823-08.0-045	0.666 BN
Silver	mg/Kg	0.27	SS-EU031-3330	0.291
Sodium	mg/Kg	331	TB403-2823-08.0-045	392
Thallium	mg/Kg	--	SB409-126-7.5	0.17
			SB-EU031-3308-2.0	0.121 E
			SB-EU032-3309-1.0	0.124 E
			SS407-044	0.11 B
			SS408-045	0.1 B
			SS409-046	0.13
			SS4B005-616	0.118
			SS-EU031-3330	0.099 BE
			SS-EU032-3331	0.125 E
			SS-EU033-3332	0.11 BE
			SS-EU034-3333	0.102 BE
			TB403-2821-04.0-008	0.199 E
			TB403-2822-07.0-024	0.095 J
			TB403-2823-08.0-045	0.143 E
Vanadium	mg/Kg	35.2	TB403-2823-08.0-045	39.7 *
PAHs				
Benzo(g,h,i)perylene	μg/Kg	16	SS408-045	216 J
Indeno(1,2,3-cd)pyrene	μg/Kg	8.8	SS408-045	154 J
PCBs				
Aroclor-1254	μg/Kg	--	TB403-2821-04.0-008	2.9 J

* Data qualifier included with concentration value

Table 4-52
Exposure Unit 3
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aroclor-1260	µg/Kg	--	SB-EU032-3309-1.0	5.4
			SS409-046	16
			TB403-2821-04.0-008	2.7 JP
Pesticides				
4,4'-DDD	µg/Kg	--	TB403-2821-04.0-008	0.52 JP
			TB403-2822-07.0-024	0.42 JP
4,4'-DDE	µg/Kg	--	SB-EU032-3309-1.0	1.1 J
			SS-EU031-3330	2.94
			TB403-2821-04.0-008	0.29 J
			TB403-2822-07.0-024	0.23 J
4,4'-DDT	µg/Kg	--	SB-EU031-3308-2.0	0.725 J
			SB-EU032-3309-1.0	0.893 J
			SS-EU031-3330	2.58
Dieldrin	µg/Kg	--	TB403-2821-04.0-008	0.33 J
			TB403-2822-07.0-024	0.32 J
Endosulfan sulfate	µg/Kg	--	TB403-2821-04.0-008	0.52 J
			TB403-2822-07.0-024	0.33 J
Endrin aldehyde	µg/Kg	--	TB403-2821-04.0-008	0.39 J
Endrin ketone	µg/Kg	--	TB403-2821-04.0-008	0.43 JP
			TB403-2822-07.0-024	0.31 JP
Methoxychlor	µg/Kg	--	TB403-2821-04.0-008	2.6 J
			TB403-2822-07.0-024	1.8 J
Radionuclides				
Actinium-227	pCi/g	0.08	SS4B009-2280	2.26
			SS4B021-2295	0.938
			TB411-2837-01.5-052	0.455
Alpha	pCi/g	15.1	SB4B014-2353	20
			SS-EU031-3330	15.7
Cesium-137	pCi/g	0.343	SS4B006-617	0.359
			SS4B008-2279	0.375

* Data qualifier included with concentration value

Table 4-52
Exposure Unit 3
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	SB4B009-2281-2.0	2.28
			SB4B014-2353	4.25
			SB4B021-2296-2.0	1.37
			SS407-044	1.98
			SS409-046	1.28
			SS4B005-616	1.41
			SS4B006-617	1.72
			SS4B007-2278	1.4
			SS4B008-2279	1.71
			SS4B009-2280	37.5
			SS4B010-2282	7.31
			SS4B014-2288	15.2
			SS4B015-2289	2.05
			SS4B016-2290	2.36
			SS4B017-2291	7.14
			SS4B019-2293	1.44
			SS4B021-2295	17.6
			TB403-2821-04.0-008	1.24
			TB411-2836-01.5-034	2.12
			TB411-2837-01.5-052	7.68
Thorium-228	pCi/g	1.64	SB4B014-2353	1.8
			SB4B014-2354	2.34
			SB-EU032-3309-1.0	1.66

* Data qualifier included with concentration value

Table 4-52
Exposure Unit 3
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SB4B014-2353	3.09
			SB-EU032-3309-1.0	2.03
			SS407-044	1.54
			SS4B005-616	1.5
			SS4B006-617	1.94
			SS4B007-2278	2.37
			SS4B008-2279	2.14
			SS4B009-2280	8.46
			SS4B010-2282	12.1
			SS4B013-2285	2.22
			SS4B014-2288	2.96
			SS4B015-2289	2.56
			SS4B016-2290	3.32
			SS4B017-2291	1.55
			SS4B019-2293	1.65
			SS4B021-2295	3.76
			SS-EU031-3330	1.41
			SS-EU032-3331	1.58
			TB403-2821-04.0-008	1.52
			TB403-2822-07.0-024	1.41 J
			TB411-2836-01.5-034	2.02
			TB411-2837-01.5-052	8.74
			TB412-2839-05.0-034	1.65
Thorium-232	pCi/g	1.24	SB4B011-2283-2.0	1.38
			SS4B016-2290	1.33
			SS-EU032-3331	1.27
Total Uranium	μg/g	3.58	SB4B009-2281-2.0	4.39
			SB4B014-2353	3.82
			SS407-044	3.69
			SS4B009-2280	34.3
			SS4B010-2282	6.6
			SS4B014-2288	4.28
			SS4B015-2289	3.88
			SS4B016-2290	7.76
			SS4B021-2295	3.91
			TB403-2821-04.0-008	3.67
			TB411-2836-01.5-034	4.82
			TB411-2837-01.5-052	6.1

* Data qualifier included with concentration value

Table 4-52
Exposure Unit 3
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.66	SB4B009-2281-2.0	1.68
			SS4B009-2280	11.5
			SS4B010-2282	3.03
			SS4B015-2289	2.09
			SS4B016-2290	3.39
			SS4B021-2295	2.08
			TB403-2821-04.0-008	1.91
			TB411-2836-01.5-034	1.7
			TB411-2837-01.5-052	3.22
Uranium-235	pCi/g	0.0847	SB-EU032-3309-1.0	0.164
			SS408-045	0.163 J
			SS4B009-2280	0.309
			SS4B010-2282	0.158
			SS4B014-2288	0.15
			SS4B016-2290	0.229
			SS4B019-2293	0.119
			SS-EU032-3331	0.167
			TB403-2822-07.0-024	0.191 J
			TB411-2836-01.5-034	0.133
			TB413-2843-03.0-015	0.117
Uranium-238	pCi/g	1.34	SB4B009-2281-2.0	1.86
			SB4B014-2353	2.25
			SS407-044	1.62
			SS4B009-2280	11
			SS4B010-2282	3.46
			SS4B012-2284	1.47
			SS4B014-2288	1.69
			SS4B015-2289	1.91
			SS4B016-2290	3
			SS4B021-2295	1.89
			TB403-2821-04.0-008	1.57
			TB411-2836-01.5-034	1.57
			TB411-2837-01.5-052	2.97
Volatile Organics				
1,1-Dichloroethene	μg/Kg	--	TB403-2822-07.0-024	0.95 J
Acetone	μg/Kg	--	SB409-126-7.5	3 J
			TB403-2822-07.0-024	11.5
			TB403-2823-08.0-045	9.6
Toluene	μg/Kg	--	TB403-2821-04.0-008	0.4 J
			TB403-2822-07.0-024	1.1
			TB403-2823-08.0-045	1.1

* Data qualifier included with concentration value

Table 4-53
Exposure Unit 4
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	19100	SB-DRUM06-3396-1.0	19600
			SS418-055	21800
			SS-DRUM05-3381	20100 J
			TB406-2827-02.0-027	57400
			TB406-2828-01.0-010	22700
			TB408-2829-02.7-005	25400
Antimony	mg/Kg	0.94	SB-DRUM04-3379-1.0	1.33 N
			SB-DRUM05-3382-1.0	1.05 BN
			SB-EU042-3311-1.0	1.04 BN
			SS-DRUM02-3372	3.57 N
			SS-DRUM04-3378	1.54 N
			SS-DRUM05-3381	2 J
Arsenic	mg/Kg	8.73	SS-DRUM02-3372	17.2 N
			SS-DRUM04-3378	13.8 N
Barium	mg/Kg	263	SS-DRUM04-3378	2670 N*
			TB406-2827-02.0-027	325
			TB408-2831-04.7-054	264
Beryllium	mg/Kg	1	SB-DRUM06-3396-1.0	1.31
			TB406-2827-02.0-027	2.2
			TB408-2829-02.7-005	1.29
Boron	mg/Kg	10.1	SB-DRUM05-3382-1.0	24.9 *N
			SB-DRUM06-3396-1.0	25.5 N
			SB-DRUM07-3399-1.0	10.5 N
			SS410-047	15.5
			SS415-052	10.5
			SS418-055	97.1
			SS419-056	17.1 *
			SS-DRUM02-3372	280
			SS-DRUM04-3378	12
			SS-DRUM05-3381	313 J
			SS-DRUM06-3395	23.4 N
			SS-DRUM07-3398	23.5 N
			SS-MW422-3608	11.8 N
			SS-MW423-3611	12.6 N
			TB406-2826-07.0-043	19.3
			TB406-2827-02.0-027	477
			TB406-2828-01.0-010	240
			TB408-2829-02.7-005	19
			TB408-2830-03.9-021	16.1
			TB408-2831-04.7-054	15.2

* Data qualifier included with concentration value

Table 4-53
Exposure Unit 4
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cadmium	mg/Kg	0.53	SB-EU042-3311-1.0	0.613
			SS414-051	0.58 B
			SS416-053	0.61
			SS419-056	0.67
			SS4C001-618	0.534 B
			SS-DRUM02-3372	0.624 B
			SS-DRUM05-3381	0.559 J
			TB406-2827-02.0-027	0.932 E
Calcium	mg/Kg	58900	SB417-138-3	69800
			SS412-049	93600 E
			TB408-2830-03.9-021	76400 E
			TB408-2831-04.7-054	62700 E
Chromium	mg/Kg	25.8	SS417-054	196
			SS418-055	26.7 *
			SS-DRUM02-3372	37.9 *
			SS-DRUM04-3378	88.7 *
			SS-DRUM05-3381	49.4 J
			TB406-2827-02.0-027	37
			TB408-2829-02.7-005	30.9
Copper	mg/Kg	49.3	SB-DRUM04-3379-1.0	55 *N
			SB-DRUM06-3396-1.0	91.6
			SS410-047	51
			SS413-050	75.4
			SS418-055	50.1
			SS4D007-621	50.3
			SS-DRUM02-3372	159 *N
			SS-DRUM04-3378	76.2 *N
			SS-DRUM05-3381	590 J
			SS-DRUM06-3395	270
			TB406-2827-02.0-027	87.1 N
Iron	mg/Kg	36400	SB-DRUM04-3379-1.0	36700 *
			SS-DRUM02-3372	105000 *
			SS-DRUM04-3378	50400 *
			SS-DRUM05-3381	154000 J
			TB408-2829-02.7-005	37100

* Data qualifier included with concentration value

Table 4-53
Exposure Unit 4
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Lead	mg/Kg	37.6	SB-EU042-3311-1.0	598 *
			SS413-050	686
			SS414-051	53.1
			SS415-052	41.4
			SS417-054	48.8
			SS418-055	38.1
			SS4C001-618	140
			SS4D005-619	54.7
			SS4D007-621	39.2
			SS-DRUM02-3372	391 *
			SS-DRUM04-3378	149 *
			SS-DRUM07-3398	64.8
			SS-MW423-3611	53.7 *
Magnesium	mg/Kg	14800	SB417-138-3	14900
			SS412-049	17900
Mercury	mg/Kg	0.27	TB406-2827-02.0-027	0.284 *
Nickel	mg/Kg	38	SB-DRUM05-3382-1.0	44.7
			SS-DRUM02-3372	76.1 *
			SS-DRUM05-3381	65.1
			TB406-2827-02.0-027	68.2 E
			TB408-2829-02.7-005	39.2 E
Potassium	mg/Kg	2860	SB-DRUM05-3382-1.0	2880 E*
			SS418-055	5850
			SS-DRUM05-3381	6330 J
			TB406-2827-02.0-027	9290 E
			TB406-2828-01.0-010	4740 E
			TB408-2829-02.7-005	3230 E
			TB408-2830-03.9-021	3580 E
			TB408-2831-04.7-054	3430 E

* Data qualifier included with concentration value

Table 4-53
Exposure Unit 4
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SB415-136-9.2	0.75 B
			SB417-138-3	1
			SB417-138-8.9	0.66 B
			SB-DRUM04-3379-1.0	0.676 B
			SB-DRUM05-3382-1.0	0.815 B
			SB-DRUM06-3396-1.0	0.665 B
			SB-DRUM07-3399-1.0	0.71 B
			SB-EU042-3311-1.0	0.59 B
			SS410-047	1
			SS411-048	1.3
			SS412-049	0.53 B
			SS413-050	1.1
			SS415-052	0.97 B
			SS416-053	0.65 B
			SS417-054	1.2
			SS418-055	0.99 B
			SS419-056	0.73 BN
			SS4C001-618	0.581 B
			SS4D005-619	1.08 B
			SS4D007-621	1.34
			SS4D008-623	1.14 B
			SS-DRUM02-3372	0.65 B
			SS-DRUM04-3378	0.626 B
			SS-DRUM05-3381	1.22
			SS-DRUM06-3395	0.71 B
			SS-DRUM07-3398	0.954 B
			SS-MW422-3608	0.82 B
			SS-MW423-3611	0.456 B
			SS-MW424-3620	1.99 N
			TB406-2826-07.0-043	0.524 B
			TB406-2827-02.0-027	1.16
			TB406-2828-01.0-010	0.562 B
			TB408-2829-02.7-005	0.711 B
			TB408-2830-03.9-021	0.904 B
			TB408-2831-04.7-054	0.597 B
Silver	mg/Kg	0.27	SS4C001-618	0.375 B
			SS4D005-619	0.293 E
			SS-DRUM02-3372	0.273
Sodium	mg/Kg	331	SS418-055	766 E
			SS-DRUM02-3372	4520 *
			TB406-2827-02.0-027	54800
			TB406-2828-01.0-010	6970

* Data qualifier included with concentration value

Table 4-53
Exposure Unit 4
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SB415-136-9.2	0.12 B
			SB417-138-3	0.13
			SB417-138-8.9	0.21
			SB-DRUM04-3379-1.0	0.118 E
			SB-DRUM05-3382-1.0	0.148 E
			SB-DRUM06-3396-1.0	0.156
			SB-DRUM07-3399-1.0	0.175
			SB-EU041-3310-1.0	0.091 BE
			SB-EU042-3311-1.0	0.147 E
			SS410-047	0.14
			SS411-048	0.11 B
			SS412-049	0.08 B
			SS413-050	0.16
			SS414-051	0.13 B
			SS415-052	0.15
			SS416-053	0.089 B
			SS417-054	0.2
			SS418-055	0.24
			SS419-056	0.11 B
			SS4D005-619	0.202
			SS4D007-621	0.094 B
			SS4D008-623	0.108 B
			SS-DRUM02-3372	0.115 BE
			SS-DRUM04-3378	0.11 BE
			SS-DRUM05-3381	0.163 E
			SS-DRUM06-3395	0.151
			SS-DRUM07-3398	0.242
			SS-MW422-3608	0.175 E
			SS-MW423-3611	0.19 E
			SS-MW424-3620	0.116
			TB406-2826-07.0-043	0.2 E
			TB406-2827-02.0-027	0.36 E
			TB406-2828-01.0-010	0.262 E
			TB408-2829-02.7-005	0.212 E
			TB408-2830-03.9-021	0.199 E
			TB408-2831-04.7-054	0.167 E
Vanadium	mg/Kg	35.2	SS418-055	41.2
			SS-DRUM05-3381	38.2 J
			TB406-2827-02.0-027	49.9 N
			TB406-2828-01.0-010	37.3 N
			TB408-2829-02.7-005	47.6 N
PAHs				

* Data qualifier included with concentration value

Table 4-53
Exposure Unit 4
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Acenaphthylene	µg/Kg	--	SB-DRUM04-3379-1.0	93.9
			SB-DRUM07-3399-1.0	4.33 J
			SS-DRUM04-3378	51.5
			SS-DRUM07-3398	14.9 J
			SS-MW423-3611	151 J
Anthracene	µg/Kg	8	SB-DRUM04-3379-1.0	21.3 J
			SS-DRUM04-3378	78.5
			TB408-2830-03.9-021	420 J
Benzo(a)anthracene	µg/Kg	284	SS417-054	446
			SS4D007-621	623
			SS-DRUM04-3378	578
Benzo(a)pyrene	µg/Kg	313	SB-DRUM04-3379-1.0	358
			SS417-054	508
			SS4D007-621	670
			SS-DRUM04-3378	1290
			TB408-2830-03.9-021	2400
Benzo(b)fluoranthene	µg/Kg	396	SB-DRUM04-3379-1.0	1080
			SS417-054	647
			SS4D007-621	949
			SS-DRUM04-3378	2980
Benzo(g,h,i)perylene	µg/Kg	16	SB-DRUM04-3379-1.0	233
			SB-DRUM06-3396-1.0	29.1 P
			SS412-049	2880 J
			SS413-050	49.3 J
			SS417-054	231 J
			SS4D007-621	376
			SS-DRUM04-3378	792
			SS-DRUM07-3398	62.5 P
Benzo(k)fluoranthene	µg/Kg	322	SS417-054	595
			SS4D007-621	908
			SS-DRUM04-3378	601
			TB408-2830-03.9-021	1240
Chrysene	µg/Kg	378	SS417-054	562
			SS4D007-621	992
			SS-DRUM04-3378	1090
			TB408-2830-03.9-021	931
Fluoranthene	µg/Kg	889	TB408-2830-03.9-021	2760
Fluorene	µg/Kg	2.9	SB-DRUM06-3396-1.0	4.96 J
			SS-DRUM04-3378	11.6 J
			SS-DRUM07-3398	19.8 J
			TB408-2830-03.9-021	178 JB

* Data qualifier included with concentration value

Table 4-53
Exposure Unit 4
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Indeno(1,2,3-cd)pyrene	µg/Kg	8.8	SB-DRUM04-3379-1.0	403
			SS413-050	38.6 J
			SS417-054	240 J
			SS4D007-621	387
			SS-DRUM02-3372	39.5
			SS-DRUM04-3378	875
			SS-DRUM05-3381	38.3
			SS-DRUM07-3398	306
Naphthalene	µg/Kg	--	SB-DRUM06-3396-1.0	5.16 J
			SB-DRUM07-3399-1.0	37.3
			SS-DRUM06-3395	7 J
			SS-DRUM07-3398	76.7
Phenanthrene	µg/Kg	538	TB408-2830-03.9-021	2290
Pyrene	µg/Kg	716	SS-DRUM04-3378	795
			TB408-2830-03.9-021	2130
PCBs				
Aroclor-1254	µg/Kg	--	SB-DRUM05-3382-1.0	19.4
			SB-DRUM06-3396-1.0	7.9
			SB-EU042-3311-1.0	668
			SS4C001-618	714 JP
			SS4D007-621	226
			SS4D008-623	100
			SS4F001-633	28.5 J
			SS4F002-634	28 J
			SS4F004-636	32.7 JP
			SS-DRUM06-3395	20.9
			TB408-2829-02.7-005	13.2

* Data qualifier included with concentration value

Table 4-53
Exposure Unit 4
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aroclor-1260	µg/Kg	--	SB-DRUM04-3379-1.0	1650
			SB-DRUM05-3382-1.0	165
			SB-DRUM06-3396-1.0	62.5
			SB-DRUM07-3399-1.0	25100
			SB-EU041-3310-1.0	125
			SB-EU042-3311-1.0	4660
			SS313-687	4 J
			SS413-050	2030
			SS414-051	154
			SS415-052	110
			SS417-054	1120
			SS418-055	392
			SS4C001-618	14500
			SS4D005-619	320
			SS4D007-621	511
			SS4D008-623	361
			SS4D010-626	2580
			SS4D013-629	162
			SS4D015-631	354
			SS4F001-633	65.3
			SS4F002-634	94.4
			SS4F004-636	19.4 JP
			SS-DRUM02-3372	249
			SS-DRUM04-3378	5740
			SS-DRUM05-3381	309
			SS-DRUM06-3395	120
			SS-DRUM07-3398	70200
			SS-MW422-3608	1230 B
			SS-MW423-3611	7.1 B
			SS-MW424-3620	6
			TB404-2856-02.3-028	5.7
			TB406-2827-02.0-027	18.8 J
			TB406-2828-01.0-010	48.8
			TB408-2829-02.7-005	17.9
Pesticides				

* Data qualifier included with concentration value

Table 4-53
Exposure Unit 4
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
4,4'-DDE	μg/Kg	--	SB-DRUM05-3382-1.0	3.13
			SB-DRUM06-3396-1.0	5.52
			SS313-687	1.1 JP
			SS4C001-618	6 P
			SS4D008-623	3.9
			SS4D013-629	2.7 P
			SS4D015-631	3.4 P
			SS4F004-636	3 P
			SS-DRUM02-3372	2.58
			SS-DRUM05-3381	4.33
			SS-DRUM06-3395	10.6
			TB404-2856-02.3-028	0.37 JP
			TB406-2828-01.0-010	0.6 J
			TB408-2830-03.9-021	2.7 J
			TB408-2831-04.7-054	0.19 JP
4,4'-DDT	μg/Kg	--	SB-DRUM06-3396-1.0	9.02
			SS4F004-636	7.3 P
			SS-DRUM06-3395	13.1
			TB404-2856-02.3-028	1.2 J
Endosulfan sulfate	μg/Kg	--	SS4F004-636	0.99 J
			TB404-2825-06.2-021	0.4 JP
			TB408-2831-04.7-054	0.44 JP
Radionuclides				
Alpha	pCi/g	15.1	SB417-138-8.9	25.1
			SB4C002-2352	16
			SB-DRUM07-3399-1.0	16.4
			SB-EU042-3311-1.0	16.2
			SS411-048	23.4
			SS412-049	15.6
			SS413-050	21
			SS415-052	19.7
			SS417-054	20.2
			SS419-056	19.8
			SS4C003-2299	18.9
			SS-DRUM02-3372	26.1
Beta	pCi/g	28.9	SB417-138-8.9	30.3
			SS411-048	35.4

* Data qualifier included with concentration value

Table 4-53
Exposure Unit 4
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/g	0.343	SB-DRUM06-3396-1.0	0.375
			SS313-687	0.456
			SS414-051	1.92 J
			SS417-054	0.351 J
			SS418-055	0.493 J
			SS422-688	1.29
			SS4C001-618	0.379
			SS4C006-2303	0.383
			SS4D005-619	0.403
			SS4D006-620	0.379
			SS4D008-623	0.413
			SS4D009-625	0.38
			SS4D010-626	0.431
			SS4D011-627	0.585
			SS4D012-628	0.35
			SS4D013-629	0.439
			SS4D015-631	0.431
			SS4D019-2308	0.347
			SS4D020-2309	0.396
			SS4F001-633	0.374
			SS4F002-634	0.389
			SS-DRUM02-3372	1.02
			SS-DRUM04-3378	0.377
			SS-DRUM05-3381	0.522 J
			SS-DRUM06-3395	0.506
			SS-DRUM07-3398	0.42
			TB414-2846-01.0-043	0.53

* Data qualifier included with concentration value

Table 4-53
Exposure Unit 4
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	SB4C002-2351	2.67
			SB4C002-2352	2.29
			SB-DRUM07-3399-1.0	1.36
			SB-EU042-3311-1.0	1.34
			SS313-687	1.52
			SS410-047	1.27
			SS413-050	2.01
			SS414-051	1.64
			SS415-052	1.67
			SS417-054	4.45
			SS418-055	1.35
			SS422-688	2.33
			SS4C002-2298	5.83
			SS4C003-2299	1.78
			SS4C004-2300	3.72
			SS4C006-2303	1.33
			SS4D005-619	1.73
			SS4D006-620	1.21
			SS4D008-623	1.48
			SS4D010-626	1.95
			SS4D011-627	2.34
			SS4D012-628	2.69
			SS4D013-629	1.86
			SS4D014-630	1.51
			SS4D015-631	2.32
			SS4D017-2306	4.66
			SS4D019-2308	2.95
			SS4D020-2309	1.43
			SS4F004-636	1.26
			SS-DRUM02-3372	2.54
			SS-DRUM04-3378	1.41
			SS-DRUM07-3398	1.78
			TB406-2827-02.0-027	3.38
			TB408-2830-03.9-021	1.58
Thorium-228	pCi/g	1.64	SS313-687	1.72
			SS4C003-2299	1.7
			SS4D005-619	1.68
			SS-MW424-3620	1.96
			TB408-2830-03.9-021	1.68

* Data qualifier included with concentration value

Table 4-53
Exposure Unit 4
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SB4C002-2351	1.65
			SB4C002-2352	1.72
			SB-DRUM04-3379-1.0	1.4
			SB-DRUM05-3382-1.0	2.64
			SB-DRUM06-3396-1.0	2.07
			SB-DRUM07-3399-1.0	2.86
			SB-EU042-3311-1.0	2.13
			SS313-687	1.87
			SS410-047	1.5 J
			SS412-049	2.05
			SS413-050	2.83
			SS414-051	2.09 J
			SS415-052	2.1 J
			SS417-054	2.63 J
			SS418-055	1.46 J
			SS419-056	1.42 J
			SS422-688	1.79
			SS4C002-2298	4.21
			SS4C003-2299	1.62
			SS4C004-2300	3.52
			SS4C005-2302	2.55
			SS4C006-2303	1.66
			SS4D005-619	3.25
			SS4D006-620	2.34
			SS4D009-625	2.04
			SS4D010-626	2
			SS4D011-627	2.67
			SS4D012-628	1.87
			SS4D013-629	2.4
			SS4D014-630	2.11
			SS4D015-631	2.97
			SS4D017-2306	3.47
			SS4D019-2308	2.4
			SS4D020-2309	2.24
			SS4F009-2315	1.77
			SS4G001-2316	1.92
			SS-DRUM02-3372	5.21
			SS-DRUM04-3378	2.26
			SS-DRUM05-3381	1.86 J
			SS-DRUM06-3395	1.73
			SS-DRUM07-3398	2.59
			SS-MW422-3608	1.8 J
			SS-MW423-3611	1.92
			TB404-2856-02.3-028	1.44

* Data qualifier included with concentration value

Table 4-53
Exposure Unit 4
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	TB406-2827-02.0-027	2.07
			TB414-2846-01.0-043	1.51
Thorium-232	pCi/g	1.24	SB-DRUM05-3382-1.0	1.36
			SB-EU042-3311-1.0	1.38
			SS417-054	1.25 J
			SS4D017-2306	1.32
			SS-DRUM06-3395	1.3
			SS-MW424-3620	1.33
Total Uranium	μg/g	3.58	SS4C002-2298	7.43
			SS4C003-2299	5.19
			SS4C004-2300	4.15
			SS4D011-627	3.68
			SS4D017-2306	3.97
			SS-DRUM07-3398	4.18
			TB406-2827-02.0-027	5.75
			TB414-2844-05.5-004	3.78
			TB414-2845-08.0-040	5.94
			TB414-2846-01.0-043	4.53
Uranium-234	pCi/g	1.66	SS4C002-2298	2.46
			SS4C003-2299	2.92
			SS4D012-628	1.69
			SS4D017-2306	1.85
			TB406-2827-02.0-027	1.95
			TB414-2844-05.5-004	15.2
			TB414-2845-08.0-040	1.99
			TB414-2846-01.0-043	1.91
Uranium-235	pCi/g	0.0847	SS-MW424-3620	0.221
			TB406-2828-01.0-010	0.115 J
			TB414-2844-05.5-004	0.64
			TB414-2846-01.0-043	0.155
Uranium-238	pCi/g	1.34	SB4C002-2351	1.66
			SS313-687	1.4
			SS422-688	1.7
			SS4C002-2298	2.47
			SS4C003-2299	2.2
			SS4C004-2300	1.74
			SS4D011-627	1.37
			SS4D017-2306	1.35
			TB406-2827-02.0-027	1.56
			TB414-2845-08.0-040	2.73
			TB414-2846-01.0-043	1.58
Semivolatile Organics				

* Data qualifier included with concentration value

Table 4-53
Exposure Unit 4
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
2-Methylnaphthalene	µg/Kg	--	SB-DRUM07-3399-1.0	36.8 J
			SB-EU042-3311-1.0	32.6 J
			SS-DRUM07-3398	66.7
Volatile Organics				
1,1-Dichloroethene	µg/Kg	--	SB-DRUM06-3396-1.0	0.539 J
			SS-DRUM07-3398	1.12 J
			TB406-2828-01.0-010	0.81
2-Butanone	µg/Kg	--	TB406-2827-02.0-027	4.4
			TB406-2828-01.0-010	13.5
Acetone	µg/Kg	--	SB-DRUM04-3379-1.0	4.12 J
			SB-EU042-3311-1.0	9.07
			SS-DRUM06-3395	2.46 J
			SS-DRUM07-3398	6.56
			SS-MW422-3608	6.92
			SS-MW424-3620	4.21 J
			TB406-2826-07.0-043	3.6
			TB406-2827-02.0-027	30.7
			TB406-2828-01.0-010	95.1
			TB408-2829-02.7-005	6.2
			TB408-2830-03.9-021	5.7
			TB408-2831-04.7-054	7.4
cis-1,2-Dichloroethene	µg/Kg	--	SB415-136-9.2	25.8
			SB-DRUM05-3382-1.0	121 J
			SS415-052	6.9
			TB406-2827-02.0-027	0.46 J
			TB406-2828-01.0-010	0.4 J
Methylene chloride	µg/Kg	--	TB406-2826-07.0-043	0.82 J
			TB406-2827-02.0-027	1 J
			TB408-2829-02.7-005	1.4 J
			TB408-2830-03.9-021	1.7 J
			TB408-2831-04.7-054	1.1 J
Tetrachloroethene	µg/Kg	--	SB415-136-9.2	2200 D
			SB-DRUM05-3382-1.0	1630
			SS415-052	39.1
			SS418-055	10.8
			SS-DRUM02-3372	10
			SS-DRUM05-3381	1410
			SS-MW424-3620	3.92

* Data qualifier included with concentration value

Table 4-53
Exposure Unit 4
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Toluene	µg/Kg	--	SB415-136-9.2	1.1 J
			SS-MW424-3620	0.46 J
			TB406-2826-07.0-043	0.27 J
			TB406-2827-02.0-027	0.32 J
			TB406-2828-01.0-010	0.39 J
			TB408-2829-02.7-005	0.52 J
			TB408-2830-03.9-021	0.54 J
			TB408-2831-04.7-054	0.28 J
trans-1,2-Dichloroethene	µg/Kg	--	SB415-136-9.2	0.82 J
			SS415-052	0.56 J
			TB406-2827-02.0-027	0.94
Trichloroethene	µg/Kg	--	SB415-136-9.2	23.6
			SB-DRUM05-3382-1.0	75.6 J
			SS415-052	11.4
			SS-DRUM05-3381	71.4 J
			SS-MW424-3620	0.571 J
			TB406-2827-02.0-027	7.9 B
			TB406-2828-01.0-010	4.6

* Data qualifier included with concentration value

Table 4-54
Exposure Unit 5
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*	
Metals					
Aluminum	mg/Kg	19100	SS-EU051-3334	32400	E*
Antimony	mg/Kg	0.94	SB-EU051-3312-1.0	1.04	BN
Barium	mg/Kg	263	SS-EU051-3334	441	*
Beryllium	mg/Kg	1	SB-EU051-3312-1.0	1.3	
			SS-EU051-3334	7.7	E*
Boron	mg/Kg	10.1	SB-EU051-3312-1.0	17.6	*N
			SS-EU051-3334	88.2	E*N
Cadmium	mg/Kg	0.53	SB423-719-10.0	0.691	
			SS421-058	0.91	
			SS605-697	0.751	
Calcium	mg/Kg	58900	SB-EU051-3312-1.0	60400	
			SS-EU051-3334	179000	*
Chromium	mg/Kg	25.8	SS-EU051-3334	30.1	*N
Copper	mg/Kg	49.3	SS-EU051-3334	58.1	E*N
Potassium	mg/Kg	2860	SS-EU051-3334	4050	*
Selenium	mg/Kg	0.37	SB420-142-7	1.2	*N
			SB423-719-10.0	0.709	B
			SB-EU051-3312-1.0	0.492	B
			SB-EU052-3313-1.5	0.779	B
			SS421-058	0.62	BN
			SS423-689	0.944	B
			SS601-065	0.56	B
			SS605-697	0.701	B
			SS-EU051-3334	2.35	
Sodium	mg/Kg	331	SS-EU051-3334	1210	E*
Thallium	mg/Kg	--	SB-EU051-3312-1.0	0.078	BE
			SB-EU052-3313-1.5	0.256	E
			SS420-057	0.1	B
			SS421-058	0.14	
			SS601-065	0.15	
			SS811-080	0.13	
			SS-EU051-3334	0.105	BE
PAHs					
Acenaphthylene	μg/Kg	--	SS-EU051-3334	96.2	
Benzo(b)fluoranthene	μg/Kg	396	SS-EU051-3334	561	
Benzo(g,h,i)perylene	μg/Kg	16	SS-EU051-3334	176	
Indeno(1,2,3-cd)pyrene	μg/Kg	8.8	SS-EU051-3334	283	
PCBs					
Aroclor-1254	μg/Kg	--	SS4F003-635	7.8	JP
			SS811-080	12	P
			SS-EU051-3334	4.2	

* Data qualifier included with concentration value

Table 4-54
Exposure Unit 5
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aroclor-1260	µg/Kg	--	SB-EU051-3312-1.0	3 J
			SS4F003-635	24.8 J
			SS811-080	17.6
			SS-EU051-3334	5.3
Pesticides				
4,4'-DDE	µg/Kg	--	SS4F003-635	2.6 P
4,4'-DDT	µg/Kg	--	SB-EU052-3313-1.5	0.885 J
			SS4F003-635	5.4
Radionuclides				
Actinium-227	pCi/g	0.08	SS4G002-2365	1.33
			SS6A001-2317	14.2
Alpha	pCi/g	15.1	SB4G002-2366	18.7
			SB4G002-2367	15.5
			SB6A001-2362	416
			SB6A001-2363	404
			SD737-381	16
			SS420-057	15.6
			SS421-058	21
Beta	pCi/g	28.9	SB6A001-2362	191
			SB6A001-2363	221
Cesium-137	pCi/g	0.343	SD737-381	0.607 J
			SS4F003-635	0.395
			SS4F005-2311	0.364
			SS4F007-2313	0.359
			SS601-065	0.406 J
			SS6A003-2320	0.375
			SS811-080	0.377 J
			SS8G005-2347	0.672
Radium-226	pCi/g	1.2	SB6A001-2318-2.0	6.33
			SB6A001-2362	79.9
			SB6A001-2363	167
			SB6A006-2324-2.0	1.27
			SD737-381	1.3
			SS420-057	2.35
			SS423-689	1.92
			SS4F003-635	1.23
			SS4G002-2365	43.9
			SS6A001-2317	285
			SS6A003-2320	2.24
			SS6A006-2325	1.34
			SS6A010-2364	3.39
			SS-EU051-3334	3.56

* Data qualifier included with concentration value

Table 4-54
Exposure Unit 5
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-228	pCi/g	1.64	SB4G002-2366	1.83
			SB4G002-2367	1.75
			SB6A001-2362	1.77
			SS605-697	1.69
Thorium-230	pCi/g	1.39	SB6A001-2318-2.0	1.63
			SB6A001-2362	6.12
			SB6A001-2363	6.98
			SS4F003-635	1.59
			SS4F005-2311	1.7
			SS4F006-2312	1.89
			SS4F008-2314	1.46
			SS4G002-2365	8.51
			SS6A001-2317	8.73
			SS6A010-2364	2.69 J
			SS8G005-2347	1.44
			SS-EU051-3334	2.48
			TB410-2834-04.0-055	1.8
Total Uranium	μg/g	3.58	SB6A001-2363	4.46
			SS4G002-2365	4.09
			SS-EU051-3334	5
Uranium-234	pCi/g	1.66	SB6A001-2363	4.25
			SS-EU051-3334	2.37
Uranium-235	pCi/g	0.0847	SB4G002-2368	0.461
			SS6A001-2317	0.203
			SS6A009-2329	0.189
			SS6A010-2364	0.148 J
			SS-EU051-3334	0.447
Uranium-238	pCi/g	1.34	SB6A001-2363	4.12
			SS4G002-2365	1.77
			SS6A001-2317	1.38
			SS6A009-2329	1.83
			SS-EU051-3334	2.45
Volatile Organics				
1,1,1-Trichloroethane	μg/Kg	--	SS811-080	0.83 J
1,1-Dichloroethene	μg/Kg	--	SS-EU051-3334	0.648 J
			TB410-2833-02.0-035	1.1
2-Butanone	μg/Kg	--	SS420-057	5.1 J
Acetone	μg/Kg	--	SD737-381	1.5 J
			SS420-057	51.7
Benzene	μg/Kg	--	SB420-142-7	3
			SS420-057	1.2
Carbon disulfide	μg/Kg	--	SS420-057	2.4 J
Tetrachloroethene	μg/Kg	--	SS811-080	1.3

* Data qualifier included with concentration value

Table 4-54
Exposure Unit 5
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Toluene	µg/Kg	--	SB420-142-7	2.2
			SD737-381	0.27 J
			SS420-057	2.8
			SS811-080	2.1
			TB410-2832-06.0-008	0.31 J
			TB410-2833-02.0-035	0.38 J
			TB410-2834-04.0-055	0.39 J
Trichloroethene	µg/Kg	--	SS811-080	1 J
Xylenes (total)	µg/Kg	--	SB420-142-7	1.5 J
			SS420-057	1 J
			SS811-080	0.8 J

* Data qualifier included with concentration value

Table 4-55
Exposure Unit 6
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Antimony	mg/Kg	0.94	SB-EU062-3315-2.0	1.1 BN
Arsenic	mg/Kg	8.73	SD732-370	11.7
Cadmium	mg/Kg	0.53	SB825-742-9.5	0.99
			SD731-368	0.73
			SD732-370	0.86
			SD733-373	0.69 B
			SS825-713	0.744
Lead	mg/Kg	37.6	SD732-370	47.3
			SD734-375	38.9
Mercury	mg/Kg	0.27	SD732-370	0.35
Selenium	mg/Kg	0.37	SB812-165-10	0.79 B
			SB825-742-9.5	0.603 B
			SB-EU062-3315-2.0	0.51 B
			SD732-370	2.2 N
			SD733-373	1.7 N
			SS604-069	2.3 B
			SS607-699	0.79 B
			SS825-713	0.558 B
			SS-EU061-3335	0.83 B
			SS-EU062-3336	0.767 B
Thallium	mg/Kg	--	SB812-165-10	0.03 B
			SB-EU061-3314-2.0	0.059 BE
			SB-EU062-3315-2.0	0.105 BE
			SD732-370	0.31
			SD733-373	0.36
			SD734-375	0.23
			SS602-066	0.04 B
			SS603-068	0.07 B
			SS604-069	0.06 B
			SS812-084	0.1 B
			SS-EU061-3335	0.114 B
			SS-EU062-3336	0.129 E
PCBs				
Aroclor-1254	μg/Kg	--	SD731-368	5.9
			SD734-375	11.3 P
			SS825-713	6
Aroclor-1260	μg/Kg	--	SD732-370	10.5 J
			SD733-373	5.2 J
			SD734-375	12.2
			SS825-713	14.7
Pesticides				

* Data qualifier included with concentration value

Table 4-55
Exposure Unit 6
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
4,4'-DDE	μg/Kg	--	SB-EU061-3314-2.0	1.91
			SB-EU062-3315-2.0	0.273 J
			SS825-713	1.2 JP
4,4'-DDT	μg/Kg	--	SB-EU061-3314-2.0	1.61
delta-BHC	μg/Kg	--	SS825-713	0.48 JP
Dieldrin	μg/Kg	--	SS825-713	0.45 JP
Radionuclides				
Actinium-227	pCi/g	0.08	SB6B005-2360	0.955
			SS606-698	18.9
			SS6B005-2335	1.6
			SS829-409	7.34
			SS-EU061-3335	0.579
Alpha	pCi/g	15.1	SB6B005-2359	513
			SB6B005-2360	168
			SB6B005-2361	40.2
			SB812-165-10	16
			SB828-418-0.5	21
			SB829-419-1.3	21.3
			SS603-068	15.8
			SS829-409	1390
			SS-EU061-3335	26.4
Beta	pCi/g	28.9	SB6B005-2359	214
			SB6B005-2360	114
			SB6B005-2361	48.2
			SD731-368	32.4
			SS829-409	739
Cesium-137	pCi/g	0.343	SD734-375	0.808 J
			SS6C001-2337	0.357
			SS6C003-2339	0.345
			SS829-409	0.848
			SS8G002-2344	0.435
Protactinium-231	pCi/g	0.08	SB6B005-2359	3.53
			SS606-698	18.9

* Data qualifier included with concentration value

Table 4-55
Exposure Unit 6
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	SB6B005-2359	70.1
			SB6B005-2360	9.5
			SB828-418-0.5	8.33
			SB829-419-1.3	3.72
			SD732-370	1.21
			SS606-698	103
			SS607-699	1.3
			SS6A005-2323	2.54
			SS6B001-2330	2.78
			SS6B005-2335	29.3
			SS6C006-2342	1.25
			SS829-409	182
			SS8G001-2343	1.5
			SS8G002-2344	1.35
			SS-EU061-3335	4.1
Thorium-230	pCi/g	1.39	SB6B005-2359	14.5
			SB6B005-2360	3.89
			SB828-418-0.5	3.13
			SB-EU061-3314-2.0	1.49
			SS606-698	352
			SS6B001-2330	1.51
			SS6B005-2335	8.25
			SS829-409	5.29
			SS8G002-2344	1.59
			SS-EU061-3335	8.02
Total Uranium	µg/g	3.58	SB6B005-2359	29.8
			SB6B005-2360	79.2
			SB6B005-2361	27.7
			SB828-418-0.5	9.08
			SS606-698	287
			SS6B005-2335	6.55
			SS6C006-2342	3.69
Uranium-234	pCi/g	1.66	SB6B005-2359	14.3
			SB6B005-2360	40.7
			SB6B005-2361	13.7
			SB828-418-0.5	2.72
			SS606-698	42.5
			SS6B005-2335	2.42
Uranium-235	pCi/g	0.0847	SB6B005-2359	0.874
			SB6B005-2360	3.63
			SS604-069	0.13 J
			SS606-698	2.13
			SS6B001-2330	0.139
			SS6B005-2335	0.252

* Data qualifier included with concentration value

Table 4-55
Exposure Unit 6
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.34	SB6B005-2359	13.4
			SB6B005-2360	39.7
			SB6B005-2361	14
			SB828-418-0.5	3.04
			SS606-698	41.5
			SS6B005-2335	2.62
			SS6C006-2342	1.61
Volatile Organics				
2-Butanone	μg/Kg	--	SS602-066	2.6 J
			SS603-068	12
2-Hexanone	μg/Kg	--	SS603-068	0.71 J
Acetone	μg/Kg	--	SD731-368	3.2 J
			SS602-066	27.2
			SS603-068	98.1
Benzene	μg/Kg	--	SS602-066	1.3
			SS603-068	1.4
Carbon disulfide	μg/Kg	--	SS602-066	2 J
			SS603-068	2.4 J
Methylene chloride	μg/Kg	--	SD731-368	7.1 JB
Toluene	μg/Kg	--	SD731-368	0.25 J
			SS602-066	1.2
			SS603-068	1.3
Xylenes (total)	μg/Kg	--	SS602-066	0.76 J

* Data qualifier included with concentration value

Table 4-56
Exposure Unit 7
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*	
Metals					
Antimony	mg/Kg	0.94	SB-EU071-3316-2.0	1.1	BN
			SS-EU071-3337	1.1	BN
			SS-TWP837-3521	1.52	BN
Boron	mg/Kg	10.1	SS-TWP838-3524	12.1	B
			SS-TWP840-3530	10.5	
			TB802A-2903-03.8-096	12.3	
Chromium	mg/Kg	25.8	SB-EU071-3316-2.0	28.1	*N
Magnesium	mg/Kg	14800	SS-EU072-3338	15400	*
			SS-TWP836-3518	22800	
Nickel	mg/Kg	38	TB802A-2903-03.8-096	46.2	
Potassium	mg/Kg	2860	SS-TWP838-3524	2880	
			TB802A-2903-03.8-096	3140	
Selenium	mg/Kg	0.37	SB-EU071-3316-2.0	0.612	B
			SB-EU072-3317-1.5	0.513	B
			SD711-317	1.1	
			SS806-075	1.3	B
			SS-EU071-3337	0.58	B
			SS-EU072-3338	0.594	B
			SS-TWP835-3515	2.46	N
			SS-TWP836-3518	2.38	N
			SS-TWP837-3521	2.46	N
			SS-TWP838-3524	0.371	B
			SS-TWP840-3530	1.42	N
			TB802-2901-04.2-008	0.667	B
			TB802-2902-04.0-018	0.747	B
			TB802A-2903-03.8-096	0.698	B
			TB808-2850-04.5-016	1.36	B
			TB808-2851-01.5-020	1.54	B
			TB808-2852-01.5-016	1.36	B

* Data qualifier included with concentration value

Table 4-56
Exposure Unit 7
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SB-EU071-3316-2.0	0.139 E
			SB-EU072-3317-1.5	0.118 E
			SD711-317	0.093 B
			SS806-075	0.08 B
			SS807-076	0.06 B
			SS-EU071-3337	0.141 E
			SS-EU072-3338	0.11 BE
			SS-TWP835-3515	0.098 B
			SS-TWP836-3518	0.132
			SS-TWP837-3521	0.158
			SS-TWP838-3524	0.11 B
			SS-TWP840-3530	0.114
			TB802-2901-04.2-008	0.154
			TB802-2902-04.0-018	0.151
			TB802A-2903-03.8-096	0.183
			TB808-2850-04.5-016	0.164 E
			TB808-2851-01.5-020	0.152 E
			TB808-2852-01.5-016	0.147 E
Vanadium	mg/Kg	35.2	TB802A-2903-03.8-096	37.3
PAHs				
Anthracene	µg/Kg	8	TB802A-2903-03.8-096	113
Benzo(a)anthracene	µg/Kg	284	TB802A-2903-03.8-096	491
Benzo(b)fluoranthene	µg/Kg	396	TB802A-2903-03.8-096	641
Benzo(g,h,i)perylene	µg/Kg	16	SS-EU071-3337	36.8
			SS-EU072-3338	17.4
Chrysene	µg/Kg	378	TB802A-2903-03.8-096	486
Dibenzo(a,h)anthracene	µg/Kg	2.7	SS-TWP835-3515	2.77 h
Fluoranthene	µg/Kg	889	TB802A-2903-03.8-096	1540
Fluorene	µg/Kg	2.9	TB802A-2903-03.8-096	26.1 J
Indeno(1,2,3-cd)pyrene	µg/Kg	8.8	TB802A-2903-03.8-096	110
Naphthalene	µg/Kg	--	SS-EU071-3337	17.3 J
			SS-TWP835-3515	2.99 Jh
Phenanthrene	µg/Kg	538	TB802A-2903-03.8-096	727
Pyrene	µg/Kg	716	TB802A-2903-03.8-096	1150
PCBs				
Aroclor-1254	µg/Kg	--	TB802-2902-04.0-018	6.2
			TB802A-2903-03.8-096	7.3 J
			TB808-2852-01.5-016	6.9 P
Aroclor-1260	µg/Kg	--	SS-EU071-3337	2.2 J
			TB802-2902-04.0-018	12
			TB802A-2903-03.8-096	9.3 JP
Pesticides				
4,4'-DDD	µg/Kg	--	TB802-2902-04.0-018	0.67 JP

* Data qualifier included with concentration value

Table 4-56
Exposure Unit 7
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
4,4'-DDE	μg/Kg	--	SB-EU071-3316-2.0	1.55 J
			SS-EU072-3338	0.387 J
			SS-TWP835-3515	1.33 J
			SS-TWP837-3521	0.655 J
			SS-TWP838-3524	0.681 J
			SS-TWP840-3530	0.438 J
4,4'-DDT	μg/Kg	--	SB-EU071-3316-2.0	1.86
			SS-TWP835-3515	1.82
			SS-TWP836-3518	1.18 J
			SS-TWP837-3521	1.24 J
			SS-TWP838-3524	0.506 J
Dieldrin	μg/Kg	--	TB802-2902-04.0-018	0.26 J
Endosulfan sulfate	μg/Kg	--	TB802-2902-04.0-018	0.46 JP
Endrin aldehyde	μg/Kg	--	TB802-2902-04.0-018	0.77 JP
Endrin ketone	μg/Kg	--	TB802-2902-04.0-018	0.53 J
Methoxychlor	μg/Kg	--	TB802-2902-04.0-018	1.9 JP
Radionuclides				
Actinium-227	pCi/g	0.08	SB8D003-2236-1.0	0.565
			SB8D006-2232-0.8	5.83
			SB8D006-2237-1.5	0.86
			SB8D016-2231-2.0	3.33 J
			SB8E003-2235-1.5	3.4
			SD748-2153	3.6
			SD750-2155	4.29
			SS821-709	0.341
			SS8D003-2190	3.3
			SS8D004-2191	3.5 J
			SS8D006-2193	0.782
			SS8D007-2195	1.32
			SS8D009-2197	24
			TB802-2902-04.0-018	0.487
			TB802A-2903-03.8-096	1.61
Alpha	pCi/g	15.1	SD711-317	66.4
			SD743-675	26.5
			SD745-677	48.4
			SS806-075	21.1
			SS807-076	19.8
Beta	pCi/g	28.9	SD711-317	38.3
			SD743-675	30.4
			SD744-676	29.1
			SD745-677	44.1

* Data qualifier included with concentration value

Table 4-56
Exposure Unit 7
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/g	0.343	SB8D003-2233-0.75	1.16
			SB8D003-2236-1.0	0.417
			SB8D016-2231-2.0	5.15 J
			SD748-2153	0.428
			SS8D003-2190	1.07
Radium-226	pCi/g	1.2	SB8D003-2233-0.75	44.5
			SB8D003-2236-1.0	7.17
			SB8D004-2222-1.8	3.79
			SB8D006-2232-0.8	143
			SB8D006-2237-1.5	14.2
			SB8D006-2238-2.0	7.94
			SB8D007-2223-1.8	5.68
			SB8D009-2224-2.0	10
			SB8D016-2231-2.0	19.1 J
			SB8E003-2235-1.5	74.8
			SD711-317	16
			SD744-676	2.4
			SD745-677	1.52
			SD748-2153	58.6
			SD748-2239	10.5
			SD750-2155	75.7
			SD750-2216	3.42
			SS806-075	1.27
			SS807-076	1.7
			SS820-708	2.19
			SS8C001-2184	1.86
			SS8D003-2190	45.5
			SS8D004-2191	42.2 J
			SS8D006-2193	13.4
			SS8D007-2195	14.9
			SS8D009-2197	446
			SS8E001-2198	1.27
			SS-EU072-3338	1.46
			TB802-2901-04.2-008	2.68 J
			TB802-2902-04.0-018	7.83
			TB802A-2903-03.8-096	34.5
			TB808-2851-01.5-020	1.41
			TB808-2852-01.5-016	1.3
Thorium-228	pCi/g	1.64	SB-EU071-3316-2.0	1.69

* Data qualifier included with concentration value

Table 4-56
Exposure Unit 7
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SB8D003-2233-0.75	8.06
			SB8D003-2236-1.0	3.56
			SB8D006-2232-0.8	98.3
			SB8D006-2237-1.5	24.3
			SB8D006-2238-2.0	8.96
			SB8D007-2223-1.8	3.7
			SB8D009-2224-2.0	25.3
			SB8D016-2231-2.0	21.9 J
			SB8D016-3.5-3634	1.76
			SB8E003-2235-1.5	38.5
			SB-EU072-3317-1.5	1.99
			SD711-317	11.4
			SD743-675	2.12
			SD745-677	8.96
			SD748-2153	71.4
			SD748-2239	17.8
			SD750-2155	109
			SD750-2216	7.04
			SS806-075	1.92
			SS807-076	1.57
			SS820-708	3.13
			SS8C001-2184	1.98
			SS8D003-2190	8.94
			SS8D004-2191	58.8 J
			SS8D006-2193	14.1
			SS8D007-2195	9.04
			SS8D008-2196	1.49
			SS8D009-2197	536
			SS8E001-2198	1.66
			SS-EU071-3337	1.74
			SS-EU072-3338	2.52
			SS-TWP835-3515	1.69
			SS-TWP836-3518	2.01
			SS-TWP837-3521	1.62
			SS-TWP838-3524	1.4
			TB802-2901-04.2-008	2.64 J
			TB802-2902-04.0-018	15.2
			TB802A-2903-03.8-096	39.2
			TB808-2851-01.5-020	2.52
			TB808-2852-01.5-016	1.99
Thorium-232	pCi/g	1.24	SB-EU071-3316-2.0	1.26
			SS8D009-2197	1.7
			SS-TWP835-3515	1.3

* Data qualifier included with concentration value

Table 4-56
Exposure Unit 7
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	µg/g	3.58	SB8D003-2233-0.75	4.39
			SB8D003-2236-1.0	3.74
			SB8D006-2232-0.8	4.78
			SB8D016-2231-2.0	12.6
			SD748-2153	5.11
			SD750-2155	8.04
			SS806-075	3.71
			SS820-708	3.94
			SS821-709	3.7
			SS8D002-2189	5.61
			SS8D003-2190	5.71
			SS8D004-2191	5.42
			SS8D007-2195	10.9
			SS8D009-2197	19
			TB802-2902-04.0-018	7.29
			TB802A-2903-03.8-096	17.8
Uranium-234	pCi/g	1.66	SB8D003-2233-0.75	1.75
			SB8D006-2232-0.8	1.67
			SB8D016-2231-2.0	4.2 J
			SD748-2153	2.73
			SD748-2239	1.7
			SD750-2155	4.01
			SS806-075	1.77
			SS820-708	1.95
			SS8D003-2190	1.75
			SS8D004-2191	2.31 J
			SS8D007-2195	2.34
			SS8D009-2197	9.68
			TB802-2902-04.0-018	2.08
			TB802A-2903-03.8-096	5.51
Uranium-235	pCi/g	0.0847	SB8D006-2232-0.8	0.0851
			SB8D006-2238-2.0	0.0866
			SB8D016-2231-2.0	0.247 J
			SD749-2154	0.17
			SD750-2155	0.152
			SD750-2216	0.161
			SS8C002-2185	0.106
			SS8D003-2190	0.15
			SS8D007-2195	0.142
			SS8D009-2197	0.394
			TB802A-2903-03.8-096	0.322

* Data qualifier included with concentration value

Table 4-56
Exposure Unit 7
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.34	SB8D003-2233-0.75	1.46
			SB8D016-2231-2.0	4.14 J
			SD743-675	1.49
			SD748-2153	1.9
			SD748-2239	1.36
			SD750-2155	2.58
			SS820-708	1.65
			SS821-709	1.38
			SS8D003-2190	1.63
			SS8D004-2191	1.85 J
			SS8D007-2195	2.11
			SS8D009-2197	7.1
			SS-EU071-3337	1.66
			TB802-2901-04.2-008	1.46 J
			TB802-2902-04.0-018	2.39
			TB802A-2903-03.8-096	5.61
Volatile Organics				
1,1-Dichloroethene	µg/Kg	--	SS-TWP835-3515	0.714 J
			SS-TWP837-3521	0.9 J
			SS-TWP840-3530	1.02
2-Butanone	µg/Kg	--	SS-TWP838-3524	71.9
			SS-TWP840-3530	9.19
			TB802A-2903-03.8-096	22
Acetone	µg/Kg	--	SS806-075	69.4
			SS-TWP838-3524	8.22
			SS-TWP840-3530	16.2
			TB802A-2903-03.8-096	183
			TB808-2850-04.5-016	3.8 J
			TB808-2852-01.5-016	4 J
Benzene	µg/Kg	--	SS806-075	2
			SS807-076	2.6
Carbon disulfide	µg/Kg	--	SS806-075	1.6 J
Ethylbenzene	µg/Kg	--	TB802A-2903-03.8-096	12.2
Methylene chloride	µg/Kg	--	TB808-2851-01.5-020	1.5 J
Toluene	µg/Kg	--	SS806-075	3.2
			SS807-076	3.4
			TB802A-2903-03.8-096	1.8 J
			TB808-2850-04.5-016	0.5 J

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	19100	SB-EU081-3318-1.5	20000 E*
			SD725-353	20600
			TB302-2813-01.0-042	21800
Antimony	mg/Kg	0.94	C5-SO-SO-D800-1	1.1 J
Beryllium	mg/Kg	1	SD725-353	1.1 B
			SS308-032	1.6
Boron	mg/Kg	10.1	SB-EU081-3318-1.5	36.2 E*N
			SB-EU082-3319-1.5	15.1 N
			SD725-353	16
			SS311-035	10.8
			SS-EU081-3339	16.5 E*N
			SS-MW313-3590	14.4 N
			TB302-2813-01.0-042	12.2
Cadmium	mg/Kg	0.53	SB304-106-9	0.73
			SB307-112-10	0.6
			SB310-115-8.5	0.65
			SD723-349	1.2
			SS304-028	0.87
			SS306-030	0.68
			SS308-032	0.56 B
			SS311-035	0.65 B
			TB301-2811-01.0-029	1.04
Calcium	mg/Kg	58900	SS308-032	99000
			SS311-035	90600
			SS-MW313-3590	70600 *
Chromium	mg/Kg	25.8	SB-EU081-3318-1.5	27.3 *N
			SD723-349	26.6 E
			SD725-353	42.4
			TB301-2811-01.0-029	38.2
			TB302-2813-01.0-042	26.2
Copper	mg/Kg	49.3	SB303-105-8	134
			SD725-353	59.2
			SS308-032	52.3
			SS-MW313-3590	129 *
			TB301-2810-01.5-003	69.5
			TB301-2811-01.0-029	65.8
Lead	mg/Kg	37.6	C5-SO-SO-D800-1	76.9 *
			SS303-027	39.9
			SS308-032	99.8 N
			SS311-035	72 *
			TB301-2810-01.5-003	42.8
			TB301-2811-01.0-029	205

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Lithium	mg/Kg	36.8	C5-SO-SO-D200-8	37.3
			SD725-353	40.5
Magnesium	mg/Kg	14800	SS308-032	49300
			SS311-035	54400
			SS-MW313-3590	38200 *
			TB301-2811-01.0-029	25300
Nickel	mg/Kg	38	SD725-353	42.5
			TB301-2811-01.0-029	107
Potassium	mg/Kg	2860	C5-SO-SO-D200-8	3240 J
			SB-EU082-3319-1.5	3130 E
			SD725-353	3190
			SS309-033	3060 E
			TB302-2813-01.0-042	2920 E
Selenium	mg/Kg	0.37	SB303-105-8	0.88 B
			SB307-112-10	0.8 B
			SB310-115-8.5	1.1
			SB-EU081-3318-1.5	0.629 B
			SB-EU082-3319-1.5	0.387 B
			SD723-349	1.3 B
			SD724-351	1.4 B
			SD725-353	1.8 B
			SS302-026	1.1
			SS303-027	0.85 B
			SS304-028	1 BN
			SS306-030	0.52 B
			SS308-032	1.1 N
			SS309-033	0.81 BN
			SS310-034	0.99
			SS311-035	1.6
			SS-EU081-3339	0.378 B
			SS-MW313-3590	0.545 B
			SS-MW314-3593	0.702 B
			TB301-2809-03.5-034	0.675 BN
			TB301-2811-01.0-029	0.898 BN
			TB302-2812-08.0-004	0.484 BN
			TB302-2813-01.0-042	0.839 BN
			TB302-2814-06.0-074	0.584 BN
Sodium	mg/Kg	331	C5-SO-SO-D200-8	381
			SS308-032	356 E

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	C5-SO-SO-D200-8	0.14 J
			SB303-105-8	0.16
			SB307-112-10	0.13
			SB310-115-8.5	0.12 B
			SB-EU081-3318-1.5	0.183 E
			SB-EU082-3319-1.5	0.158
			SD725-353	0.27
			SS302-026	0.07 B
			SS303-027	0.13
			SS304-028	0.11 B
			SS306-030	0.13 B
			SS307-031	0.09 B
			SS308-032	0.16
			SS309-033	0.08 B
			SS310-034	0.099 B
			SS311-035	0.15
			SS-EU081-3339	0.129 E
			SS-MW313-3590	0.188 E
			SS-MW314-3593	0.191 E
			TB301-2809-03.5-034	0.214 E
			TB301-2810-01.5-003	0.075 BE
			TB301-2811-01.0-029	0.232 E
			TB302-2812-08.0-004	0.116 E
			TB302-2813-01.0-042	0.19 E
			TB302-2814-06.0-074	0.116 BE
Vanadium	mg/Kg	35.2	SB-EU081-3318-1.5	39.7 E*N
			SD725-353	43.3
			TB302-2813-01.0-042	39.2 N
Nitroaromatics				
2-Nitrotoluene	µg/Kg	--	SS308-032	109
PAHs				
Acenaphthene	µg/Kg	79	C5-SO-SO-D800-1	25000 E
			SS308-032	5290
			SS3C007-590	3750 J
			SS3C008-591	13300 J
Anthracene	µg/Kg	8	C5-SO-SO-D800-1	3100 E
			SB-EU081-3318-1.5	26.3
			SS308-032	9140
			SS309-033	1590 J
			SS3C003-586	216 J
			SS3C007-590	7280
			SS3C008-591	24700

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzo(a)anthracene	µg/Kg	284	C5-SO-SO-D800-1	5500 E
			SS308-032	28900 D
			SS309-033	3190
			SS3C002-585	353 J
			SS3C006-589	4750 J
			SS3C007-590	33300 D
			SS3C008-591	73300
			SS3C011-594	16800 J
Benzo(a)pyrene	µg/Kg	313	C5-SO-SO-D800-1	4700 E
			SS308-032	33600 D
			SS309-033	3080
			SS311-035	540 J
			SS3C002-585	408 J
			SS3C006-589	4100 J
			SS3C007-590	34000 D
			SS3C008-591	82500
			SS3C011-594	14900 J
Benzo(b)fluoranthene	µg/Kg	396	C5-SO-SO-D800-1	5800 E
			SS308-032	31500 D
			SS309-033	3430
			SS3C002-585	469
			SS3C006-589	5960 J
			SS3C007-590	37700 D
			SS3C008-591	42800 D
			SS3C011-594	20200 J
Benzo(g,h,i)perylene	µg/Kg	16	C5-SO-SO-D800-1	3100 E
			SB-EU081-3318-1.5	80.7 P
			SS308-032	22500 D
			SS309-033	1860
			SS3C002-585	253 J
			SS3C007-590	22400 D
			SS3C008-591	54100
			SS3C011-594	12600 J
			SS-EU081-3339	45.7
			SS-MW313-3590	55.6
			TB301-2811-01.0-029	45.9
Benzo(k)fluoranthene	µg/Kg	322	C5-SO-SO-D800-1	2400 E
			SS308-032	25900 D
			SS309-033	2280
			SS3C002-585	351 J
			SS3C007-590	31000 D
			SS3C008-591	62900

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Chrysene	µg/Kg	378	C5-SO-SO-D800-1	3800 E
			SS308-032	29400 D
			SS309-033	3100
			SS3C002-585	379 J
			SS3C006-589	4620 J
			SS3C007-590	35700 D
			SS3C008-591	76000
			SS3C011-594	16300 J
Dibenzo(a,h)anthracene	µg/Kg	2.7	C5-SO-SO-D800-1	390 J
			SS308-032	4780
			SS309-033	830 J
			SS3C007-590	9640 JD
			SS3C008-591	22500
			SS-MW313-3590	21
Fluoranthene	µg/Kg	889	C5-SO-SO-D800-1	16000 E
			SS308-032	81500 D
			SS309-033	9650
			SS3C002-585	919
			SS3C006-589	11400
			SS3C007-590	80000 D
			SS3C008-591	92400 D
			SS3C011-594	39200
Fluorene	µg/Kg	2.9	C5-SO-SO-D800-1	1100 E
			SB-EU081-3318-1.5	11.8 J
			SS308-032	4020
			SS309-033	711 J
			SS3C001-584	950 J
			SS3C006-589	4830 J
			SS3C007-590	2630 J
			SS3C008-591	8830 J
			SS3C011-594	15200 J
			SS3C012-596	244 J
			SS3C013-597	226 J
			TB301-2810-01.5-003	7.7 J
			TB301-2811-01.0-029	5.6 J

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Indeno(1,2,3-cd)pyrene	µg/Kg	8.8	C5-SO-SO-D800-1	1900 E
			SS308-032	13800
			SS309-033	1740
			SS3B001-573	2280 J
			SS3C001-584	992 J
			SS3C002-585	220 J
			SS3C006-589	5990 J
			SS3C007-590	19400 D
			SS3C008-591	43600
			SS3C011-594	21200 J
			SS3C012-596	328 J
			SS3C013-597	205 J
			SS-EU081-3339	48.1
			TB301-2811-01.0-029	106
Naphthalene	µg/Kg	--	C5-SO-SO-D800-1	2000
			SB-EU081-3318-1.5	30.6
			SS311-035	181 J
			SS312-036	56.8 J
			SS3A006-561	235 J
			SS-EU081-3339	9.37 J
			SS-MW313-3590	12.6 JP
			TB301-2810-01.5-003	35.2 J
			TB301-2811-01.0-029	22.8 J
Phenanthrene	µg/Kg	538	C5-SO-SO-D800-1	13000 E
			SS308-032	61800 D
			SS309-033	8550
			SS3C002-585	733
			SS3C006-589	8230
			SS3C007-590	57800 D
			SS3C008-591	71600 D
			SS3C011-594	26500
Pyrene	µg/Kg	716	C5-SO-SO-D800-1	12000 E
			SS308-032	53600 E
			SS3C002-585	940
			SS3C006-589	9810
			SS3C007-590	88000 D
			SS3C008-591	99700 D
			SS3C011-594	33600
PCBs				
Aroclor-1254	µg/Kg	--	SB-EU082-3319-1.5	2.7 J

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aroclor-1260	μg/Kg	--	C5-SO-SO-D800-1	130 J
			SB-EU081-3318-1.5	9
			SS303-027	17.2
			SS309-033	5.5
			SS311-035	20.8
			SS-MW314-3593	4.6 h
			TB302-2813-01.0-042	1.6 J
Pesticides				
4,4'-DDD	μg/Kg	--	TB302-2812-08.0-004	0.37 JP
4,4'-DDE	μg/Kg	--	SB-EU081-3318-1.5	0.682 J
			SB-EU082-3319-1.5	0.641 J
			SD723-349	1.8 J
			SS311-035	13.3
			SS-EU081-3339	0.538 J
			SS-MW314-3593	3.08
			TB302-2812-08.0-004	0.24 JP
			TB302-2813-01.0-042	1.6 J
4,4'-DDT	μg/Kg	--	SB-EU081-3318-1.5	0.888 J
			SB-EU082-3319-1.5	2.26
			SS311-035	18.9
			SS-EU081-3339	1.29 J
			SS-MW314-3593	1.88
Dieldrin	μg/Kg	--	SB-EU082-3319-1.5	0.296 J
Heptachlor	μg/Kg	--	C5-SO-SO-D200-8	1.1 J
Heptachlor epoxide	μg/Kg	--	C5-SO-SO-D800-1	110 J
Radionuclides				
Actinium-227	pCi/g	0.08	SB314-415-1.5	1.41
			SB3A017-2249-1.0	0.862
			SB3B015-2471-1.25	0.652
			SB3C014-2472-1.0	1.56
			SB3C015-2475-1.5	0.752
			SS314-404	2.28
			SS3A016-572	0.487
			SS3A021-2392	1.43
			SS3A023-2394	1.29
			SS3A024-2395	0.98
			SS3B011-2398	0.758
			SS3C014-2411	1.44
			SS3C015-2412	1.89
			SS3D001-2414	1.24
			SS3D004-2418	2.98
			SS3D006-2420	3.07
			SS-MW313-3590	0.507
			TB301-2811-01.0-029	1.7

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	15.1	SB304-106-9	17.7
			SB314-415-1.5	103
			SD723-349	18.1
			SD724-351	20.2
			SD725-353	21.9
			SS301-025	20.6
			SS302-026	15.4
			SS303-027	15.3
			SS304-028	20.9
			SS305-029	16.8
			SS306-030	20.8
			SS308-032	84.8
			SS309-033	32.9
			SS310-034	15.2
			SS311-035	56.3
			SS312-036	55.8
			SS314-404	172
			SS-MW313-3590	35.3
Beta	pCi/g	28.9	SB301-103-10	29
			SB304-106-9	32.2
			SB314-415-1.5	54.4
			SD725-353	31.1
			SS301-025	33.9
			SS308-032	47.6
			SS309-033	34.2
			SS311-035	37.6
			SS312-036	43.5
			SS314-404	94.2
			SS-MW313-3590	36.1

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/g	0.343	SB310-115-8.5	0.633 J
			SB314-415-1.5	0.421
			SB3A017-2249-1.0	0.49
			SB3C015-2475-1.5	0.371
			SB3D001-2476-1.0	0.866
			SS306-030	0.619 J
			SS314-404	1.22
			SS3A001-555	0.602
			SS3A002-556	0.611
			SS3A003-557	0.52
			SS3A004-559	0.399
			SS3A005-560	0.474
			SS3A006-561	0.773
			SS3A007-562	0.852
			SS3A013-569	0.579
			SS3A016-572	0.565
			SS3A017-2162	0.719
			SS3A020-2389	0.612
			SS3A021-2392	0.842
			SS3A023-2394	0.806
			SS3B002-575	0.458
			SS3B003-576	0.894
			SS3B004-577	0.557
			SS3B005-578	0.352
			SS3B007-580	0.414
			SS3B010-583	0.515
			SS3B011-2398	1.08
			SS3C001-584	0.466
			SS3C002-585	0.586
			SS3C003-586	0.4
			SS3C004-587	0.448
			SS3C005-588	0.47
			SS3C006-589	0.484
			SS3C007-590	0.903
			SS3C008-591	0.574
			SS3C014-2411	0.468
			SS3C015-2412	0.548
			SS3C016-2413	0.393
			SS3D001-2414	2.23
			SS3D002-2415	3
			SS3D009-2423	0.366
			SS-MW313-3590	0.443
			SS-MW314-3593	0.363
			TB301-2811-01.0-029	4.88

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Plutonium-239/240	pCi/g	--	SB3D001-5.0-3632	0.322

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	SB314-415-1.5	28.1
			SB3A017-2249-1.0	16.7
			SB3B015-2471-1.25	6.43
			SB3C014-2472-1.0	10.6
			SB3C015-2475-1.5	9.95
			SB3D001-2476-1.0	5.63
			SB-EU082-3319-1.5	1.51
			SD723-349	1.55
			SEDC06-08-2146	5.95
			SS303-027	3.84
			SS304-028	1.61
			SS305-029	1.27
			SS308-032	3.56
			SS309-033	2.58
			SS310-034	1.56
			SS311-035	6.58
			SS312-036	7.49
			SS314-404	55.4
			SS3A001-555	2.57
			SS3A002-556	4.06
			SS3A003-557	3.2
			SS3A004-559	2.67
			SS3A005-560	3.87
			SS3A006-561	6.31
			SS3A007-562	5.5
			SS3A008-563	2.26
			SS3A009-565	2.86
			SS3A010-566	2.35
			SS3A011-567	1.77
			SS3A012-568	1.97
			SS3A013-569	5.51
			SS3A016-572	4.21
			SS3A017-2162	15.1
			SS3A020-2389	8.54
			SS3A021-2392	21
			SS3A022-2393	1.48
			SS3A023-2394	17.6
			SS3A024-2395	10.7
			SS3A025-2397	2.6
			SS3B002-575	2.05
			SS3B003-576	7.91
			SS3B004-577	4.16
			SS3B005-578	2.94
			SS3B007-580	2.96

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	SS3B010-583	2.84
			SS3B011-2398	12.5
			SS3B012-2401	1.79
			SS3B013-2402	5.7
			SS3B014-2404	1.7
			SS3B015-2405	12.4
			SS3B016-2406	2.32
			SS3B017-2407	2.61
			SS3B018-2409	1.4
			SS3B019-2410	1.24
			SS3C001-584	1.95
			SS3C002-585	2.31
			SS3C003-586	1.51
			SS3C004-587	1.86
			SS3C005-588	1.98
			SS3C006-589	2.65
			SS3C007-590	2.5
			SS3C008-591	1.8
			SS3C011-594	1.36
			SS3C012-596	2.19
			SS3C013-597	1.58
			SS3C014-2411	13.4
			SS3C015-2412	19.6
			SS3C016-2413	1.94
			SS3D001-2414	19.3
			SS3D002-2415	2.03
			SS3D004-2418	50.2
			SS3D006-2420	82.1
			SS3D007-2421	7.3
			SS3D008-2422	1.43 J
			SS3D009-2423	1.77
			SS-MW313-3590	4.51
			SS-MW314-3593	1.42
			TB301-2811-01.0-029	17.4
			TB302-2813-01.0-042	1.35
			TB303-2816-01.0-016	1.24
Thorium-228	pCi/g	1.64	SB3D002-5.0-3633	1.81
			SB-MH41-8.0-3656	1.68
			SS3A002-556	1.86
			SS-MW313-3590	1.66

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SB314-415-1.5	8.12
			SB3A017-2249-1.0	6.18
			SB3A017-5.0-3635	1.56
			SB3B011-2399-2.0	1.8
			SB3B015-2471-1.25	5.02
			SB3B015-5.0-3637	1.88
			SB3C014-2472-1.0	9.46
			SB3C015-2475-1.5	22.3
			SB3D001-2476-1.0	4.99
			SB-EU081-3318-1.5	1.65
			SB-EU082-3319-1.5	1.62
			SB-MH41-8.0-3656	1.47
			SB-MH43-9.0-3655	1.46
			SB-MH45-9.0-3654	1.5
			SD723-349	2.1 J
			SEDC06-08-2146	4.86
			SS303-027	3.48 J
			SS304-028	1.8 J
			SS306-030	1.87 J
			SS308-032	14.2
			SS309-033	5.64
			SS310-034	1.92 J
			SS311-035	15.6
			SS312-036	10.3
			SS314-404	15.8
			SS3A001-555	2.45
			SS3A002-556	7.36
			SS3A003-557	4.18
			SS3A004-559	5.17
			SS3A005-560	7.79
			SS3A006-561	9.35
			SS3A007-562	8.82
			SS3A008-563	2.33
			SS3A009-565	3.21
			SS3A010-566	3.69
			SS3A011-567	2.61
			SS3A012-568	2.25
			SS3A013-569	7.3
			SS3A016-572	5.79
			SS3A017-2162	7.59
			SS3A021-2392	21.8
			SS3A022-2393	1.53
			SS3A023-2394	11.5
			SS3A024-2395	8.85

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SS3A025-2397	3.87
			SS3B001-573	2.15
			SS3B002-575	3.32
			SS3B003-576	8.65
			SS3B004-577	6.88
			SS3B005-578	3.24
			SS3B007-580	3.09
			SS3B008-581	1.43
			SS3B010-583	5.68
			SS3B011-2398	16.9
			SS3B012-2401	2.75
			SS3B013-2402	12.5
			SS3B014-2404	2.71
			SS3B015-2405	9.85
			SS3B016-2406	3.47
			SS3B017-2407	3.09
			SS3B018-2409	1.94
			SS3B019-2410	2.42
			SS3C001-584	3.61
			SS3C002-585	4.23
			SS3C003-586	2.94
			SS3C004-587	2.72
			SS3C005-588	5.23
			SS3C006-589	10.7
			SS3C007-590	10.8
			SS3C008-591	1.83
			SS3C009-592	1.71
			SS3C011-594	1.86
			SS3C012-596	2.44
			SS3C013-597	2.9
			SS3C014-2411	10.1
			SS3C015-2412	87.9
			SS3C016-2413	3.12
			SS3D001-2414	11.2
			SS3D002-2415	2.24
			SS3D004-2418	7.87
			SS3D006-2420	32.9
			SS3D007-2421	7.54
			SS3D008-2422	2.05 J
			SS3D009-2423	2.25
			SS-EU081-3339	1.41
			SS-MW313-3590	3.07
			SS-MW314-3593	2.89
			TB301-2810-01.5-003	1.8

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	TB301-2811-01.0-029	25.8
			TB302-2813-01.0-042	1.47
			TB303-2816-01.0-016	1.79
			TB305-2922-04.0-014	1.4
			TB305-2924-05.0-080	1.84
Thorium-232	pCi/g	1.24	SS3B010-583	1.25
			SS-MW314-3593	1.48

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	µg/g	3.58	SB3B015-2471-1.25	24.4
			SB3C014-2472-1.0	15.3
			SB3C014-2473-2.0	7.19
			SB3C015-2475-1.5	54.8
			SB-EU081-3318-1.5	5.32
			SB-EU082-3319-1.5	4.18
			SD725-353	5.06
			SS303-027	4.81 J
			SS306-030	4.2 J
			SS308-032	10.4
			SS311-035	5.33
			SS314-404	5.77
			SS3A002-556	3.94
			SS3A003-557	4.24
			SS3A004-559	12.1
			SS3A005-560	9.12
			SS3A006-561	3.92
			SS3A007-562	4.26
			SS3A012-568	4.26
			SS3A013-569	3.95
			SS3A015-571	4.6
			SS3A016-572	5.36
			SS3A021-2392	4.8
			SS3A023-2394	3.73
			SS3A024-2395	4.63
			SS3B001-573	4.77
			SS3B003-576	6.25
			SS3B004-577	5.39
			SS3B005-578	5.44
			SS3B007-580	7.17
			SS3B008-581	3.89
			SS3B010-583	5.62
			SS3B011-2398	5.51
			SS3B014-2404	4.4
			SS3B015-2405	16.9
			SS3B016-2406	4.07
			SS3C002-585	4.19
			SS3C005-588	12.4
			SS3C006-589	5.71
			SS3C007-590	9.41
			SS3C010-593	20.9
			SS3C011-594	6.46
			SS3C012-596	3.81
			SS3C014-2411	15.4

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	µg/g	3.58	SS3C015-2412	330
			SS3C016-2413	3.6
			SS3D001-2414	6.02
			SS3D002-2415	3.61
			SS3D004-2418	4.31
			SS3D005-2419	6.72
			SS3D006-2420	1270
			SS3D007-2421	5630
			SS3D008-2422	15
			SS3D009-2423	20.2
			TB301-2811-01.0-029	11.8
			TB302-2813-01.0-042	3.78
			TB304-2818-01.3-000	31.3
			TB305-2922-04.0-014	5.73
			TB305-2924-05.0-080	4.44

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.66	SB3B015-2471-1.25	6.53
			SB3C014-2472-1.0	7.72
			SB3C014-2473-2.0	2.35
			SB3C015-2475-1.5	17.5
			SB-EU081-3318-1.5	2.11
			SEDC06-08-2146	2.04
			SS303-027	2.72
			SS308-032	3.66
			SS311-035	1.9
			SS312-036	2.25
			SS314-404	2.98
			SS3A002-556	2.34
			SS3A004-559	2.93
			SS3A005-560	9.03
			SS3A006-561	1.78
			SS3A007-562	1.68
			SS3A013-569	2.36
			SS3A016-572	2.01
			SS3B001-573	2.39
			SS3B003-576	2.23
			SS3B004-577	2.59
			SS3B005-578	2.15
			SS3B007-580	2.9
			SS3B010-583	3.42
			SS3B011-2398	2.16
			SS3B013-2402	2.35
			SS3B014-2404	3.67
			SS3B015-2405	7.19
			SS3C002-585	2.09
			SS3C005-588	1.83
			SS3C006-589	2.25
			SS3C007-590	3.89
			SS3C012-596	1.67
			SS3C014-2411	8.5
			SS3C015-2412	64.6
			SS3C016-2413	1.98
			SS3D001-2414	2.4
			SS3D002-2415	2.14
			SS3D005-2419	3.45
			SS3D006-2420	371
			SS3D007-2421	1420
			SS3D008-2422	5.02 J
			SS3D009-2423	7.83
			SS-MW313-3590	2.59

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.66	SS-MW314-3593	2.02
			TB301-2811-01.0-029	3.36
			TB304-2818-01.3-000	9.95
			TB305-2924-05.0-080	1.71
Uranium-235	pCi/g	0.0847	SB303-105-8	0.0894 J
			SB3B015-2471-1.25	0.239
			SB3C014-2472-1.0	0.461
			SB3C014-2473-2.0	0.244
			SB3C015-2475-1.5	0.879
			SB3D001-2476-1.0	0.153
			SB3D002-5.0-3633	0.12
			SS303-027	0.214 J
			SS306-030	0.124 J
			SS308-032	0.102 J
			SS311-035	0.0862 J
			SS3A005-560	0.329
			SS3A006-561	0.186
			SS3A007-562	0.206
			SS3A021-2392	0.209
			SS3A022-2393	0.168
			SS3B012-2401	0.152
			SS3B015-2405	0.403
			SS3B019-2410	0.26
			SS3C013-597	0.363
			SS3C014-2411	0.433
			SS3C015-2412	2.94
			SS3D001-2414	0.233
			SS3D002-2415	0.283
			SS3D004-2418	0.25
			SS3D005-2419	0.237
			SS3D006-2420	21.1
			SS3D007-2421	96.2
			SS3D008-2422	0.697 J
			SS3D009-2423	0.44
			SS-MW314-3593	0.39
			TB301-2811-01.0-029	0.277
			TB304-2818-01.3-000	0.83
			TB305-2922-04.0-014	0.316
			TB305-2924-05.0-080	0.249

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.34	SB314-415-1.5	1.39
			SB3A017-2249-1.0	1.52
			SB3B011-2399-2.0	1.4
			SB3B015-2471-1.25	5.66
			SB3C014-2472-1.0	7.64
			SB3C014-2473-2.0	2.22
			SB3C015-2475-1.5	16.5
			SB-EU081-3318-1.5	2.01
			SD725-353	1.49
			SEDC06-08-2146	3.52
			SS303-027	2.42
			SS306-030	1.48
			SS308-032	3.42
			SS311-035	1.75
			SS312-036	2.09
			SS314-404	2.37
			SS3A002-556	1.62
			SS3A004-559	4
			SS3A005-560	9.23
			SS3A006-561	1.85
			SS3A007-562	1.52
			SS3A013-569	1.42
			SS3A015-571	1.41
			SS3A020-2389	1.89
			SS3A021-2392	1.47
			SS3A022-2393	1.37
			SS3A024-2395	1.92
			SS3B001-573	2.46
			SS3B003-576	2.49
			SS3B004-577	2.17
			SS3B005-578	1.78
			SS3B007-580	2.49
			SS3B008-581	1.51
			SS3B010-583	2.46
			SS3B011-2398	1.81
			SS3B012-2401	1.65
			SS3B013-2402	2.33
			SS3B014-2404	3.34
			SS3B015-2405	7.86
			SS3B016-2406	1.98
			SS3C001-584	1.36
			SS3C002-585	1.56
			SS3C005-588	1.96
			SS3C006-589	2.44

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.34	SS3C007-590	4.03
			SS3C008-591	1.94
			SS3C011-594	1.5
			SS3C014-2411	7.69
			SS3C015-2412	65.9
			SS3C016-2413	1.71
			SS3D001-2414	2.37
			SS3D005-2419	3.77
			SS3D006-2420	373
			SS3D007-2421	1420
			SS3D008-2422	4.7 J
			SS3D009-2423	7.52
			SS-EU081-3339	1.73
			SS-MW313-3590	2.3
			SS-MW314-3593	1.52
			TB301-2811-01.0-029	2.91
			TB304-2818-01.3-000	10.3
			TB305-2924-05.0-080	1.9
Semivolatile Organics				
2-Methylnaphthalene	μg/Kg	--	SS311-035	269 J
			SS312-036	73.4 J
			SS3A006-561	354 J
			TB301-2810-01.5-003	35.3 J
			TB301-2811-01.0-029	28.2 J
Carbazole	μg/Kg	--	C5-SO-SO-D800-1	2700
			SS308-032	6580
			SS309-033	1140 J
			SS3C007-590	9940 JD
			SS3C008-591	20000
Volatile Organics				
1,1-Dichloroethene	μg/Kg	--	SS-MW314-3593	1.4
			TB301-2809-03.5-034	11
			TB301-2811-01.0-029	32.2
			TB302-2812-08.0-004	14.3
			TB302-2814-06.0-074	0.56
			TB303-2817-05.0-033	0.48 J
2-Butanone	μg/Kg	--	TB301-2809-03.5-034	8.1
			TB301-2811-01.0-029	3.3 J
Acetone	μg/Kg	--	SB310-115-8.5	3.7 J
			SS-MW314-3593	13.7
			TB301-2809-03.5-034	80 B
			TB303-2815-05.0-009	4.8
			TB303-2816-01.0-016	4.9
			TB303-2817-05.0-033	14.9

* Data qualifier included with concentration value

Table 4-57
Exposure Unit 8
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Methylene chloride	µg/Kg	--	C5-SO-SO-D800-1	150 J
			TB303-2815-05.0-009	1.2 J
			TB303-2816-01.0-016	1.1 J
			TB303-2817-05.0-033	1.2 J
Tetrachloroethene	µg/Kg	--	SB303-105-8	1.1 J
			SS303-027	0.84 J
Toluene	µg/Kg	--	SB310-115-8.5	8.5
			SD723-349	0.21 J
			SS310-034	5.7
			SS311-035	0.33 J
			TB301-2809-03.5-034	0.33 J
			TB301-2810-01.5-003	0.41 J
			TB301-2811-01.0-029	0.41 J
			TB302-2812-08.0-004	0.2 J
			TB302-2814-06.0-074	0.19 J
			TB303-2815-05.0-009	0.37 J
			TB303-2816-01.0-016	0.32 J
			TB303-2817-05.0-033	0.34 J

* Data qualifier included with concentration value

Table 4-58
Exposure Unit 10
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	19100	SB-EU101-3400-1.0	21600
			SB-EU102-3323-2.0	22200
			SD701-293	20600
			SS-TWP844-3542	20600
			SS-TWP851-3563	21900 *
			SS-TWP852-3566	19500
			SS-TWP854-3572	19900
Antimony	mg/Kg	0.94	SS-MW861-3599	0.951 BN
			SS-MW862-3602	2.59 BN*
			SS-MW863-3605	3.92 J
			SS-TWP834-3512	1.34 N
			SS-TWP839-3527	1.01 BN
			SS-TWP844-3542	2.09 BN*
			SS-TWP850-3560	2.35 BN
			SS-TWP851-3563	1.39 BN
			SS-TWP857-3581	1.87 BN
Beryllium	mg/Kg	1	SB-EU101-3400-1.0	1.1
			SB-EU102-3323-2.0	1.14
			SD701-293	1.1
			SS-TWP852-3566	1.04 B
Boron	mg/Kg	10.1	SB-EU101-3400-1.0	15.8 N
			SB-EU102-3323-2.0	10.3 N
			SS-EU101-3343	11.7 N
			SS-EU102-3344	12.5 N
			SS-EU113-3348	14.8
			SS-TWP831-3503	12.1 B
			SS-TWP832-3506	11.4 N*
			SS-TWP833-3509	12.8
			SS-TWP834-3512	12.9
			SS-TWP850-3560	11.3 B
			SS-TWP852-3566	14.4 B
			SS-TWP854-3572	13.6 B
			SS-TWP855-3575	11.8 B
			SS-TWP858-3584	13.6
			SS-TWP859-3587	12.8
Cadmium	mg/Kg	0.53	SS-MW863-3605	0.623 J
Calcium	mg/Kg	58900	SS-TWP830-3500	104000 *
			SS-TWP853-3569	110000
			SS-TWP859-3587	86900

* Data qualifier included with concentration value

Table 4-58
Exposure Unit 10
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Chromium	mg/Kg	25.8	SB-EU101-3400-1.0	31.9
			SB-EU102-3323-2.0	30.6
			SD701-293	26.8
			SS-TWP851-3563	26.4
			SS-TWP852-3566	27.9
			SS-TWP854-3572	26.8
Iron	mg/Kg	36400	SB-EU102-3323-2.0	36900
			SD701-293	38800
Magnesium	mg/Kg	14800	SD702-295	22100
			SS-TWP830-3500	56300 *
			SS-TWP834-3512	15100
			SS-TWP853-3569	46700
			SS-TWP854-3572	16700
			SS-TWP859-3587	45800
Nickel	mg/Kg	38	SB-EU101-3400-1.0	84.7
Potassium	mg/Kg	2860	SB-EU101-3400-1.0	4950 E
			SS-EU101-3343	2940 E
			SS-EU102-3344	3120 E
			SS-EU113-3348	3010 N
			SS-TWP831-3503	2980
			SS-TWP832-3506	3500 *
			SS-TWP833-3509	3180
			SS-TWP834-3512	3210
			SS-TWP850-3560	3160 *
			SS-TWP852-3566	2890
			SS-TWP854-3572	3190
			SS-TWP858-3584	3570

* Data qualifier included with concentration value

Table 4-58
Exposure Unit 10
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SB102-715-9.5	0.937 B
			SB-EU101-3400-1.0	0.538 B
			SB-EU102-3323-2.0	0.691 B
			SB-EU103-3324-1.0	0.668 B
			SD701-293	0.76 BN
			SD702-295	1.2 B
			SD703-297	1.1
			SS102-685	0.99 B
			SS103-686	0.834 B
			SS-EU103-3345	0.551 B
			SS-EU113-3348	0.643 B
			SS-MW861-3599	2.16 N
			SS-MW862-3602	2.02
			SS-MW863-3605	2.58 J
			SS-TWP831-3503	0.375 B
			SS-TWP833-3509	0.447 B
			SS-TWP839-3527	0.402 B
			SS-TWP844-3542	1.92
			SS-TWP850-3560	2.13 N
			SS-TWP851-3563	2.76 N
			SS-TWP854-3572	0.405 B
			SS-TWP856-3578	0.477 B
			SS-TWP858-3584	0.579 B
			SS-TWP859-3587	0.438 B

* Data qualifier included with concentration value

Table 4-58
Exposure Unit 10
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SB102-715-9.5	0.214 B
			SB-EU101-3400-1.0	0.209
			SB-EU102-3323-2.0	0.141
			SB-EU103-3324-1.0	0.117
			SB-TWP833-10.0-3510	0.052 BE
			SD701-293	0.1 B
			SD702-295	0.15 B
			SD703-297	0.12 B
			SS102-685	0.221 B
			SS103-686	0.147 B
			SS-EU101-3343	0.109 B
			SS-EU102-3344	0.109 B
			SS-EU103-3345	0.103 B
			SS-EU113-3348	0.125 B
			SS-MW861-3599	0.153
			SS-MW862-3602	0.124 E
			SS-MW863-3605	0.199
			SS-TWP830-3500	0.14
			SS-TWP831-3503	0.131
			SS-TWP832-3506	0.13
			SS-TWP833-3509	0.142 E
			SS-TWP834-3512	0.13 E
			SS-TWP839-3527	0.14
			SS-TWP844-3542	0.149 E
			SS-TWP850-3560	0.139
			SS-TWP851-3563	0.148
			SS-TWP852-3566	0.129
			SS-TWP853-3569	0.141
			SS-TWP854-3572	0.096 B
			SS-TWP855-3575	0.163
			SS-TWP856-3578	0.13
			SS-TWP857-3581	0.129
			SS-TWP858-3584	0.135 E
			SS-TWP859-3587	0.148 E

* Data qualifier included with concentration value

Table 4-58
Exposure Unit 10
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Vanadium	mg/Kg	35.2	SB-EU101-3400-1.0	44.3 N
			SB-EU102-3323-2.0	41.1 N
			SD701-293	39.8
			SS-TWP833-3509	36.7
			SS-TWP851-3563	39
			SS-TWP852-3566	37.9
			SS-TWP854-3572	39
			SS-TWP855-3575	37.3
			SS-TWP856-3578	36.7
			SS-TWP857-3581	35.5
			SS-TWP858-3584	36.4
Zinc	mg/Kg	266	SD702-295	830
			SS-MW861-3599	341 E
			SS-MW863-3605	348 J
PAHs				
Anthracene	µg/Kg	8	SS-MW861-3599	136
			SS-MW863-3605	40.2
			SS-TWP831-3503	8.46 J
Benzo(a)anthracene	µg/Kg	284	SS-MW861-3599	900
Benzo(a)pyrene	µg/Kg	313	SS-MW861-3599	691
Benzo(b)fluoranthene	µg/Kg	396	SS-MW861-3599	1280
Benzo(g,h,i)perylene	µg/Kg	16	SS-MW861-3599	300
			SS-MW863-3605	115
Chrysene	µg/Kg	378	SS-MW861-3599	1010
Dibenzo(a,h)anthracene	µg/Kg	2.7	SS-MW861-3599	6.8
			SS-TWP831-3503	2.87
Fluoranthene	µg/Kg	889	SS-MW861-3599	1760
Fluorene	µg/Kg	2.9	SS-MW861-3599	30.7 J
			SS-MW862-3602	7.21 J
			SS-MW863-3605	19.1 J
Indeno(1,2,3-cd)pyrene	µg/Kg	8.8	SS-MW861-3599	387
			SS-MW862-3602	42.4
			SS-MW863-3605	70.9
Phenanthrene	µg/Kg	538	SS-MW861-3599	624
Pyrene	µg/Kg	716	SS-MW861-3599	1420
PCBs				
Aroclor-1254	µg/Kg	--	SB-EU101-3400-1.0	5.1
			SS-EU102-3344	10.4
Aroclor-1260	µg/Kg	--	SS-EU102-3344	2.13 J
			SS-MW863-3605	3.3 J
			SS-TWP833-3509	4.4
Pesticides				

* Data qualifier included with concentration value

Table 4-58
Exposure Unit 10
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
4,4'-DDE	μg/Kg	--	SB-EU101-3400-1.0	1.09 J
			SB-EU103-3324-1.0	2.25
			SB-TWP833-10.0-3510	0.375 J
			SS-EU103-3345	0.47 J
			SS-MW862-3602	0.942 J
			SS-MW863-3605	5.33 J
			SS-TWP833-3509	0.302 J
			SS-TWP834-3512	0.636 J
			SS-TWP844-3542	0.305 J
			SS-TWP854-3572	0.423 J
			SS-TWP855-3575	0.303 J
			SS-TWP856-3578	1.95
			SS-TWP859-3587	2.44
4,4'-DDT	μg/Kg	--	SB-EU101-3400-1.0	2.24
			SB-EU102-3323-2.0	2.29
			SB-EU103-3324-1.0	3.6
			SB-TWP833-10.0-3510	0.952 J
			SS-EU103-3345	2.16
			SS-MW861-3599	2.22
			SS-MW862-3602	1.93
			SS-MW863-3605	12.5
			SS-TWP833-3509	0.8 J
			SS-TWP834-3512	1.96
			SS-TWP839-3527	1.18 J
			SS-TWP851-3563	1.31 J
			SS-TWP853-3569	0.587 J
			SS-TWP856-3578	2.56
			SS-TWP859-3587	2.02
Dieldrin	μg/Kg	--	SS-TWP834-3512	0.237 J
			SS-TWP853-3569	0.222 J
Radionuclides				
Alpha	pCi/g	15.1	SB-EU101-3400-1.0	25.9
			SB-EU102-3323-2.0	35.8
			SD701-293	21.4
			SD703-297	68.2
			SD741-672	16.6
			SS-EU101-3343	19.3
			SS-TWP832-3506	18.8
			SS-TWP833-3509	34.6
			SS-TWP844-3542	16.2
			SS-TWP857-3581	27.1

* Data qualifier included with concentration value

Table 4-58
Exposure Unit 10
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	28.9	SB-EU102-3323-2.0	53.1
			SB-MH06-8.5-3650	30
			SD703-297	39.9
			SS-TWP832-3506	29.1
			SS-TWP833-3509	43.5
			SS-TWP854-3572	31.1
			SS-TWP857-3581	38.5
Cesium-137	pCi/g	0.343	SS1A002-2158	0.35
Radium-226	pCi/g	1.2	SB-EU101-3400-1.0	3.8
			SD703-297	8.52
			SD741-672	1.64
			SS101-684	1.64
			SS1A002-2158	2.04
			SS-EU101-3343	2.69
			SS-TWP844-3542	1.3
Thorium-230	pCi/g	1.39	SB-EU101-3400-1.0	7.42
			SD703-297	10.1
			SS101-684	1.94
			SS102-685	1.45
			SS1A001-2157	1.57
			SS1A002-2158	1.88
			SS-EU101-3343	6.86
			SS-EU102-3344	1.54
			SS-EU113-3348	1.58
			SS-MW861-3599	1.67
			SS-TWP844-3542	2.58
			SS-TWP850-3560	1.44
			SS-TWP851-3563	1.46
			SS-TWP852-3566	2.53
			SS-TWP853-3569	1.52
			SS-TWP855-3575	2.7
			SS-TWP856-3578	2.04 J
Thorium-232	pCi/g	1.24	SB-EU103-3324-1.0	1.26
			SS-TWP852-3566	1.36
			SS-TWP853-3569	1.58
			SS-TWP856-3578	1.36 J
Total Uranium	μg/g	3.58	SB-EU102-3323-2.0	69.4
			SB-EU103-3324-1.0	4.33
			SD703-297	5.6
			SD741-672	4.89
			SS101-684	3.64
			SS103-686	3.9
			SS-TWP833-3509	40.2
			SS-TWP857-3581	24.3

* Data qualifier included with concentration value

Table 4-58
Exposure Unit 10
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.66	SB-EU102-3323-2.0	25.5
			SD703-297	1.94
			SD741-672	2.05
			SS-TWP833-3509	18.9
			SS-TWP852-3566	1.92
			SS-TWP855-3575	2.75
			SS-TWP857-3581	11
Uranium-235	pCi/g	0.0847	SB-EU102-3323-2.0	1.69
			SB-MH06-8.5-3650	0.22
			SD703-297	0.124 J
			SS1A001-2157	0.15
			SS1B002-2160	0.229
			SS-MW861-3599	0.101
			SS-TWP833-3509	0.935
			SS-TWP857-3581	0.842
Uranium-238	pCi/g	1.34	SB-EU102-3323-2.0	23.4
			SB-EU103-3324-1.0	1.42
			SB-MH06-8.5-3650	1.77
			SD703-297	1.72
			SS103-686	1.44
			SS-TWP833-3509	21
			SS-TWP834-3512	1.41
			SS-TWP852-3566	1.67
			SS-TWP854-3572	1.65
			SS-TWP855-3575	2.75
			SS-TWP857-3581	12.2
			SS-TWP858-3584	1.55
Semivolatile Organics				
Carbazole	µg/Kg	--	SS-MW861-3599	43.5 J
			SS-MW863-3605	28.7 J
Volatile Organics				
1,1-Dichloroethene	µg/Kg	--	SB-EU102-3323-2.0	4.97
			SS-MW861-3599	0.82 J
			SS-MW862-3602	0.666 J
			SS-TWP844-3542	0.555 J
			SS-TWP850-3560	0.669 J
			SS-TWP851-3563	0.867 J
2-Butanone	µg/Kg	--	SS-TWP830-3500	63.2
			SS-TWP831-3503	86.4
			SS-TWP832-3506	307
			SS-TWP834-3512	6.27
			SS-TWP839-3527	8.02
			SS-TWP854-3572	11.7
			SS-TWP856-3578	4.48 J

* Data qualifier included with concentration value

Table 4-58
Exposure Unit 10
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Acetone	µg/Kg	--	SS-TWP830-3500	35.5
			SS-TWP831-3503	19.6
			SS-TWP832-3506	21.3
			SS-TWP834-3512	7.3
			SS-TWP854-3572	14
			SS-TWP856-3578	9.03
			SS-TWP857-3581	302
Toluene	µg/Kg	--	SS-TWP831-3503	0.589 J
			SS-TWP832-3506	0.465 J
			SS-TWP850-3560	0.485 J

* Data qualifier included with concentration value

Table 4-59
Exposure Unit 11
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	19100	SB-EU111-3325-1.5	22000
			SB-TWP847-10.0-3552	23100
			SS-EU111-3346	19800
			SS-EU112-3347	22900
			SS-TWP845-3545	19900
			SS-TWP847-3551	21100
			SS-TWP848-3554	22700
			SS-TWP849-3557	19700
			TB810-2907-02.9-012	19500 *
			TB811-2911-02.3-012	20900 *
			TB811-2912-04.0-047	19800 *
			TB812-2913-03.0-055	23600
			TB812-2915-05.0-001	21300
Antimony	mg/Kg	0.94	SB-TWP847-10.0-3552	1 J
			SS-TWP845-3545	1.79 BN*
			SS-TWP846-3548	1.08 BN*
			SS-TWP848-3554	2.3 BN
			SS-TWP849-3557	1.81 BN
Beryllium	mg/Kg	1	SB-EU111-3325-1.5	1.01
			SB-TWP847-10.0-3552	1.02 J
			SD704-302	1.8 E
			SS-EU112-3347	1.2
			SS-TWP848-3554	1.24 B
			TB812-2913-03.0-055	1.14
Boron	mg/Kg	10.1	SB805-158-7.5	11.5
			SB-EU111-3325-1.5	11.6 N
			SB-TWP841-10.0-3534	14.6 N
			SB-TWP843-10.0-3540	15.7
			SB-TWP847-10.0-3552	15.1 J
			SD704-302	20 *
			SS-EU112-3347	12.4 N
			SS-TWP841-3533	10.2 N
			SS-TWP842-3536	12.3
			SS-TWP847-3551	10.3 BN
			SS-TWP848-3554	12.8 B
			TB810-2907-02.9-012	11.2
			TB810-2908-01.8-041	13.4
			TB811-2911-02.3-012	11.5
			TB811-2912-04.0-047	14
			TB812-2915-05.0-001	14.3
Cadmium	mg/Kg	0.53	SD704-302	0.95

* Data qualifier included with concentration value

Table 4-59
Exposure Unit 11
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Calcium	mg/Kg	58900	SB-TWP847-10.0-3552	64700 J
			SS-TWP843-3539	64500
			TB810-2908-01.8-041	74900
			TB812-2915-05.0-001	62600
Chromium	mg/Kg	25.8	SB-EU111-3325-1.5	28
			SB-TWP847-10.0-3552	32.4
			SS-EU112-3347	28.7
			SS-TWP847-3551	30.4
			SS-TWP848-3554	62.1
			SS-TWP849-3557	26.5
			TB812-2913-03.0-055	30.6
			TB812-2915-05.0-001	27.3
Copper	mg/Kg	49.3	SS813-700	54 E*
Iron	mg/Kg	36400	TB812-2913-03.0-055	37700
Lithium	mg/Kg	36.8	SB-TWP847-10.0-3552	38.6 J
			SS-TWP848-3554	38.9 E
			TB812-2913-03.0-055	51.3
Magnesium	mg/Kg	14800	TB810-2908-01.8-041	22000
Mercury	mg/Kg	0.27	SD704-302	1.1
Potassium	mg/Kg	2860	SB-EU111-3325-1.5	2960 E
			SB-TWP841-10.0-3534	3860 *
			SB-TWP843-10.0-3540	3840 E
			SB-TWP847-10.0-3552	4820
			SS-TWP848-3554	2880
			TB810-2907-02.9-012	2930 E*
			TB810-2908-01.8-041	3180 E*
			TB811-2911-02.3-012	3130 E*
			TB811-2912-04.0-047	3630 E*
			TB812-2913-03.0-055	2940
			TB812-2915-05.0-001	3760

* Data qualifier included with concentration value

Table 4-59
Exposure Unit 11
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SB819-736-9.0	1.09 J
			SB-EU111-3325-1.5	0.531 B
			SB-TWP842-10.0-3537	0.88 BN
			SB-TWP843-10.0-3540	1.12 BN
			SB-TWP847-10.0-3552	2.36
			SD704-302	0.99 BN
			SS801-070	0.49 B
			SS802-071	0.67 B
			SS805-074	1.8 B
			SS813-700	0.902 B
			SS819-706	0.845 B
			SS-EU111-3346	0.509 B
			SS-EU112-3347	0.857 B
			SS-TWP842-3536	1.19 N
			SS-TWP843-3539	1.06 BN
			SS-TWP845-3545	2.18
			SS-TWP846-3548	2.13
			SS-TWP847-3551	2.26
			SS-TWP848-3554	2.3 N
			SS-TWP849-3557	1.44 N
			TB810-2907-02.9-012	0.516 BN
			TB810-2908-01.8-041	0.785 BN
			TB810-2909-05.8-045	0.431 BN
			TB811-2910-04.8-044	0.47 BN
			TB811-2911-02.3-012	0.471 BN
			TB811-2912-04.0-047	0.704 BN
			TB812-2913-03.0-055	0.608 B
			TB812-2914-03.0-014	0.614 B
			TB812-2915-05.0-001	0.617 B

* Data qualifier included with concentration value

Table 4-59
Exposure Unit 11
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SB805-158-7.5	0.1 B
			SB819-736-9.0	0.26 J
			SB-EU111-3325-1.5	0.137
			SB-TWP841-10.0-3534	0.116 BE
			SB-TWP842-10.0-3537	0.098 B
			SB-TWP843-10.0-3540	0.141
			SB-TWP847-10.0-3552	0.214 J
			SD704-302	0.13 B
			SS801-070	0.1 B
			SS802-071	0.09 B
			SS805-074	0.07 B
			SS813-700	0.16 B
			SS819-706	0.16 B
			SS-EU111-3346	0.121
			SS-EU112-3347	0.165
			SS-TWP841-3533	0.14 E
			SS-TWP842-3536	0.119
			SS-TWP843-3539	0.126
			SS-TWP845-3545	0.131 E
			SS-TWP846-3548	0.1 BE
			SS-TWP847-3551	0.13 E
			SS-TWP848-3554	0.117
			SS-TWP849-3557	0.144
			TB810-2907-02.9-012	0.154 E
			TB810-2908-01.8-041	0.143 E
			TB810-2909-05.8-045	0.132 E
			TB811-2910-04.8-044	0.067 BE
			TB811-2911-02.3-012	0.151 E
			TB811-2912-04.0-047	0.139 E
			TB812-2913-03.0-055	0.157
			TB812-2914-03.0-014	0.139
			TB812-2915-05.0-001	0.174
Vanadium	mg/Kg	35.2	SB-EU111-3325-1.5	39.6 N
			SB-TWP847-10.0-3552	41.8 J
			SS-EU112-3347	39.3 N
			SS-TWP847-3551	36.9 N
			SS-TWP849-3557	46.8 *N
			TB810-2907-02.9-012	36.8 *
			TB810-2908-01.8-041	37 *
			TB811-2911-02.3-012	40.1 *
			TB811-2912-04.0-047	39.2 *
			TB812-2913-03.0-055	48.8
			TB812-2914-03.0-014	38.7
			TB812-2915-05.0-001	39.1

* Data qualifier included with concentration value

Table 4-59
Exposure Unit 11
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
PAHs				
Acenaphthene	µg/Kg	79	SS2A003-531	296
Anthracene	µg/Kg	8	SS2A002-530	48.2
			SS2A003-531	518
			SS-TWP848-3554	77.7
Benzo(a)anthracene	µg/Kg	284	SS2A003-531	2430
			SS-TWP848-3554	416
Benzo(a)pyrene	µg/Kg	313	SS2A002-530	349
			SS2A003-531	2560
			SS-TWP848-3554	536
Benzo(b)fluoranthene	µg/Kg	396	SS2A003-531	2740
			SS-TWP848-3554	801
Benzo(g,h,i)perylene	µg/Kg	16	SS2A002-530	234
			SS2A003-531	1410
			SS-TWP848-3554	281
Benzo(k)fluoranthene	µg/Kg	322	SS2A002-530	404
			SS2A003-531	2940
Chrysene	µg/Kg	378	SS2A002-530	409
			SS2A003-531	2980
			SS-TWP848-3554	436
Fluoranthene	µg/Kg	889	SS2A003-531	7210 D
Fluorene	µg/Kg	2.9	SS2A002-530	27.9 J
			SS2A003-531	263
			SS-TWP848-3554	22.2 J
Indeno(1,2,3-cd)pyrene	µg/Kg	8.8	SS2A002-530	268
			SS2A003-531	1330
			SS-TWP848-3554	280
Naphthalene	µg/Kg	--	SS2A002-530	46.6
			SS2A003-531	336
			SS-TWP841-3533	3.44 J
Phenanthrene	µg/Kg	538	SS2A003-531	4360
Pyrene	µg/Kg	716	SS2A002-530	748
			SS2A003-531	6280 D
PCBs				
Aroclor-1242	µg/Kg	--	SS-TWP843-3539	4.8
			SS-TWP846-3548	6.7
Aroclor-1254	µg/Kg	--	SB-TWP847-10.0-3552	2.7 J
			SS-TWP846-3548	2.6 J
			SS-TWP847-3551	3.8 J
Pesticides				

* Data qualifier included with concentration value

Table 4-59
Exposure Unit 11
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
4,4'-DDE	μg/Kg	--	SB-EU111-3325-1.5	0.419 J
			SS-TWP842-3536	0.361 J
			SS-TWP845-3545	0.335 J
			SS-TWP846-3548	0.594 J
			SS-TWP847-3551	0.892 J
			TS809-2904-001	2.9 J
4,4'-DDT	μg/Kg	--	SB-EU111-3325-1.5	2.65
			SS-TWP843-3539	2.47
			SS-TWP846-3548	1.19 J
			SS-TWP847-3551	1.28 J
Radionuclides				
Actinium-227	pCi/g	0.08	SB826-416-1.3	0.478
			SD752-2241	0.906
			SS826-405	0.97
			SS827-406	9.22
			SS830-1036	132
			SS8A014-2181	3.6
			SS8H001-2443	0.629
Alpha	pCi/g	15.1	SB826-416-1.3	60.5
			SB827-417-2.0	75.7
			SB830-1037-2.0	48.5
			SD704-302	17.8
			SS801-070	17.7
			SS802-071	16.9
			SS805-074	21.8
			SS826-405	42.8
			SS827-406	536
			SS830-1036	3840
			SS-TWP848-3554	17.2
			TS812-2928-062	19000
Beta	pCi/g	28.9	SB805-158-7.5	32.4
			SB826-416-1.3	44.2
			SB827-417-2.0	53.6
			SB830-1037-2.0	81.6
			SB-TWP843-10.0-3540	30.1
			SB-TWP847-10.0-3552	30.3
			SD-CD1-3401-0.67	29.6
			SS801-070	38.6
			SS826-405	39.3
			SS827-406	301
			SS830-1036	1830
			TS812-2928-062	15100

* Data qualifier included with concentration value

Table 4-59
Exposure Unit 11
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/g	0.343	SD752-2241	0.472
			SS2A006-2369	0.447
			SS8H001-2443	0.688
			SS8H002-2444	0.388
Plutonium-239/240	pCi/g	--	TS812-2928-062	0.129

* Data qualifier included with concentration value

Table 4-59
Exposure Unit 11
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	SB2A005-2220-1.7	1.69
			SB2A005-2240	3.41
			SB752-2250-1.5	3.31
			SB752-2252-1.0	14.4
			SB826-416-1.3	5.99
			SB827-417-2.0	8.37
			SB830-1037-2.0	2.25
			SB8A003-2217-2.0	1.6
			SB8A009-2218-2.0	1.65
			SD704-302	1.37
			SD752-2241	25.7
			SS2A004-2173	4.18
			SS2A006-2369	5.46
			SS2A009-2373	1.34
			SS801-070	1.81
			SS802-071	1.25
			SS805-074	1.5
			SS813-700	1.37
			SS814-701	2.71
			SS826-405	13.2
			SS827-406	185
			SS830-1036	386
			SS8A002-2174	3.01
			SS8A003-2175	47.9
			SS8A004-2176	6.2
			SS8A005-2177	2.12
			SS8A010-2182	1.24
			SS8A014-2181	67.9
			SS8B010-2442	1.83
			SS8H001-2443	7.49
			SS8H002-2444	15.1 J
			SS-TWP848-3554	1.76
			TB809-2906-01.0-045	1.9
			TB810-2908-01.8-041	82.7
			TB811-2912-04.0-047	1.23
			TB813-2925-08.0-013	32.6
			TB813-2926-01.0-021	1.65
			TS809-2904-001	3.09
			TS809-2905-007	3.39
			TS812-2928-062	9.64
Radium-228	pCi/g	1.26	SS827-406	1.35
			SS8A014-2181	1.49

* Data qualifier included with concentration value

Table 4-59
Exposure Unit 11
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-228	pCi/g	1.64	SB819-736-9.0	1.95
			SB-TWP841-10.0-3534	1.8
			SB-TWP843-10.0-3540	1.71
			SS827-406	1.74

* Data qualifier included with concentration value

Table 4-59
Exposure Unit 11
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SB2A005-2220-1.7	2.37
			SB2A005-2240	4.88
			SB752-2250-1.5	4.84
			SB752-2252-1.0	12.3
			SB826-416-1.3	13.2
			SB827-417-2.0	3.35
			SB830-1037-2.0	3.63
			SB8A001-2221-2.0	1.51
			SB8A003-2217-2.0	2.79
			SB8A009-2218-2.0	2.57
			SB-TWP841-10.0-3534	1.8
			SB-TWP843-10.0-3540	1.91
			SB-TWP847-10.0-3552	1.62 J
			SD704-302	1.82 J
			SD752-2241	18.2
			SS2A002-530	1.57
			SS2A004-2173	6.31
			SS2A006-2369	8.04
			SS2A009-2373	2.93
			SS801-070	1.49
			SS805-074	2.79
			SS813-700	2.02
			SS814-701	2.62
			SS826-405	11.9
			SS827-406	33.3
			SS830-1036	304
			SS8A002-2174	3.68
			SS8A003-2175	87.6
			SS8A004-2176	9.79
			SS8A005-2177	3.03
			SS8A008-2180	1.4
			SS8A014-2181	68.5
			SS8B009-2441	2.83
			SS8B010-2442	2.33
			SS8H001-2443	10
			SS8H002-2444	22.5 J
			SS-EU111-3346	1.44 J
			SS-TWP841-3533	2.01
			SS-TWP842-3536	1.75
			SS-TWP845-3545	2.57
			SS-TWP847-3551	2
			SS-TWP848-3554	2.7
			SS-TWP849-3557	2.06 J
			TB809-2906-01.0-045	8.2

* Data qualifier included with concentration value

Table 4-59
Exposure Unit 11
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	TB810-2907-02.9-012	1.76
			TB810-2908-01.8-041	29.6
			TB811-2910-04.8-044	1.72
			TB811-2911-02.3-012	1.77
			TB811-2912-04.0-047	1.47
			TB812-2914-03.0-014	1.82
			TB813-2925-08.0-013	31.2
			TB813-2926-01.0-021	2.49
			TB813-2927-03.9-029	1.83
			TS809-2904-001	4.58
			TS809-2905-007	5.95
			TS812-2928-062	14.3
Thorium-232	pCi/g	1.24	SB819-736-9.0	1.31
			SB-TWP842-10.0-3537	1.33
			SB-TWP847-10.0-3552	1.27 J
			SS-TWP841-3533	1.39
			SS-TWP842-3536	1.52
			SS-TWP843-3539	1.25
			SS-TWP848-3554	1.54
			SS-TWP849-3557	1.32 J
			TB809-2906-01.0-045	1.34
			TB813-2925-08.0-013	1.87
			TS809-2905-007	1.34

* Data qualifier included with concentration value

Table 4-59
Exposure Unit 11
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	μg/g	3.58	SB752-2252-1.0	3.71
			SB826-416-1.3	10.8
			SB827-417-2.0	6.51
			SB830-1037-2.0	30.1
			SB8A009-2218-2.0	3.77
			SB8B008-2440-2.0	4.47
			SD-CD1-3401-0.67	4.69
			SS801-070	3.79
			SS813-700	3.65
			SS814-701	9.52
			SS819-706	55.8
			SS826-405	9.87
			SS827-406	8.35
			SS830-1036	884
			SS8A003-2175	5.86
			SS8A004-2176	3.65
			SS8A006-2178	3.61
			SS8A014-2181	4.98
			SS8B008-2438	15.5
			SS8B010-2442	8.09
			SS8H001-2443	10.4
			SS8H002-2444	11.3
			SS-EU111-3346	4.14
			TB809-2906-01.0-045	3.66
			TB810-2907-02.9-012	3.94
			TB810-2908-01.8-041	6.13
			TB811-2912-04.0-047	4.37
			TB813-2925-08.0-013	6.52
			TB813-2926-01.0-021	9.16
			TS812-2928-062	2860

* Data qualifier included with concentration value

Table 4-59
Exposure Unit 11
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.66	SB826-416-1.3	5.86
			SB827-417-2.0	3.59
			SB830-1037-2.0	3.06
			SD-CD1-3401-0.67	2.09
			SS2A006-2369	1.96
			SS814-701	3.77
			SS819-706	15.6
			SS826-405	4.05
			SS827-406	3.34
			SS830-1036	89.9
			SS8A003-2175	4.19
			SS8A014-2181	2.38
			SS8B010-2442	2.94
			SS8H001-2443	2.89
			SS8H002-2444	3.8 J
			SS-TWP841-3533	1.85
			SS-TWP845-3545	1.73
			SS-TWP848-3554	2.1
			TB811-2912-04.0-047	1.8
			TB813-2925-08.0-013	2.17
			TB813-2926-01.0-021	1.92
			TS812-2928-062	8340
Uranium-235	pCi/g	0.0847	SB-EU111-3325-1.5	0.153
			SS819-706	0.625
			SS827-406	0.381
			SS830-1036	3.43
			SS8A003-2175	0.285
			SS8A004-2176	0.154
			SS8A014-2181	0.115
			SS8B010-2442	0.239
			SS8H001-2443	0.197
			SS8H002-2444	0.404 J
			SS-TWP841-3533	0.293
			SS-TWP845-3545	0.236
			SS-TWP846-3548	0.226
			SS-TWP847-3551	0.473
			SS-TWP848-3554	0.094
			TB811-2910-04.8-044	0.423
			TB811-2911-02.3-012	0.335
			TB812-2914-03.0-014	0.157
			TB813-2925-08.0-013	0.186
			TB813-2926-01.0-021	0.214
			TS809-2904-001	0.0981
			TS812-2928-062	886

* Data qualifier included with concentration value

Table 4-59
Exposure Unit 11
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.34	SB826-416-1.3	6.53
			SB827-417-2.0	1.46
			SB830-1037-2.0	2.66
			SD-CD1-3401-0.67	2.01
			SS2A004-2173	1.74
			SS2A006-2369	1.95
			SS801-070	1.58
			SS813-700	1.61
			SS814-701	3.31
			SS819-706	14.7
			SS826-405	3.76
			SS827-406	2.36
			SS830-1036	88.6
			SS8A003-2175	3.18
			SS8A004-2176	1.38
			SS8A014-2181	1.75
			SS8B010-2442	2.92
			SS8H001-2443	2.83
			SS8H002-2444	4.04 J
			SS-TWP841-3533	1.82
			SS-TWP845-3545	1.66
			SS-TWP848-3554	1.93
			SS-TWP849-3557	1.43
			TB811-2912-04.0-047	1.91
			TB813-2925-08.0-013	1.95
			TB813-2926-01.0-021	1.86
			TS812-2928-062	8830
Semivolatile Organics				
2-Methylnaphthalene	µg/Kg	--	SS2A002-530	53.8
			SS2A003-531	449
Carbazole	µg/Kg	--	SS2A002-530	49.2 J
			SS2A003-531	334 J
			SS-TWP848-3554	45 J
Dibenzofuran	µg/Kg	--	SS2A002-530	30.3 J
			SS2A003-531	277 J
Diethylphthalate	µg/Kg	--	SS-EU111-3346	31.6 J
			TB810-2909-05.8-045	384 J
Volatile Organics				
1,1-Dichloroethene	µg/Kg	--	SB-TWP842-10.0-3537	1.13
			TB811-2910-04.8-044	1.3

* Data qualifier included with concentration value

Table 4-59
Exposure Unit 11
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
2-Butanone	µg/Kg	--	SS801-070	36.5
			SS805-074	45.9
			SS-TWP842-3536	6.19
			SS-TWP845-3545	13.9
			SS-TWP848-3554	8.22
Acetone	µg/Kg	--	SB819-736-9.0	4 J
			SB-TWP841-10.0-3534	8.33
			SB-TWP842-10.0-3537	7.68
			SB-TWP843-10.0-3540	6.74
			SS805-074	29.6
			SS-EU112-3347	6.08 J
			SS-TWP845-3545	4.19 J
			SS-TWP847-3551	3.93 J
			SS-TWP848-3554	4.21 J
			TB810-2907-02.9-012	3.7 J
			TB810-2909-05.8-045	4 J
			TB811-2910-04.8-044	3.7 J
Benzene	µg/Kg	--	SS801-070	2.3
			SS805-074	2.6
Toluene	µg/Kg	--	SS801-070	1.8
			SS805-074	1.9
			SS-TWP848-3554	0.799 J
			SS-TWP849-3557	0.405 J
			TB810-2907-02.9-012	0.71 J
			TB810-2908-01.8-041	0.55 J
			TB810-2909-05.8-045	0.82 J

* Data qualifier included with concentration value

Table 4-60
Exposure Unit 12
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	19100	SB-BH219-6.0-3661	20500
			SS-EU121-3349	23200
			SS-EU122-3350	19900
Antimony	mg/Kg	0.94	SB-BH219-6.0-3661	0.981 BN
Arsenic	mg/Kg	8.73	SS204-004	22.5
			SS2B001-532	9.03 N
			SS2B002-534	51.8 N
Barium	mg/Kg	263	SS-EU121-3349	301 N*
Beryllium	mg/Kg	1	SB-EU121-3326-2.0	1.03
			SB-EU122-3407-1.0	1.03
			SS2B001-532	1.03
			SS2B002-534	1.79
			SS-EU121-3349	1.49
			SS-EU122-3350	1.1
Boron	mg/Kg	10.1	SB215-099-7.5	27.9 *
			SB-BH219-6.0-3661	11
			SB-EU121-3326-2.0	15.9 N
			SB-EU122-3407-1.0	11.3 J
			SS204-004	21
			SS215-019	27.7 *
			SS2B001-532	23.6
			SS2B002-534	37.6
			SS-EU121-3349	12.8 N
Cadmium	mg/Kg	0.53	SB215-099-7.5	0.93
			SS215-019	0.7
			SS-EU121-3349	1.29
Chromium	mg/Kg	25.8	SB206-090-9	28.2
			SB-BH219-6.0-3661	26.5
			SB-EU121-3326-2.0	27.1
			SB-EU122-3407-1.0	26.6
			SS-EU121-3349	28.1
			SS-EU122-3350	27.6
Copper	mg/Kg	49.3	SS-EU121-3349	99.8
Potassium	mg/Kg	2860	SB206-090-9	3110 N
			SB-BH219-6.0-3661	3290
			SB-EU121-3326-2.0	3920 E
			SB-EU122-3407-1.0	3010 J

* Data qualifier included with concentration value

Table 4-60
Exposure Unit 12
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SB204-088-9	1.1
			SB206-090-9	1.2 N
			SB215-099-7.5	0.87 BN
			SB-BH219-6.0-3661	0.762 B
			SB-EU121-3326-2.0	0.642 B
			SS204-004	1.7 B
			SS206-009	1.5 N
			SS215-019	0.7 BN
			SS2B001-532	1.38 B
			SS2B002-534	3.13 B
			SS-EU121-3349	1.89
			SS-EU122-3350	0.666 B
			SS-EU123-3351	0.989 B
Silver	mg/Kg	0.27	SS2B001-532	0.352 BN
			SS2B002-534	0.361 BN
Thallium	mg/Kg	--	SB204-088-9	0.14
			SB206-090-9	0.13
			SB215-099-7.5	0.11 B
			SB-BH219-6.0-3661	0.123 BE
			SB-EU121-3326-2.0	0.155
			SB-EU122-3407-1.0	0.116 J
			SS204-004	0.39
			SS206-009	0.09 B
			SS215-019	0.09 B
			SS2B001-532	0.121 B
			SS2B002-534	0.18 B
			SS-EU121-3349	0.215
			SS-EU122-3350	0.114 B
			SS-EU123-3351	0.153
Vanadium	mg/Kg	35.2	SB-BH219-6.0-3661	43.6
			SB-EU121-3326-2.0	40.3 N
			SB-EU122-3407-1.0	38.8 J
			SS-EU121-3349	45.8 N
			SS-EU122-3350	41 N
PAHs				
Anthracene	µg/Kg	8	SS204-004	43.5 J
Benzo(a)anthracene	µg/Kg	284	SS2B002-534	945 J
Benzo(a)pyrene	µg/Kg	313	SS2B002-534	1340 J
Benzo(b)fluoranthene	µg/Kg	396	SS2B002-534	3550
Benzo(g,h,i)perylene	µg/Kg	16	SS206-009	63.4 J
			SS2B002-534	1070 J
			SS-EU121-3349	18.9
Benzo(k)fluoranthene	µg/Kg	322	SS2B002-534	1250 J

* Data qualifier included with concentration value

Table 4-60
Exposure Unit 12
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Chrysene	µg/Kg	378	SS2B002-534	1790
Fluoranthene	µg/Kg	889	SS2B002-534	1120 J
Indeno(1,2,3-cd)pyrene	µg/Kg	8.8	SS2B001-532	965 J
			SS2B002-534	1600 J
Naphthalene	µg/Kg	--	SB204-088-2	568
			SS204-004	1330
			SS2B002-534	2170
			SS-EU121-3349	3.03 JP
Phenanthrene	µg/Kg	538	SS204-004	988
			SS2B002-534	1050 J
PCBs				
Aroclor-1260	µg/Kg	--	SS-EU121-3349	4.8 J
			SS-EU122-3350	1.4 J
Pesticides				
4,4'-DDE	µg/Kg	--	SB-BH219-6.0-3661	0.378 J
			SB-EU121-3326-2.0	0.758 J
			SS-EU121-3349	1.46 J
			SS-EU122-3350	1.21 J
4,4'-DDT	µg/Kg	--	SB-BH219-6.0-3661	0.796 J
			SB-EU121-3326-2.0	2.73
			SS-EU121-3349	2.84
			SS-EU122-3350	2.28
Radionuclides				
Actinium-227	pCi/g	0.08	SS218-400	2.71
			SS219-401	2.72
Alpha	pCi/g	15.1	SB206-090-9	19.6
			SB218-410-2.0	17.1
			SB219-411-2.0	17.3
			SD719-341	19.6
			SS205-008	38.9
			SS215-019	19.2
			SS218-400	284
			SS219-401	99.2
			SS-EU121-3349	22.3
			SS-EU123-3351	17.1 J
Beta	pCi/g	28.9	SB206-090-9	32.3
			SB218-410-2.0	31.7
			SS218-400	153
			SS219-401	72

* Data qualifier included with concentration value

Table 4-60
Exposure Unit 12
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/g	0.343	SS219-401	0.679
			SS2A008-2371	0.47
			SS2B002-534	0.438
			SS2D001-547	0.572
			SS2D002-548	0.508
			SS2D003-549	0.484
			SS2D004-550	0.542
			SS2D005-551	0.424
			SS2D012-2384	0.739
Radium-226	pCi/g	1.2	SB219-411-2.0	1.61
			SS205-008	7.87
			SS206-009	1.72
			SS215-019	1.41
			SS218-400	29.6
			SS219-401	24.1
			SS2A008-2371	8.65
			SS2B001-532	1.41
			SS2B002-534	3.43
			SS2C002-2380	1.65
			SS2D001-547	1.47
			SS2D002-548	1.59
			SS2D003-549	2.13
			SS2D005-551	1.77
			SS2D011-2383	1.37
			SS2D012-2384	10.7
			SS2D013-2385	5.92
			SS-EU121-3349	1.46
			SS-EU123-3351	1.39
Thorium-228	pCi/g	1.64	SB2B002-649-9.5	1.66
			SB-BH219-6.0-3661	2.13
			SS219-401	1.96
			SS-EU123-3351	2.08 J

* Data qualifier included with concentration value

Table 4-60
Exposure Unit 12
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SB219-411-2.0	1.57
			SD719-341	2.08 J
			SS204-004	2.17
			SS205-008	3.47
			SS206-009	1.65
			SS218-400	69.6
			SS219-401	39.2
			SS2A008-2371	14
			SS2B001-532	1.42
			SS2B002-534	2.54
			SS2C002-2380	2.32
			SS2D001-547	2.75
			SS2D002-548	2.97
			SS2D003-549	3.26
			SS2D005-551	2.39
			SS2D009-2381	1.73
			SS2D011-2383	2.29
			SS2D012-2384	4.2
			SS2D013-2385	3.36
			SS-EU121-3349	2.51
			SS-EU122-3350	1.72
			SS-EU123-3351	2.59 J
Thorium-232	pCi/g	1.24	SB218-410-2.0	1.44
			SB219-411-2.0	1.47
			SS2D003-549	1.46
			SS2D005-551	1.39
			SS2D011-2383	1.33
			SS-EU123-3351	1.3 J
Total Uranium	μg/g	3.58	SB206-090-9	4.77
			SB215-099-7.5	3.61 J
			SB219-411-2.0	3.91
			SB-BH219-6.0-3661	4.37
			SD719-341	4.13 J
			SS218-400	49.4
			SS219-401	20.9
			SS2B002-534	3.65
			SS2D009-2381	5.57
			SS2D011-2383	7.71
			SS-EU121-3349	15.4
			SS-EU123-3351	3.64

* Data qualifier included with concentration value

Table 4-60
Exposure Unit 12
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.66	SB215-099-7.5	1.69
			SB219-411-2.0	1.95
			SB-BH219-6.0-3661	2.36
			SD719-341	1.75
			SS218-400	12.1
			SS219-401	7.71
			SS2A008-2371	1.77
			SS2B002-534	1.81
			SS2D009-2381	2.23
			SS2D011-2383	3.08
			SS-EU121-3349	6
			SS-EU123-3351	1.96 J
Uranium-235	pCi/g	0.0847	SB215-099-7.5	0.111 J
			SS218-400	0.409
			SS2D011-2383	0.179
			SS2D013-2385	0.269
			SS-EU121-3349	0.251
Uranium-238	pCi/g	1.34	SB215-099-7.5	1.61
			SB218-410-2.0	1.41
			SB-BH219-6.0-3661	1.82
			SD719-341	1.49
			SS218-400	12.1
			SS219-401	7.51
			SS2A008-2371	1.64
			SS2B002-534	1.78
			SS2D009-2381	2.5
			SS2D011-2383	3.05
			SS-EU121-3349	5.66
			SS-EU123-3351	1.52 J
Semivolatile Organics				
2-Methylnaphthalene	μg/Kg	--	SB204-088-2	798
			SS204-004	2050
			SS2B002-534	2950
Benzoic Acid	μg/Kg	--	SS204-004	602 J
Dibenzofuran	μg/Kg	--	SB204-088-2	233 J
			SS204-004	612
Volatile Organics				
2-Butanone	μg/Kg	--	SB-BH219-6.0-3661	17.7
			SS215-019	5.4 J
Acetone	μg/Kg	--	SB-BH219-6.0-3661	81.9
			SS215-019	6.7

* Data qualifier included with concentration value

Table 4-60
Exposure Unit 12
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Methylene chloride	μg/Kg	--	SB206-090-9	9.6
			SS205-008	18.2
			SS206-009	18.5
Toluene	μg/Kg	--	SB204-088-9	1.1 J

* Data qualifier included with concentration value

Table 4-61
Exposure Unit 13
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	19100	TB202-2803-05.2-038	21900
			TB202-2804-03.5-025	20800
			TB202-2805-03.0-062	21400
			TB203-2806-01.0-013	24100
			TB203-2807-04.0-058	22400
Antimony	mg/Kg	0.94	SB-BH225-10.0-3667	1.15 BN
			SB-EU131-3408-2.0	0.98 BN
			SS208-011	2.2 N
			SS-EU133-3354	1.3 N
Arsenic	mg/Kg	8.73	SB-CORE01-0.5-3731	10.7
			SS217-021	11.2
Barium	mg/Kg	263	TB202-2805-03.0-062	315
Beryllium	mg/Kg	1	TB202-2805-03.0-062	1.04
			TB203-2806-01.0-013	1.13
			TB203-2807-04.0-058	1.25
Boron	mg/Kg	10.1	SB213-097-3	17 N
			SB213-097-7.5	15.4 N
			SB-BH222-6.0-3664	15.8 N*
			SB-BH225-10.0-3667	26.2 N*
			SB-CORE03-1.5-3735	57.9
			SB-CORE04-0.5-3737	35.3
			SB-CORE05-0.5-3739	16.8
			SB-CORE06-0.5-3741	10.5
			SB-CORE07-0.5-3743	13.5
			SB-CORE08-0.5-3745	24.5
			SB-CORE09-0.5-3747	14.3
			SB-CORE10-0.5-3749	14.4
			SB-EU131-3408-2.0	10.7
			SS208-011	33.2
			SS213-017	15.4 N
			SS-EU131-3352	10.5 N
			SS-EU132-3353	21.4
			SS-EU133-3354	10.2
			SS-MW229-3617	57.6
			TB202-2803-05.2-038	343
			TB202-2804-03.5-025	70.7
			TB202-2805-03.0-062	276
			TB203-2806-01.0-013	21.9
			TB203-2807-04.0-058	17.4
			TS203-2808-020	14.5

* Data qualifier included with concentration value

Table 4-61
Exposure Unit 13
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*	
Cadmium	mg/Kg	0.53	SB-CORE02-0.5-3733	0.765	*
			SS208-011	2	
			SS-EU132-3353	0.869	
			TB203-2807-04.0-058	0.621	BE
			TS203-2808-020	2.04	E
Calcium	mg/Kg	58900	SB-CORE02-0.5-3733	170000	*
			SS208-011	124000	
			SS-EU132-3353	74000	*
			TB202-2804-03.5-025	66500	E
Chromium	mg/Kg	25.8	SB-BH222-6.0-3664	39.7	*N
			SS208-011	63.5	
			SS217-021	29.4	*
			SS-EU132-3353	69.1	
			TB202-2803-05.2-038	27.5	
			TB202-2804-03.5-025	26.4	
			TB202-2805-03.0-062	28.6	
			TB203-2806-01.0-013	34.4	
			TB203-2807-04.0-058	26.4	
			TS203-2808-020	26.8	
Copper	mg/Kg	49.3	SB-CORE06-0.5-3741	49.6	E
			SS208-011	1050	
			SS-EU132-3353	84.1	
			TB202-2805-03.0-062	201	N
			TB203-2806-01.0-013	56.8	N
			TB203-2807-04.0-058	69.7	N
			TS203-2808-020	76	N
Iron	mg/Kg	36400	SB-CORE09-0.5-3747	52600	
Lead	mg/Kg	37.6	SB-CORE02-0.5-3733	78.5	*E
			SS208-011	142	
			SS217-021	58.8	*
			SS-EU132-3353	88.7	
			TB203-2806-01.0-013	76	*E
			TS203-2808-020	96.1	*E
Magnesium	mg/Kg	14800	SB-CORE02-0.5-3733	55300	*
			SS208-011	43700	
			SS-EU132-3353	36800	
Mercury	mg/Kg	0.27	SB-CORE01-0.5-3731	0.432	
			SS208-011	0.4	
			TB203-2806-01.0-013	1.31	*
Nickel	mg/Kg	38	SS208-011	348	
			TB203-2806-01.0-013	43	E

* Data qualifier included with concentration value

Table 4-61
Exposure Unit 13
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Potassium	mg/Kg	2860	SB213-097-7.5	3330 E
			SB-BH225-10.0-3667	3390 *
			SS208-011	6510
			SS-EU131-3352	3040 E
			TB202-2803-05.2-038	4650 E
			TB202-2804-03.5-025	3480 E
			TB202-2805-03.0-062	4740 E
			TB203-2806-01.0-013	3430 E
Selenium	mg/Kg	0.37	SB209-093-10	0.91 B
			SB213-097-3	0.72 BN
			SB213-097-7.5	0.76 BN
			SB-CORE04-0.5-3737	0.443 B
			SB-CORE05-0.5-3739	0.435 B
			SB-CORE06-0.5-3741	0.712 B
			SB-CORE07-0.5-3743	0.475 B
			SB-CORE08-0.5-3745	0.535 B
			SB-CORE10-0.5-3749	0.473 B
			SB-EU131-3408-2.0	0.878 B
			SS207-010	1.1 B
			SS208-011	0.65 B
			SS209-012	1
			SS213-017	0.91 BN
			SS217-021	1.1
			SS-EU131-3352	0.497 B
			SS-EU132-3353	0.869 B
			SS-EU133-3354	0.542 B
			SS-MW229-3617	1.13 N
			TB201-2800-05.0-036	0.582 BN
			TB201-2801-01.0-013	0.707 BN
			TB201-2802-01.0-001	0.534 BN
			TB202-2803-05.2-038	0.634 B
			TB202-2804-03.5-025	0.728 B
			TB202-2805-03.0-062	0.614 B
			TB203-2806-01.0-013	0.847 B
			TB203-2807-04.0-058	1.83
			TS203-2808-020	0.88 B
Sodium	mg/Kg	331	SB213-097-3	436 E
			SS208-011	1660
			TB202-2803-05.2-038	1780
			TB202-2804-03.5-025	406
			TB202-2805-03.0-062	954

* Data qualifier included with concentration value

Table 4-61
Exposure Unit 13
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SB209-093-10	0.11 B
			SB213-097-3	0.07 B
			SB213-097-7.5	0.09 B
			SB-BH222-6.0-3664	0.136
			SB-BH225-10.0-3667	0.132
			SB-CORE01-0.5-3731	0.098 B
			SB-CORE02-0.5-3733	0.089 B
			SB-CORE03-1.5-3735	0.061 B
			SB-CORE04-0.5-3737	0.112 B
			SB-CORE05-0.5-3739	0.121
			SB-CORE06-0.5-3741	0.149
			SB-CORE07-0.5-3743	0.09 B
			SB-CORE08-0.5-3745	0.11 B
			SB-CORE09-0.5-3747	0.102 B
			SB-CORE10-0.5-3749	0.124
			SB-EU131-3408-2.0	0.153
			SS207-010	0.12 B
			SS208-011	0.16
			SS209-012	0.1 B
			SS213-017	0.17
			SS217-021	0.14
			SS-EU131-3352	0.114 B
			SS-EU132-3353	0.145
			SS-EU133-3354	0.099 B
			SS-MW229-3617	0.136
			TB201-2800-05.0-036	0.17 E
			TB201-2801-01.0-013	0.174 E
			TB201-2802-01.0-001	0.144 E
			TB202-2803-05.2-038	0.165 E
			TB202-2804-03.5-025	0.176 E
			TB202-2805-03.0-062	0.218 E
			TB203-2806-01.0-013	0.242 E
			TB203-2807-04.0-058	0.26 E
			TS203-2808-020	0.189 E
Vanadium	mg/Kg	35.2	SS208-011	40.5
			TB202-2803-05.2-038	42.1 N
			TB202-2804-03.5-025	38.7 N
			TB202-2805-03.0-062	41.8 N
			TB203-2806-01.0-013	45.7 N
			TB203-2807-04.0-058	38 N

* Data qualifier included with concentration value

Table 4-61
Exposure Unit 13
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Zinc	mg/Kg	266	SB-CORE02-0.5-3733	290 *
			SS208-011	495
			SS217-021	270
			TB203-2806-01.0-013	766
			TS203-2808-020	2450
PAHs				
Anthracene	µg/Kg	8	SB-CORE01-0.5-3731	35.3 J
			SS201-001	60.4 J
			SS203-003	55.6 J
			TS203-2808-020	22.6 J
Benzo(a)anthracene	µg/Kg	284	SB-CORE09-0.5-3747	379
			SS201-001	323 J
Benzo(a)pyrene	µg/Kg	313	SB-CORE09-0.5-3747	385
			SS201-001	383 J
Benzo(b)fluoranthene	µg/Kg	396	SB-CORE09-0.5-3747	700 P
			SS201-001	446
Benzo(g,h,i)perylene	µg/Kg	16	SB-CORE09-0.5-3747	181
			SS201-001	215 J
			SS203-003	191 J
			SS208-011	40.4 J
Chrysene	µg/Kg	378	SS201-001	440
Fluoranthene	µg/Kg	889	SS201-001	892
Indeno(1,2,3-cd)pyrene	µg/Kg	8.8	SB-CORE01-0.5-3731	21.3 J
			SS201-001	182 J
			SS203-003	188 J
			SS208-011	30.6 J
Naphthalene	µg/Kg	--	SS201-001	343 J
			SS203-003	483
			SS208-011	23.2 J
			SS-EU131-3352	11.2 J
			TB201-2801-01.0-013	110
			TB201-2802-01.0-001	78.6
Phenanthrene	µg/Kg	538	SS201-001	642
Pyrene	µg/Kg	716	SS201-001	925
PCBs				
Aroclor-1254	µg/Kg	--	SB-CORE01-0.5-3731	441
			SB-CORE06-0.5-3741	29.6
			SB-CORE10-0.5-3749	5.8
			SS208-011	208
			SS217-021	77.7

* Data qualifier included with concentration value

Table 4-61
Exposure Unit 13
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aroclor-1260	µg/Kg	--	SB-CORE01-0.5-3731	50.8
			SB-CORE04-0.5-3737	5.7
			SB-CORE05-0.5-3739	2.8 J
			SB-CORE06-0.5-3741	11.7 J
			SB-CORE07-0.5-3743	26.4
			SB-CORE09-0.5-3747	4.8
			SB-CORE10-0.5-3749	4.2
			SS216-020	14.9
			SS217-021	84.5 P
Pesticides				
4,4'-DDE	µg/Kg	--	SB-BH225-10.0-3667	4.12
			SB-CORE02-0.5-3733	0.878 J
			SB-CORE03-1.5-3735	0.704 J
			SB-CORE04-0.5-3737	1.28 J
			SB-CORE06-0.5-3741	0.508 J
			SS-MW229-3617	0.43 J
4,4'-DDT	µg/Kg	--	SB-BH225-10.0-3667	3.6
			SB-CORE02-0.5-3733	8.58
			SB-CORE03-1.5-3735	1.69
			SB-CORE04-0.5-3737	1.79
			SB-CORE05-0.5-3739	2.46
			SB-CORE06-0.5-3741	1.19 J
			SB-CORE09-0.5-3747	3.44
			SS-MW229-3617	2.14
Endrin aldehyde	µg/Kg	--	SB-CORE02-0.5-3733	5.72
			SB-CORE03-1.5-3735	0.579 J
			TB202-2803-05.2-038	0.7 JP
Radionuclides				
Actinium-227	pCi/g	0.08	SS220-402	1.95
			SS221-403	9.3
Alpha	pCi/g	15.1	SB220-412-1.0	22.8
			SB221-413-2.0	23.7
			SS201-001	29.8
			SS203-003	121
			SS207-010	16.9
			SS208-011	19.1
			SS209-012	16.1
			SS211-015	34.1
			SS212-016	19.6
			SS213-017	16
			SS214-018	21.7
			SS216-020	22.8
			SS220-402	60.3
			SS221-403	3030

* Data qualifier included with concentration value

Table 4-61
Exposure Unit 13
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	28.9	SB220-412-1.0	30
			SS201-001	29.5
			SS203-003	70.1
			SS211-015	30.6
			SS212-016	32.9
			SS216-020	32
			SS220-402	50.4
			SS221-403	1180
Plutonium-239/240	pCi/g	--	SB-CORE01-0.5-3731	0.536
Radium-226	pCi/g	1.2	SB220-412-1.0	10.7
			SB221-413-2.0	1.48
			SS201-001	1.66
			SS203-003	1140
			SS207-010	1.53
			SS209-012	1.42
			SS210-014	1.66
			SS211-015	3.92
			SS212-016	1.71
			SS213-017	1.36
			SS216-020	1.52
			SS217-021	1.45
			SS220-402	33.4
			SS221-403	127
			SS2B004-536	1.47
			SS2B007-540	1.56
			TB203-2806-01.0-013	2.33
			TS203-2808-020	1.64
Thorium-228	pCi/g	1.64	SB220-412-1.0	2.1
			SB-BH225-10.0-3667	1.76
			SB-CORE09-0.5-3747	1.8
			TB202-2805-03.0-062	1.65

* Data qualifier included with concentration value

Table 4-61
Exposure Unit 13
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SB220-412-1.0	2.01
			SB221-413-2.0	2.38
			SS201-001	3.48
			SS203-003	6.48
			SS207-010	2.32
			SS208-011	1.79
			SS209-012	2.01
			SS210-014	2.01
			SS211-015	7.39
			SS212-016	2.88
			SS213-017	1.69
			SS214-018	1.54
			SS216-020	3.13
			SS217-021	2.17
			SS220-402	8.24
			SS221-403	978
			SS2B007-540	2.81
			SS-MW229-3617	1.61
			TB201-2802-01.0-001	1.52
			TB203-2806-01.0-013	4.63
			TS203-2808-020	3.68
Thorium-232	pCi/g	1.24	SB-CORE07-0.5-3743	1.26
			SS221-403	2.07
Total Uranium	μg/g	3.58	SB220-412-1.0	15.1
			SB221-413-2.0	4.48
			SS203-003	5.06
			SS207-010	3.96
			SS208-011	3.61
			SS220-402	21.1
			SS221-403	44.8
			SS2B004-536	9.69
			SS2B006-539	6.21
			SS2B007-540	4.44
			TB202-2803-05.2-038	3.61
			TB203-2806-01.0-013	4.23
			TB203-2807-04.0-058	13.1
			TB204-2916-08.0-030	3.73

* Data qualifier included with concentration value

Table 4-61
Exposure Unit 13
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.66	SB220-412-1.0	4.58
			SB-CORE06-0.5-3741	2.39
			SS220-402	8.43
			SS221-403	29.7
			SS2B004-536	2.08
			SS2B006-539	2.02
			SS2B007-540	2.41
			TB203-2807-04.0-058	4.02
Uranium-235	pCi/g	0.0847	SB-BH225-10.0-3667	0.099
			SB-CORE06-0.5-3741	0.324
			SS208-011	0.17 J
			SS220-402	0.452
			SS221-403	1.2
Uranium-238	pCi/g	1.34	SB220-412-1.0	4.36
			SB221-413-2.0	1.84
			SB-CORE06-0.5-3741	2.08
			SS201-001	1.37
			SS203-003	1.8
			SS207-010	2.15
			SS220-402	6.8
			SS221-403	26.2
			SS2B004-536	2.25
			SS2B006-539	2.26
			SS2B007-540	1.61
			TB203-2807-04.0-058	4.38
			TB204-2916-08.0-030	1.35
			TB204-2918-07.0-070	1.36
Semivolatile Organics				
2-Methylnaphthalene	μg/Kg	--	SS201-001	490
			SS203-003	819
			SS208-011	29 J
			SS216-020	25.4 J
			TB201-2801-01.0-013	152
			TB201-2802-01.0-001	103
Volatile Organics				
1,1-Dichloroethene	μg/Kg	--	SB-BH224-10.0-3666	1.54
			SB-CORE03-1.5-3735	1.14
			TB201-2800-05.0-036	0.85
2-Butanone	μg/Kg	--	SB-BH222-6.0-3664	6.98
			TB202-2805-03.0-062	8.2

* Data qualifier included with concentration value

Table 4-61
Exposure Unit 13
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Acetone	µg/Kg	--	SB-BH222-6.0-3664	31.3
			SB-BH224-10.0-3666	15.6
			SB-BH225-10.0-3667	5.61
			SB-CORE06-0.5-3741	7.94
			TB202-2805-03.0-062	59.9
			TB203-2806-01.0-013	10.3
			TB203-2807-04.0-058	11.3
			TS203-2808-020	9.8
cis-1,2-Dichloroethene	µg/Kg	--	SB201-085-10	999 D
			SB-BH224-10.0-3666	17.8
			SB-CORE04-0.5-3737	66.5 J
			SB-CORE06-0.5-3741	0.77 J
Methylene chloride	µg/Kg	--	SB209-093-10	4.1 J
			SS208-011	6.2
			SS210-014	15.2
			TB202-2805-03.0-062	1.6 J
			TB203-2807-04.0-058	1.7 J
			TS203-2808-020	1.3 J
Tetrachloroethene	µg/Kg	--	SB-BH224-10.0-3666	0.734 J
			SB-CORE01-0.5-3731	0.711 J
			SB-CORE02-0.5-3733	1.15
			SB-CORE04-0.5-3737	12.9
			SB-CORE08-0.5-3745	1.73
			SB-CORE09-0.5-3747	0.962
			SB-CORE10-0.5-3749	5.47
			SS216-020	2.7
			TB203-2806-01.0-013	13.1
			TS203-2808-020	14.3
Toluene	µg/Kg	--	SB201-085-10	2.5
			SB209-093-10	4.7
			SB-CORE02-0.5-3733	0.495 J
			SS201-001	3.7
			TB201-2800-05.0-036	0.44 J
			TB201-2801-01.0-013	0.58 J
			TB201-2802-01.0-001	0.62 J
			TB202-2805-03.0-062	0.58 J
			TB203-2806-01.0-013	0.34 J
			TB203-2807-04.0-058	0.61 J
			TS203-2808-020	0.39 J
trans-1,2-Dichloroethene	µg/Kg	--	SB201-085-10	5.4
			SB-BH224-10.0-3666	1 J
			SB-CORE04-0.5-3737	30.3

* Data qualifier included with concentration value

Table 4-61
Exposure Unit 13
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Trichloroethene	µg/Kg	--	SB201-085-10	6700 D
			SB-BH224-10.0-3666	2.85
			SB-CORE01-0.5-3731	2.22
			SB-CORE03-1.5-3735	3.35
			SB-CORE04-0.5-3737	227
			SB-CORE05-0.5-3739	0.437 J
			SB-CORE06-0.5-3741	2.09
			SB-CORE08-0.5-3745	1.09
			SB-CORE09-0.5-3747	0.459 J
			SB-CORE10-0.5-3749	1.78
			SS201-001	1 J
			TB203-2806-01.0-013	0.77 J

* Data qualifier included with concentration value

Table 4-62
Exposure Unit 14
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*	
Metals					
Aluminum	mg/Kg	19100	SB-BH223-3.0-3665	36900	*
			SS816-703	147000	
			TB205-2919-03.0-055	22800	
Antimony	mg/Kg	0.94	SB-BH223-3.0-3665	1.32	BN
			SS-EU143-3357	1.38	N
Barium	mg/Kg	263	SB-BH223-3.0-3665	378	*N
			SS816-703	2210	
Beryllium	mg/Kg	1	SB-BH223-3.0-3665	1.69	
			SS816-703	28	
			TB205-2919-03.0-055	1.09	
Boron	mg/Kg	10.1	SB202-086-10	167	
			SB-BH223-3.0-3665	1580	N*
			SS202-002	283	
			SS2B003-535	24.2	
			SS816-703	361	
			TB205-2919-03.0-055	543	
			TB205-2920-06.5-060	140	
			TB205-2921-08.0-001	73.4	
Cadmium	mg/Kg	0.53	SB804-157-7.5	0.74	
			SB-BH223-3.0-3665	1.04	*
			SS804-073	0.58	B
			SS816-703	0.588	B
Calcium	mg/Kg	58900	SS816-703	240000	
			TB205-2920-06.5-060	63300	
Chromium	mg/Kg	25.8	SB202-086-10	28.8	
			SB-BH223-3.0-3665	38	*N
			SS816-703	37.9	
			TB205-2919-03.0-055	28.4	
Copper	mg/Kg	49.3	SB-BH223-3.0-3665	94.7	*N
			SS816-703	58.3	
Lead	mg/Kg	37.6	SS2B003-535	67.8	
Lithium	mg/Kg	36.8	SB-BH223-3.0-3665	46.8	NE
Magnesium	mg/Kg	14800	SS816-703	232000	
Potassium	mg/Kg	2860	SB202-086-10	3190	
			SB-BH223-3.0-3665	4670	*
			SS816-703	12200	

* Data qualifier included with concentration value

Table 4-62
Exposure Unit 14
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SB202-086-10	0.72 B
			SB803-156-7.5	1.2
			SB-BH223-3.0-3665	1.13 BN
			SS202-002	0.64 B
			SS2B003-535	1.44 B
			SS803-072	1.3
			SS804-073	1.3
			SS816-703	5.25
			SS-EU141-3355	0.744 B
			SS-EU142-3356	0.934 B
			SS-EU143-3357	0.791 B
			TB205-2919-03.0-055	0.461 B
			TB205-2920-06.5-060	0.722 B
			TB205-2921-08.0-001	0.513 B
Silver	mg/Kg	0.27	SS2B003-535	0.404 BN
Sodium	mg/Kg	331	SB202-086-10	344
			SB-BH223-3.0-3665	6950 N
			SS202-002	678
			SS816-703	4690
			TB205-2919-03.0-055	2160
Thallium	mg/Kg	--	SB202-086-10	0.2
			SB803-156-7.5	0.14
			SB804-157-7.5	0.16
			SB-BH223-3.0-3665	0.31
			SS202-002	0.11 B
			SS2B003-535	0.262 B
			SS803-072	0.12 B
			SS804-073	0.15
			SS816-703	0.032 B
			SS-EU141-3355	0.11
			SS-EU142-3356	0.123
			SS-EU143-3357	0.133
			TB205-2919-03.0-055	0.153
			TB205-2920-06.5-060	0.071 B
			TB205-2921-08.0-001	0.049 B
Vanadium	mg/Kg	35.2	SB202-086-10	35.4
			SB-BH223-3.0-3665	65.9 *N
			SS816-703	35.7
			TB205-2919-03.0-055	50.8
Zinc	mg/Kg	266	SS816-703	403
PAHs				
Naphthalene	µg/Kg	--	SS2B003-535	1410 J
Pesticides				
4,4'-DDT	µg/Kg	--	SB-BH223-3.0-3665	0.936 J

* Data qualifier included with concentration value

Table 4-62
Exposure Unit 14
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radionuclides				
Actinium-227	pCi/g	0.08	SS816-703	5.11
			SS8B001-2430	1 J
Alpha	pCi/g	15.1	SB803-156-7.5	20.3
			SB804-157-7.5	15.8
			SB-BH223-3.0-3665	21.8
			SS804-073	22.1
Beta	pCi/g	28.9	SB202-086-10	34.4
			SB803-156-7.5	40.7
Cesium-137	pCi/g	0.343	SB804-157-7.5	0.473 J
			SS2B003-535	0.542
			SS2D006-552	0.646
			SS2D008-554	0.433
			SS817-704	1.27
			SS818-705	0.469
			SS8B003-2433	0.357
			SS8B006-2436	0.452
Radium-226	pCi/g	1.2	SB804-157-7.5	1.31
			SB-BH223-3.0-3665	1.24
			SS2B003-535	1.81
			SS2B008-541	1.47
			SS2B014-2374	126
			SS2D006-552	1.57
			SS2D007-553	1.83
			SS2D008-554	1.46
			SS815-702	3.07
			SS816-703	299
			SS817-704	2.72
			SS818-705	1.66
			SS8B001-2430	16.8 J
			SS8B003-2433	1.21
			SS8B006-2436	1.33

* Data qualifier included with concentration value

Table 4-62
Exposure Unit 14
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SB-BH223-3.0-3665	1.49
			SS2B003-535	3.94
			SS2B008-541	2.76
			SS2B009-542	1.99
			SS2B010-543	1.46
			SS2B014-2374	4.3
			SS2D006-552	1.91
			SS2D007-553	1.64
			SS2D008-554	2.84
			SS815-702	4.47
			SS816-703	3.39
			SS818-705	1.8
			SS8B001-2430	4.11 J
			SS8B003-2433	1.44
			SS8B005-2435	1.78
			SS8B006-2436	2.71
			SS8B007-2437	2.01
			SS-EU141-3355	1.57
Total Uranium	µg/g	3.58	SS202-002	6.34
			SS2B003-535	9.59
			SS2B008-541	5.62
			SS2B011-544	3.89
			SS2B014-2374	9.96
			SS2B015-2376	3.93
			SS2B016-2377	4.01
			SS2D010-2382	4.6
			SS804-073	4.41 J
			SS815-702	9.23
			SS816-703	8.94
			SS817-704	4.79
			SS818-705	5.52
			SS8B005-2435	4.07
			SS8B007-2437	9.69
			SS-EU141-3355	5.73
			TB205-2919-03.0-055	4.36

* Data qualifier included with concentration value

Table 4-62
Exposure Unit 14
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.66	SB-BH223-3.0-3665	5.6
			SS202-002	1.93
			SS2B003-535	4.44
			SS2B010-543	1.9
			SS2B014-2374	3.68
			SS2D006-552	1.76
			SS804-073	2.11
			SS815-702	3.71
			SS816-703	2.28
			SS817-704	2.07
			SS818-705	2.63
			SS8B007-2437	4.02
			SS-EU141-3355	2.38
Uranium-235	pCi/g	0.0847	SB8B002-2432-2.0	0.12
			SB-BH223-3.0-3665	0.898
			SS202-002	0.14 J
			SS2B014-2374	0.321
			SS815-702	0.243
			SS817-704	0.132
			SS8B001-2430	0.107 J
			SS8B007-2437	0.234
			SS-EU141-3355	0.224
			TB205-2919-03.0-055	0.0962
Uranium-238	pCi/g	1.34	SB-BH223-3.0-3665	3.44
			SS202-002	1.91
			SS2B003-535	2.23
			SS2B008-541	1.42
			SS2B014-2374	3.82
			SS2B016-2377	1.52
			SS804-073	1.79
			SS815-702	3.13
			SS816-703	2.78
			SS817-704	1.77
			SS818-705	1.84
			SS8B007-2437	3.7
			SS-EU141-3355	1.75
Semivolatile Organics				
2-Methylnaphthalene	μg/Kg	--	SS2B003-535	2080
Di-n-octylphthalate	μg/Kg	--	SS2B008-541	506
m,p-Cresols	μg/Kg	--	SB-BH223-3.0-3665	51.9 J
Volatile Organics				
1,1-Dichloroethene	μg/Kg	--	TB205-2921-08.0-001	1
2-Butanone	μg/Kg	--	SB-BH223-3.0-3665	54.9

* Data qualifier included with concentration value

Table 4-62
Exposure Unit 14
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Acetone	µg/Kg	--	SB202-086-10	2.2 J
			SB-BH223-3.0-3665	234
			TB205-2919-03.0-055	36.3
			TB205-2920-06.5-060	27.3
			TB205-2921-08.0-001	13
Carbon disulfide	µg/Kg	--	SB-BH223-3.0-3665	4.21 J
Tetrachloroethene	µg/Kg	--	TB205-2919-03.0-055	0.83 J
Toluene	µg/Kg	--	SB-BH223-3.0-3665	1.35
			TB205-2919-03.0-055	0.65 J
Trichloroethene	µg/Kg	--	TB205-2919-03.0-055	0.56 J

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aluminum	mg/Kg	19100	SB414-135-21	23300
			SB903-2085-2.0	19800
			SB-BH218-15.0-3660	20900
			SB-BH219-6.0-3661	20500
			SB-BH220-20.0-3662	20800
			SB-BH223-3.0-3665	36900 *
			SB-DRUM01-3370-1.0	24600 E*
			SB-DRUM06-3396-1.0	19600
			SB-EU081-3318-1.5	20000 E*
			SB-EU101-3400-1.0	21600
			SB-EU102-3323-2.0	22200
			SB-EU111-3325-1.5	22000
			SB-MW228-11.0-3615	23200
			SB-MW229-11.0-3614	23200
			SB-MW314-15.0-3594	22600 *
			SB-OTFL11-13.0-3658	25000
			SB-TWP835-15.0-3516	19200 *
			SB-TWP846-16.0-3549	19400
			SB-TWP847-10.0-3552	23100
			SB-TWP848-11.0-3555	19500
			SB-TWP849-11.0-3558	19400
			SD701-293	20600
			SD725-353	20600
			SS402-039	40100
			SS418-055	21800
			SS4A012-611	24400
			SS816-703	147000
			SS903-2083	24300
			SS-DRUM01-3369	38400 *
			SS-DRUM05-3381	20100 J
			SS-EU051-3334	32400 E*
			SS-EU111-3346	19800
			SS-EU112-3347	22900
			SS-EU121-3349	23200
			SS-EU122-3350	19900
			SS-TWP844-3542	20600
			SS-TWP845-3545	19900
			SS-TWP847-3551	21100
			SS-TWP848-3554	22700
			SS-TWP849-3557	19700
			SS-TWP851-3563	21900 *
			SS-TWP852-3566	19500
			SS-TWP854-3572	19900
			TB202-2803-05.2-038	21900

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aluminum	mg/Kg	19100	TB202-2804-03.5-025	20800
			TB202-2805-03.0-062	21400
			TB203-2806-01.0-013	24100
			TB203-2807-04.0-058	22400
			TB205-2919-03.0-055	22800
			TB302-2813-01.0-042	21800
			TB406-2827-02.0-027	57400
			TB406-2828-01.0-010	22700
			TB408-2829-02.7-005	25400
			TB501-2847-01.5-130	19600
			TB810-2907-02.9-012	19500 *
			TB811-2911-02.3-012	20900 *
			TB811-2912-04.0-047	19800 *
			TB812-2913-03.0-055	23600
			TB812-2915-05.0-001	21300

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Antimony	mg/Kg	0.94	C5-SO-SO-D800-1	1.1 J
			SB-BH219-6.0-3661	0.981 BN
			SB-BH221-15.0-3663	1.41 BN
			SB-BH223-3.0-3665	1.32 BN
			SB-BH225-10.0-3667	1.15 BN
			SB-DRUM04-3379-1.0	1.33 N
			SB-DRUM05-3382-1.0	1.05 BN
			SB-EU011-3300-2.0	1.04 BN
			SB-EU013-3302-1.0	0.993 BN
			SB-EU022-3306-2.0	1.22 N
			SB-EU032-3309-1.0	0.974 BN
			SB-EU042-3311-1.0	1.04 BN
			SB-EU051-3312-1.0	1.04 BN
			SB-EU062-3315-2.0	1.1 BN
			SB-EU071-3316-2.0	1.1 BN
			SB-EU131-3408-2.0	0.98 BN
			SB-MW228-11.0-3615	1.63 BN*
			SB-MW424-14.0-3621	1.63 BN
			SB-MW860-15.0-3597	1.41 BN
			SB-MW861-34.5-3596	2.88 BN
			SB-MW862-11.5-3603	1.92 BN
			SB-OTFL12-13.5-3659	1.08 BN
			SB-TWP831-15.0-3504	1.65 BN
			SB-TWP832-12.5-3507	1.54 N
			SB-TWP835-15.0-3516	2.19 BN
			SB-TWP836-15.0-3519	1.64 BN
			SB-TWP837-19.0-3522	1.96 BN*
			SB-TWP839-14.0-3528	1.49 BN
			SB-TWP845-13.0-3546	2.57 BN*
			SB-TWP847-10.0-3552	1 J
			SB-TWP848-11.0-3555	3.24 N
			SB-TWP849-11.0-3558	2.6 BN*
			SB-TWP850-17.0-3561	1.9 BN
			SB-TWP851-18.0-3564	3 J
			SB-TWP852-15.0-3567	1 BN
			SB-TWP856-11.0-3579	1.34 BN
			SS208-011	2.2 N
			SS-DRUM01-3369	1.83 N
			SS-DRUM02-3372	3.57 N
			SS-DRUM04-3378	1.54 N
			SS-DRUM05-3381	2 J
			SS-EU021-3328	1.15 N
			SS-EU022-3329	1.13 BN
			SS-EU071-3337	1.1 BN

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Antimony	mg/Kg	0.94	SS-EU133-3354	1.3 N
			SS-EU143-3357	1.38 N
			SS-MW861-3599	0.951 BN
			SS-MW862-3602	2.59 BN*
			SS-MW863-3605	3.92 J
			SS-TWP834-3512	1.34 N
			SS-TWP837-3521	1.52 BN
			SS-TWP839-3527	1.01 BN
			SS-TWP844-3542	2.09 BN*
			SS-TWP845-3545	1.79 BN*
			SS-TWP846-3548	1.08 BN*
			SS-TWP848-3554	2.3 BN
			SS-TWP849-3557	1.81 BN
			SS-TWP850-3560	2.35 BN
			SS-TWP851-3563	1.39 BN
			SS-TWP857-3581	1.87 BN
Arsenic	mg/Kg	8.73	SB816-733-12.0	20.6
			SB-CORE01-0.5-3731	10.7
			SD732-370	11.7
			SS204-004	22.5
			SS217-021	11.2
			SS2B001-532	9.03 N
			SS2B002-534	51.8 N
			SS2B003-535	9.32 N
			SS504-692	8.81 N
			SS-DRUM02-3372	17.2 N
			SS-DRUM04-3378	13.8 N
			SS-EU031-3330	11 *
			TB205-2920-06.5-060	9.3
Barium	mg/Kg	263	C5-VS-SO-B300-1	279 J
			SB-BH223-3.0-3665	378 *N
			SB-EU022-3306-2.0	290 N*
			SS402-039	481
			SS816-703	2210
			SS-DRUM04-3378	2670 N*
			SS-EU051-3334	441 *
			SS-EU121-3349	301 N*
			TB202-2805-03.0-062	315
			TB406-2827-02.0-027	325
			TB408-2831-04.7-054	264

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beryllium	mg/Kg	1	SB414-135-21	1.2
			SB816-733-12.0	1.06
			SB-BH220-20.0-3662	1.03 B
			SB-BH223-3.0-3665	1.69
			SB-DRUM01-3370-1.0	1.5 E*
			SB-DRUM06-3396-1.0	1.31
			SB-EU051-3312-1.0	1.3
			SB-EU101-3400-1.0	1.1
			SB-EU102-3323-2.0	1.14
			SB-EU111-3325-1.5	1.01
			SB-EU121-3326-2.0	1.03
			SB-EU122-3407-1.0	1.03
			SB-MW228-11.0-3615	1.09 B
			SB-MW229-11.0-3614	1.11
			SB-MW314-15.0-3594	1.07
			SB-OTFL11-13.0-3658	1.12 B
			SB-TWP847-10.0-3552	1.02 J
			SD701-293	1.1
			SD704-302	1.8 E
			SD725-353	1.1 B
			SS2B001-532	1.03
			SS2B002-534	1.79
			SS308-032	1.6
			SS402-039	5.2
			SS4A012-611	2.38
			SS816-703	28
			SS903-2083	1.15
			SS-DRUM01-3369	3.42
			SS-EU051-3334	7.7 E*
			SS-EU112-3347	1.2
			SS-EU121-3349	1.49
			SS-EU122-3350	1.1
			SS-TWP848-3554	1.24 B
			SS-TWP852-3566	1.04 B
			TB202-2805-03.0-062	1.04
			TB203-2806-01.0-013	1.13
			TB203-2807-04.0-058	1.25
			TB205-2919-03.0-055	1.09
			TB406-2827-02.0-027	2.2
			TB408-2829-02.7-005	1.29
			TB812-2913-03.0-055	1.14

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Boron	mg/Kg	10.1	SB202-086-10	167
			SB208-092-12	11.1
			SB213-097-12.5	14.8 N
			SB213-097-3	17 N
			SB213-097-7.5	15.4 N
			SB215-099-7.5	27.9 *
			SB406-123-18	11.1
			SB411-129-20	12.3
			SB414-135-21	16
			SB418-140-19	12.1
			SB502-145-13	12.5
			SB805-158-7.5	11.5
			SB811-164-23	11
			SB816-733-12.0	11.1
			SB902-2082-2.0	12.2
			SB903-2085-2.0	13.7
			SB904-2088-3.0	10.4
			SB905-2090-2.0	14.7
			SB-BH218-15.0-3660	16.9 B
			SB-BH219-6.0-3661	11
			SB-BH220-20.0-3662	19.6
			SB-BH221-15.0-3663	15.3 B
			SB-BH222-6.0-3664	15.8 N*
			SB-BH223-3.0-3665	1580 N*
			SB-BH225-10.0-3667	26.2 N*
			SB-BH226-12.0-3668	23.5
			SB-BH227-15.0-3669	22.3
			SB-CORE03-1.5-3735	57.9
			SB-CORE04-0.5-3737	35.3
			SB-CORE05-0.5-3739	16.8
			SB-CORE06-0.5-3741	10.5
			SB-CORE07-0.5-3743	13.5
			SB-CORE08-0.5-3745	24.5
			SB-CORE09-0.5-3747	14.3
			SB-CORE10-0.5-3749	14.4
			SB-DRUM01-3370-1.0	40.5 E*N
			SB-DRUM05-3382-1.0	24.9 *N
			SB-DRUM06-3396-1.0	25.5 N
			SB-DRUM07-3399-1.0	10.5 N
			SB-EU032-3309-1.0	10.6
			SB-EU051-3312-1.0	17.6 *N
			SB-EU081-3318-1.5	36.2 E*N
			SB-EU082-3319-1.5	15.1 N
			SB-EU093-3322-2.0	12.6 E*N

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Boron	mg/Kg	10.1	SB-EU101-3400-1.0	15.8 N
			SB-EU102-3323-2.0	10.3 N
			SB-EU111-3325-1.5	11.6 N
			SB-EU121-3326-2.0	15.9 N
			SB-EU122-3407-1.0	11.3 J
			SB-EU131-3408-2.0	10.7
			SB-MW228-11.0-3615	30.9 N
			SB-MW229-11.0-3614	51.5
			SB-MW313-11.0-3591	14 N
			SB-MW314-15.0-3594	20.2 N
			SB-MW422-15.0-3609	13.2 N
			SB-MW423-15.0-3612	15.1 N
			SB-MW862-11.5-3603	13.1 B
			SB-OTFL11-13.0-3658	19.8
			SB-OTFL12-13.5-3659	14.9
			SB-TWP830-15.0-3501	13.7 N*
			SB-TWP832-12.5-3507	16.8 N*
			SB-TWP834-14.0-3513	15.4
			SB-TWP835-15.0-3516	14.1 B
			SB-TWP836-15.0-3519	13.3 B
			SB-TWP837-19.0-3522	13 BN
			SB-TWP838-14.0-3525	16.3
			SB-TWP839-14.0-3528	15
			SB-TWP840-12.0-3531	14.5
			SB-TWP841-10.0-3534	14.6 N
			SB-TWP843-10.0-3540	15.7
			SB-TWP846-16.0-3549	14.3 BN
			SB-TWP847-10.0-3552	15.1 J
			SB-TWP848-11.0-3555	15.2 B
			SB-TWP849-11.0-3558	13.7 N
			SB-TWP851-18.0-3564	10.2 J
			SB-TWP853-16.5-3570	15.5
			SB-TWP854-13.0-3573	14.9 B
			SB-TWP859-18.0-3588	16.4
			SD704-302	20 *
			SD713-324	10.5 *
			SD725-353	16
			SS202-002	283
			SS204-004	21
			SS208-011	33.2
			SS213-017	15.4 N
			SS215-019	27.7 *
			SS2B001-532	23.6
			SS2B002-534	37.6

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Boron	mg/Kg	10.1	SS2B003-535	24.2
			SS311-035	10.8
			SS402-039	147
			SS410-047	15.5
			SS415-052	10.5
			SS418-055	97.1
			SS419-056	17.1 *
			SS4A012-611	10.2
			SS504-692	10.9
			SS816-703	361
			SS904-2087	14.9
			SS905-2089	10.9
			SS906-2091	11.2
			SS907-2093	10.2
			SS908-2095	12.1
			SS909-2097	10.4 *
			SS910-2099	12.6 *
			SS-DRUM01-3369	85.8
			SS-DRUM02-3372	280
			SS-DRUM04-3378	12
			SS-DRUM05-3381	313 J
			SS-DRUM06-3395	23.4 N
			SS-DRUM07-3398	23.5 N
			SS-EU051-3334	88.2 E*N
			SS-EU081-3339	16.5 E*N
			SS-EU101-3343	11.7 N
			SS-EU102-3344	12.5 N
			SS-EU112-3347	12.4 N
			SS-EU113-3348	14.8
			SS-EU121-3349	12.8 N
			SS-EU131-3352	10.5 N
			SS-EU132-3353	21.4
			SS-EU133-3354	10.2
			SS-MW229-3617	57.6
			SS-MW313-3590	14.4 N
			SS-MW422-3608	11.8 N
			SS-MW423-3611	12.6 N
			SS-TWP831-3503	12.1 B
			SS-TWP832-3506	11.4 N*
			SS-TWP833-3509	12.8
			SS-TWP834-3512	12.9
			SS-TWP838-3524	12.1 B
			SS-TWP840-3530	10.5
			SS-TWP841-3533	10.2 N

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Boron	mg/Kg	10.1	SS-TWP842-3536	12.3
			SS-TWP847-3551	10.3 BN
			SS-TWP848-3554	12.8 B
			SS-TWP850-3560	11.3 B
			SS-TWP852-3566	14.4 B
			SS-TWP854-3572	13.6 B
			SS-TWP855-3575	11.8 B
			SS-TWP858-3584	13.6
			SS-TWP859-3587	12.8
			TB202-2803-05.2-038	343
			TB202-2804-03.5-025	70.7
			TB202-2805-03.0-062	276
			TB203-2806-01.0-013	21.9
			TB203-2807-04.0-058	17.4
			TB205-2919-03.0-055	543
			TB205-2920-06.5-060	140
			TB205-2921-08.0-001	73.4
			TB302-2813-01.0-042	12.2
			TB403-2821-04.0-008	12.1
			TB403-2823-08.0-045	15
			TB406-2826-07.0-043	19.3
			TB406-2827-02.0-027	477
			TB406-2828-01.0-010	240
			TB408-2829-02.7-005	19
			TB408-2830-03.9-021	16.1
			TB408-2831-04.7-054	15.2
			TB802A-2903-03.8-096	12.3
			TB810-2907-02.9-012	11.2
			TB810-2908-01.8-041	13.4
			TB811-2911-02.3-012	11.5
			TB811-2912-04.0-047	14
			TB812-2915-05.0-001	14.3
			TS203-2808-020	14.5

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cadmium	mg/Kg	0.53	SB215-099-7.5	0.93
			SB304-106-9	0.73
			SB306-111-12.5	0.63
			SB307-112-10	0.6
			SB310-115-8.5	0.65
			SB414-135-21	2
			SB416-137-21	0.6
			SB418-140-19	0.55
			SB419-141-17	0.66
			SB421-143-16	0.69
			SB423-719-10.0	0.691
			SB601-150-13	0.93
			SB607-728-17.0	0.665
			SB804-157-7.5	0.74
			SB811-164-23	0.76
			SB825-742-9.5	0.99
			SB-BH223-3.0-3665	1.04 *
			SB-CORE02-0.5-3733	0.765 *
			SB-EU042-3311-1.0	0.613
			SD704-302	0.95
			SD712-319	0.68
			SD713-324	1.1
			SD723-349	1.2
			SD731-368	0.73
			SD732-370	0.86
			SD733-373	0.69 B
			SS208-011	2
			SS215-019	0.7
			SS304-028	0.87
			SS306-030	0.68
			SS308-032	0.56 B
			SS311-035	0.65 B
			SS414-051	0.58 B
			SS416-053	0.61
			SS419-056	0.67
			SS421-058	0.91
			SS4A012-611	0.964
			SS4C001-618	0.534 B
			SS605-697	0.751
			SS804-073	0.58 B
			SS816-703	0.588 B
			SS825-713	0.744
			SS-DRUM02-3372	0.624 B
			SS-DRUM05-3381	0.559 J

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cadmium	mg/Kg	0.53	SS-EU121-3349	1.29
			SS-EU132-3353	0.869
			SS-MW863-3605	0.623 J
			TB203-2807-04.0-058	0.621 BE
			TB301-2811-01.0-029	1.04
			TB406-2827-02.0-027	0.932 E
			TS203-2808-020	2.04 E
Calcium	mg/Kg	58900	C5-SO-SO-D800-10	60800
			SB414-135-21	98400
			SB417-138-3	69800
			SB825-742-9.5	60300
			SB-CORE02-0.5-3733	170000 *
			SB-EU051-3312-1.0	60400
			SB-MW863-32.0-3606	82200
			SB-OTFL11-13.0-3658	69200
			SB-TWP837-19.0-3522	63300 *
			SB-TWP844-11.0-3543	71700 *
			SB-TWP847-10.0-3552	64700 J
			SB-TWP850-17.0-3561	60100
			SS208-011	124000
			SS308-032	99000
			SS311-035	90600
			SS402-039	238000 *
			SS412-049	93600 E
			SS4A012-611	88100
			SS816-703	240000
			SS910-2099	62100 *
			SS-EU051-3334	179000 *
			SS-EU132-3353	74000 *
			SS-MW313-3590	70600 *
			SS-TWP830-3500	104000 *
			SS-TWP843-3539	64500
			SS-TWP853-3569	110000
			SS-TWP859-3587	86900
			TB202-2804-03.5-025	66500 E
			TB205-2920-06.5-060	63300
			TB408-2830-03.9-021	76400 E
			TB408-2831-04.7-054	62700 E
			TB810-2908-01.8-041	74900
			TB812-2915-05.0-001	62600

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Chromium	mg/Kg	25.8	SB202-086-10	28.8
			SB206-090-9	28.2
			SB208-092-12	27.9
			SB213-097-12.5	27.4
			SB411-129-20	26.2 *
			SB414-135-21	35.3
			SB415-136-12.5	26.1 *
			SB418-140-19	61.7 *
			SB502-145-13	27.6 *
			SB816-733-12.0	27.1
			SB-BH218-15.0-3660	29.8
			SB-BH219-6.0-3661	26.5
			SB-BH220-20.0-3662	30.1
			SB-BH221-15.0-3663	26.8
			SB-BH222-6.0-3664	39.7 *N
			SB-BH223-3.0-3665	38 *N
			SB-DRUM01-3370-1.0	31.5 *N
			SB-EU071-3316-2.0	28.1 *N
			SB-EU081-3318-1.5	27.3 *N
			SB-EU101-3400-1.0	31.9
			SB-EU102-3323-2.0	30.6
			SB-EU111-3325-1.5	28
			SB-EU121-3326-2.0	27.1
			SB-EU122-3407-1.0	26.6
			SB-MW228-11.0-3615	31.5
			SB-MW229-11.0-3614	28.6
			SB-MW314-15.0-3594	26.7
			SB-OTFL11-13.0-3658	36.2
			SB-OTFL12-13.5-3659	27.2
			SB-TWP832-12.5-3507	27.8 *N
			SB-TWP835-15.0-3516	27.7
			SB-TWP846-16.0-3549	26.7
			SB-TWP847-10.0-3552	32.4
			SB-TWP848-11.0-3555	28.3
			SB-TWP849-11.0-3558	26.8
			SB-TWP853-16.5-3570	26.1
			SB-TWP854-13.0-3573	27.3
			SD701-293	26.8
			SD723-349	26.6 E
			SD725-353	42.4
			SS208-011	63.5
			SS217-021	29.4 *
			SS401-037	26.1
			SS407-044	36.8 E

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Chromium	mg/Kg	25.8	SS417-054	196
			SS418-055	26.7 *
			SS4A012-611	67
			SS816-703	37.9
			SS903-2083	28.9
			SS-DRUM01-3369	29.4 *
			SS-DRUM02-3372	37.9 *
			SS-DRUM04-3378	88.7 *
			SS-DRUM05-3381	49.4 J
			SS-EU021-3328	30.9 *
			SS-EU051-3334	30.1 *N
			SS-EU112-3347	28.7
			SS-EU121-3349	28.1
			SS-EU122-3350	27.6
			SS-EU132-3353	69.1
			SS-TWP847-3551	30.4
			SS-TWP848-3554	62.1
			SS-TWP849-3557	26.5
			SS-TWP851-3563	26.4
			SS-TWP852-3566	27.9
			SS-TWP854-3572	26.8
			TB202-2803-05.2-038	27.5
			TB202-2804-03.5-025	26.4
			TB202-2805-03.0-062	28.6
			TB203-2806-01.0-013	34.4
			TB203-2807-04.0-058	26.4
			TB205-2919-03.0-055	28.4
			TB301-2811-01.0-029	38.2
			TB302-2813-01.0-042	26.2
			TB406-2827-02.0-027	37
			TB408-2829-02.7-005	30.9
			TB812-2913-03.0-055	30.6
			TB812-2915-05.0-001	27.3
			TS203-2808-020	26.8

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Copper	mg/Kg	49.3	SB303-105-8	134
			SB414-135-21	63.3
			SB418-140-19	61.9
			SB-BH223-3.0-3665	94.7 *N
			SB-CORE06-0.5-3741	49.6 E
			SB-DRUM04-3379-1.0	55 *N
			SB-DRUM06-3396-1.0	91.6
			SB-EU012-3301-1.0	56.7 *N
			SB-EU014-3303-1.0	146 *N
			SB-EU091-3320-2.0	53.3 J
			SD725-353	59.2
			SS208-011	1050
			SS308-032	52.3
			SS404-041	55 N
			SS410-047	51
			SS413-050	75.4
			SS418-055	50.1
			SS4A012-611	57.6
			SS4D007-621	50.3
			SS813-700	54 E*
			SS816-703	58.3
			SS-DRUM02-3372	159 *N
			SS-DRUM04-3378	76.2 *N
			SS-DRUM05-3381	590 J
			SS-DRUM06-3395	270
			SS-EU051-3334	58.1 E*N
			SS-EU121-3349	99.8
			SS-EU132-3353	84.1
			SS-MW313-3590	129 *
			TB202-2805-03.0-062	201 N
			TB203-2806-01.0-013	56.8 N
			TB203-2807-04.0-058	69.7 N
			TB301-2810-01.5-003	69.5
			TB301-2811-01.0-029	65.8
			TB406-2827-02.0-027	87.1 N
			TS203-2808-020	76 N

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Iron	mg/Kg	36400	SB414-135-21	42800
			SB816-733-12.0	44000
			SB-CORE09-0.5-3747	52600
			SB-DRUM04-3379-1.0	36700 *
			SB-EU102-3323-2.0	36900
			SB-EU121-3326-2.0	38000
			SB-EU122-3407-1.0	37200
			SD701-293	38800
			SD725-353	37300
			SS2B002-534	39000
			SS403-040	39500
			SS-DRUM02-3372	105000 *
			SS-DRUM04-3378	50400 *
			SS-DRUM05-3381	154000 J
			TB301-2810-01.5-003	39300
			TB408-2829-02.7-005	37100
			TB501-2847-01.5-130	36500
			TB501-2848-03.0-095	36900
			TB812-2913-03.0-055	37700

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Lead	mg/Kg	37.6	C5-SO-SO-D800-1	76.9 *
			SB801-154-18	50.5
			SB-CORE02-0.5-3733	78.5 *E
			SB-EU042-3311-1.0	598 *
			SD732-370	47.3
			SD734-375	38.9
			SS208-011	142
			SS217-021	58.8 *
			SS2B003-535	67.8
			SS303-027	39.9
			SS308-032	99.8 N
			SS311-035	72 *
			SS403-040	588
			SS404-041	48.8
			SS406-043	42.8
			SS409-046	70.2
			SS413-050	686
			SS414-051	53.1
			SS415-052	41.4
			SS417-054	48.8
			SS418-055	38.1
			SS4A008-606	38.3
			SS4A010-608	96.6
			SS4A012-611	67.8
			SS4B003-614	49.7
			SS4C001-618	140
			SS4D005-619	54.7
			SS4D007-621	39.2
			SS504-692	37.7 *E
			SS906-2091	47.5 E
			SS-DRUM01-3369	38 *
			SS-DRUM02-3372	391 *
			SS-DRUM04-3378	149 *
			SS-DRUM07-3398	64.8
			SS-EU132-3353	88.7
			SS-MW423-3611	53.7 *
			TB203-2806-01.0-013	76 *E
			TB301-2810-01.5-003	42.8
			TB301-2811-01.0-029	205
			TS203-2808-020	96.1 *E

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Lithium	mg/Kg	36.8	C5-SO-SO-D200-8	37.3
			SB402-119-23	106
			SB411-129-20	38.9 EN
			SB-BH218-15.0-3660	37.6 E
			SB-BH220-20.0-3662	37.3 E
			SB-BH223-3.0-3665	46.8 NE
			SB-MW228-11.0-3615	41.6 E
			SB-MW314-15.0-3594	40.9
			SB-OTFL11-13.0-3658	39.4 N
			SB-TWP847-10.0-3552	38.6 J
			SD725-353	40.5
			SS808-077	103
			SS-EU051-3334	37.2
			SS-TWP848-3554	38.9 E
			TB408-2829-02.7-005	40.4
			TB812-2913-03.0-055	51.3

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Magnesium	mg/Kg	14800	SB208-092-12	15100
			SB414-135-21	22600
			SB417-138-3	14900
			SB-CORE02-0.5-3733	55300 *
			SB-MW228-11.0-3615	15200
			SB-OTFL11-13.0-3658	17200
			SB-TWP834-14.0-3513	15000
			SB-TWP837-19.0-3522	19100
			SB-TWP848-11.0-3555	16600 *
			SB-TWP850-17.0-3561	18300
			SD702-295	22100
			SS208-011	43700
			SS308-032	49300
			SS311-035	54400
			SS406-043	29500
			SS412-049	17900
			SS4A012-611	44400
			SS816-703	232000
			SS910-2099	25900 *
			SS-EU072-3338	15400 *
			SS-EU132-3353	36800
			SS-MW313-3590	38200 *
			SS-TWP830-3500	56300 *
			SS-TWP834-3512	15100
			SS-TWP836-3518	22800
			SS-TWP853-3569	46700
			SS-TWP854-3572	16700
			SS-TWP859-3587	45800
			TB301-2811-01.0-029	25300
			TB810-2908-01.8-041	22000
Mercury	mg/Kg	0.27	C5-AC-SO-F200-1	0.4 J
			SB-CORE01-0.5-3731	0.432
			SD704-302	1.1
			SD712-319	0.55
			SD713-324	1.1
			SD732-370	0.35
			SS208-011	0.4
			SS404-041	1.5 N
			TB203-2806-01.0-013	1.31 *
			TB406-2827-02.0-027	0.284 *

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Nickel	mg/Kg	38	C5-VS-SO-B300-1	46
			SB414-135-21	44.5
			SB502-145-13	40
			SB-DRUM05-3382-1.0	44.7
			SB-EU101-3400-1.0	84.7
			SD725-353	42.5
			SS208-011	348
			SS404-041	46.8 *E
			SS-DRUM01-3369	43.5 *
			SS-DRUM02-3372	76.1 *
			SS-DRUM05-3381	65.1
			TB203-2806-01.0-013	43 E
			TB301-2811-01.0-029	107
			TB406-2827-02.0-027	68.2 E
			TB408-2829-02.7-005	39.2 E
			TB802A-2903-03.8-096	46.2

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Potassium	mg/Kg	2860	C5-SO-SO-D200-8	3240 J
			SB202-086-10	3190
			SB206-090-9	3110 N
			SB208-092-12	3120
			SB213-097-12.5	5180 E
			SB213-097-7.5	3330 E
			SB406-123-18	2970 N
			SB411-129-20	2920
			SB414-135-21	3700
			SB502-145-13	2910
			SB816-733-12.0	3190
			SB902-2082-2.0	3070 N
			SB903-2085-2.0	3560 N
			SB-BH218-15.0-3660	3900
			SB-BH219-6.0-3661	3290
			SB-BH220-20.0-3662	4060
			SB-BH221-15.0-3663	3450
			SB-BH223-3.0-3665	4670 *
			SB-BH225-10.0-3667	3390 *
			SB-BH226-12.0-3668	4120 EN
			SB-BH227-15.0-3669	2870 EN
			SB-DRUM01-3370-1.0	6010 *
			SB-DRUM05-3382-1.0	2880 E*
			SB-EU082-3319-1.5	3130 E
			SB-EU093-3322-2.0	3270 *
			SB-EU101-3400-1.0	4950 E
			SB-EU111-3325-1.5	2960 E
			SB-EU121-3326-2.0	3920 E
			SB-EU122-3407-1.0	3010 J
			SB-MW228-11.0-3615	5090
			SB-MW229-11.0-3614	5080 J
			SB-MW313-11.0-3591	3730 *
			SB-MW314-15.0-3594	5030 *
			SB-MW422-15.0-3609	3140 *
			SB-MW423-15.0-3612	3550 *
			SB-MW862-11.5-3603	3590 *
			SB-OTFL11-13.0-3658	5590
			SB-OTFL12-13.5-3659	3750
			SB-TWP830-15.0-3501	3000 *
			SB-TWP832-12.5-3507	3700 *
			SB-TWP834-14.0-3513	3790
			SB-TWP835-15.0-3516	4070 *
			SB-TWP836-15.0-3519	3710 *
			SB-TWP837-19.0-3522	3760

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Potassium	mg/Kg	2860	SB-TWP838-14.0-3525	3730
			SB-TWP839-14.0-3528	3520
			SB-TWP840-12.0-3531	3360 E
			SB-TWP841-10.0-3534	3860 *
			SB-TWP843-10.0-3540	3840 E
			SB-TWP846-16.0-3549	4180
			SB-TWP847-10.0-3552	4820
			SB-TWP848-11.0-3555	3840
			SB-TWP849-11.0-3558	4020
			SB-TWP853-16.5-3570	3750
			SB-TWP854-13.0-3573	3710
			SB-TWP859-18.0-3588	4340
			SD725-353	3190
			SS208-011	6510
			SS309-033	3060 E
			SS418-055	5850
			SS816-703	12200
			SS904-2087	3350 N
			SS908-2095	2920 N
			SS-DRUM01-3369	9150 N
			SS-DRUM05-3381	6330 J
			SS-EU051-3334	4050 *
			SS-EU101-3343	2940 E
			SS-EU102-3344	3120 E
			SS-EU113-3348	3010 N
			SS-EU131-3352	3040 E
			SS-TWP831-3503	2980
			SS-TWP832-3506	3500 *
			SS-TWP833-3509	3180
			SS-TWP834-3512	3210
			SS-TWP838-3524	2880
			SS-TWP848-3554	2880
			SS-TWP850-3560	3160 *
			SS-TWP852-3566	2890
			SS-TWP854-3572	3190
			SS-TWP858-3584	3570
			TB202-2803-05.2-038	4650 E
			TB202-2804-03.5-025	3480 E
			TB202-2805-03.0-062	4740 E
			TB203-2806-01.0-013	3430 E
			TB302-2813-01.0-042	2920 E
			TB403-2821-04.0-008	2980 E*
			TB403-2823-08.0-045	3660 E*
			TB406-2827-02.0-027	9290 E

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Potassium	mg/Kg	2860	TB406-2828-01.0-010	4740 E
			TB408-2829-02.7-005	3230 E
			TB408-2830-03.9-021	3580 E
			TB408-2831-04.7-054	3430 E
			TB802A-2903-03.8-096	3140
			TB810-2907-02.9-012	2930 E*
			TB810-2908-01.8-041	3180 E*
			TB811-2911-02.3-012	3130 E*
			TB811-2912-04.0-047	3630 E*
			TB812-2913-03.0-055	2940
			TB812-2915-05.0-001	3760

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	C5-AC-SO-F200-1	0.52 J
			SB102-715-9.5	0.937 B
			SB103-716-10.5	1 B
			SB202-086-10	0.72 B
			SB204-088-9	1.1
			SB206-090-9	1.2 N
			SB207-091-14	0.88
			SB208-092-12	0.74 B
			SB209-093-10	0.91 B
			SB213-097-12.5	0.69 BN
			SB213-097-3	0.72 BN
			SB213-097-7.5	0.76 BN
			SB215-099-7.5	0.87 BN
			SB217-101-13	1.2
			SB302-104-11	0.91 B
			SB303-105-8	0.88 B
			SB306-111-12.5	0.54 B
			SB307-112-10	0.8 B
			SB308-113-19	0.85 B
			SB309-114-19	0.61 BN
			SB310-115-8.5	1.1
			SB311-116-13	1.1
			SB401-118-20	0.39 BN
			SB402-119-23	3.2 B
			SB403-120-18	1 B
			SB404-121-25	1.1
			SB404-121-4	0.63 B
			SB405-122-25	1.2
			SB407-124-20	0.92 B
			SB408-125-20	0.9
			SB410-128-11	0.79 B
			SB411-129-20	1.1
			SB412-130-15	0.48 B
			SB413-131-19	1.4 B
			SB414-135-21	0.38 B
			SB415-136-12.5	0.76 B
			SB415-136-14	0.79 B
			SB415-136-9.2	0.75 B
			SB416-137-21	0.45 B
			SB417-138-3	1
			SB417-138-8.9	0.66 B
			SB418-140-19	0.85 B
			SB419-141-17	0.7 BN
			SB420-142-7	1.2 *N

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SB421-143-16	0.81 BN
			SB423-719-10.0	0.709 B
			SB501-144-12	1 B
			SB502-145-13	1.2
			SB503-149-13	1.2
			SB504-722-14.0	0.768 B
			SB505-723-17.0	0.531 B
			SB601-150-13	0.67 B
			SB604-153-15	0.57 B
			SB605-726-16.5	0.415 B
			SB607-728-17.0	0.611 B
			SB801-154-18	1.5
			SB802-155-17	0.59 B
			SB803-156-7.5	1.2
			SB806-159-18.9	0.71 B
			SB807-160-18.2	1.6 B
			SB808-161-15	2.1 B
			SB809-162-18	0.45 BN
			SB810-163-12.0	0.46 B
			SB812-165-10	0.79 B
			SB813-730-10.5	0.738 B
			SB816-733-12.0	1.07 B
			SB819-736-9.0	1.09 J
			SB822-739-11.0	0.775 B
			SB825-742-9.5	0.603 B
			SB902-2082-2.0	0.531 BN
			SB903-2085-2.0	1.15
			SB904-2088-3.0	0.777
			SB905-2090-2.0	0.987
			SB906-2092-3.0	0.623 B
			SB907-2094-2.5	0.429 BN
			SB908-2096-2.5	0.62 B
			SB909-2098-2.0	0.636 B
			SB910-2100-2.0	0.411 B
			SB-BH219-6.0-3661	0.762 B
			SB-BH223-3.0-3665	1.13 BN
			SB-BH226-12.0-3668	0.448 B
			SB-BH227-15.0-3669	0.39 B
			SB-CORE04-0.5-3737	0.443 B
			SB-CORE05-0.5-3739	0.435 B
			SB-CORE06-0.5-3741	0.712 B
			SB-CORE07-0.5-3743	0.475 B
			SB-CORE08-0.5-3745	0.535 B
			SB-CORE10-0.5-3749	0.473 B

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SB-DRUM01-3370-1.0	1.28
			SB-DRUM04-3379-1.0	0.676 B
			SB-DRUM05-3382-1.0	0.815 B
			SB-DRUM06-3396-1.0	0.665 B
			SB-DRUM07-3399-1.0	0.71 B
			SB-EU011-3300-2.0	0.864 B
			SB-EU012-3301-1.0	0.892 B
			SB-EU013-3302-1.0	0.697 B
			SB-EU014-3303-1.0	0.68 B
			SB-EU021-3305-1.0	0.856 B
			SB-EU022-3306-2.0	0.87 B
			SB-EU023-3307-2.0	0.473 B
			SB-EU031-3308-2.0	0.422 B
			SB-EU032-3309-1.0	0.741 B
			SB-EU042-3311-1.0	0.59 B
			SB-EU051-3312-1.0	0.492 B
			SB-EU052-3313-1.5	0.779 B
			SB-EU062-3315-2.0	0.51 B
			SB-EU071-3316-2.0	0.612 B
			SB-EU072-3317-1.5	0.513 B
			SB-EU081-3318-1.5	0.629 B
			SB-EU082-3319-1.5	0.387 B
			SB-EU091-3320-2.0	0.681 J
			SB-EU093-3322-2.0	0.431 B
			SB-EU101-3400-1.0	0.538 B
			SB-EU102-3323-2.0	0.691 B
			SB-EU103-3324-1.0	0.668 B
			SB-EU111-3325-1.5	0.531 B
			SB-EU121-3326-2.0	0.642 B
			SB-EU131-3408-2.0	0.878 B
			SB-MW228-11.0-3615	1.81
			SB-MW229-11.0-3614	1.25 J
			SB-MW229-28.5-3618	0.538 BN
			SB-MW424-14.0-3621	1.28 N
			SB-MW860-15.0-3597	0.918 BN
			SB-MW861-34.5-3596	1.27 N
			SB-MW861-38.0-3600	0.405 BN
			SB-MW862-11.5-3603	2.01 N
			SB-MW863-32.0-3606	1.3 N
			SB-OTFL12-13.5-3659	0.477 B
			SB-TWP831-15.0-3504	0.408 B
			SB-TWP834-14.0-3513	0.449 B
			SB-TWP835-15.0-3516	2.24 N
			SB-TWP836-15.0-3519	2.28 N

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SB-TWP837-19.0-3522	2.18
			SB-TWP840-12.0-3531	0.922 BN
			SB-TWP842-10.0-3537	0.88 BN
			SB-TWP843-10.0-3540	1.12 BN
			SB-TWP844-11.0-3543	1.53
			SB-TWP845-13.0-3546	1.05 B
			SB-TWP846-16.0-3549	1.53
			SB-TWP847-10.0-3552	2.36
			SB-TWP848-11.0-3555	1.68 N
			SB-TWP849-11.0-3558	1.79
			SB-TWP850-17.0-3561	1.22 BN
			SB-TWP851-18.0-3564	1.28 J
			SB-TWP852-15.0-3567	0.578 B
			SB-TWP857-11.0-3582	0.443 B
			SD701-293	0.76 BN
			SD702-295	1.2 B
			SD703-297	1.1
			SD704-302	0.99 BN
			SD711-317	1.1
			SD712-319	1.7 N
			SD713-324	0.91 BN
			SD714-326	0.84 BN
			SD723-349	1.3 B
			SD724-351	1.4 B
			SD725-353	1.8 B
			SD732-370	2.2 N
			SD733-373	1.7 N
			SS102-685	0.99 B
			SS103-686	0.834 B
			SS202-002	0.64 B
			SS204-004	1.7 B
			SS206-009	1.5 N
			SS207-010	1.1 B
			SS208-011	0.65 B
			SS209-012	1
			SS213-017	0.91 BN
			SS215-019	0.7 BN
			SS217-021	1.1
			SS2B001-532	1.38 B
			SS2B002-534	3.13 B
			SS2B003-535	1.44 B
			SS302-026	1.1
			SS303-027	0.85 B
			SS304-028	1 BN

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SS306-030	0.52 B
			SS308-032	1.1 N
			SS309-033	0.81 BN
			SS310-034	0.99
			SS311-035	1.6
			SS402-039	5.4 B
			SS403-040	0.87 B
			SS404-041	1.5
			SS405-042	1
			SS406-043	0.69 BN
			SS407-044	1.3
			SS408-045	1.2
			SS409-046	0.73 B
			SS410-047	1
			SS411-048	1.3
			SS412-049	0.53 B
			SS413-050	1.1
			SS415-052	0.97 B
			SS416-053	0.65 B
			SS417-054	1.2
			SS418-055	0.99 B
			SS419-056	0.73 BN
			SS421-058	0.62 BN
			SS423-689	0.944 B
			SS4A008-606	1.16 B
			SS4A010-608	1.06 B
			SS4A012-611	2.28
			SS4B003-614	0.983 B
			SS4B005-616	0.981 B
			SS4C001-618	0.581 B
			SS4D005-619	1.08 B
			SS4D007-621	1.34
			SS4D008-623	1.14 B
			SS501-059	1.1
			SS503-064	1.3
			SS504-692	1.05 B
			SS505-694	1.47 B
			SS601-065	0.56 B
			SS604-069	2.3 B
			SS605-697	0.701 B
			SS607-699	0.79 B
			SS801-070	0.49 B
			SS802-071	0.67 B
			SS803-072	1.3

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SS804-073	1.3
			SS805-074	1.8 B
			SS806-075	1.3 B
			SS808-077	5.8 B
			SS810-079	0.84 B
			SS813-700	0.902 B
			SS816-703	5.25
			SS819-706	0.845 B
			SS822-710	0.685 B
			SS825-713	0.558 B
			SS901-2079	0.515 BN
			SS902-2081	0.468 BN
			SS903-2083	1.12
			SS905-2089	1.76
			SS906-2091	1.01
			SS907-2093	0.534 BN
			SS908-2095	1.21
			SS909-2097	0.454 B
			SS910-2099	0.591 B
			SS-DRUM01-3369	1.61
			SS-DRUM02-3372	0.65 B
			SS-DRUM04-3378	0.626 B
			SS-DRUM05-3381	1.22
			SS-DRUM06-3395	0.71 B
			SS-DRUM07-3398	0.954 B
			SS-EU011-3327	0.725 B
			SS-EU021-3328	0.794 B
			SS-EU022-3329	0.995 B
			SS-EU031-3330	0.409 B
			SS-EU032-3331	0.577 B
			SS-EU051-3334	2.35
			SS-EU061-3335	0.83 B
			SS-EU062-3336	0.767 B
			SS-EU071-3337	0.58 B
			SS-EU072-3338	0.594 B
			SS-EU081-3339	0.378 B
			SS-EU092-3341	0.572 B
			SS-EU093-3342	0.56 B
			SS-EU103-3345	0.551 B
			SS-EU111-3346	0.509 B
			SS-EU112-3347	0.857 B
			SS-EU113-3348	0.643 B
			SS-EU121-3349	1.89
			SS-EU122-3350	0.666 B

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SS-EU123-3351	0.989 B
			SS-EU131-3352	0.497 B
			SS-EU132-3353	0.869 B
			SS-EU133-3354	0.542 B
			SS-EU141-3355	0.744 B
			SS-EU142-3356	0.934 B
			SS-EU143-3357	0.791 B
			SS-MW229-3617	1.13 N
			SS-MW313-3590	0.545 B
			SS-MW314-3593	0.702 B
			SS-MW422-3608	0.82 B
			SS-MW423-3611	0.456 B
			SS-MW424-3620	1.99 N
			SS-MW861-3599	2.16 N
			SS-MW862-3602	2.02
			SS-MW863-3605	2.58 J
			SS-TWP831-3503	0.375 B
			SS-TWP833-3509	0.447 B
			SS-TWP835-3515	2.46 N
			SS-TWP836-3518	2.38 N
			SS-TWP837-3521	2.46 N
			SS-TWP838-3524	0.371 B
			SS-TWP839-3527	0.402 B
			SS-TWP840-3530	1.42 N
			SS-TWP842-3536	1.19 N
			SS-TWP843-3539	1.06 BN
			SS-TWP844-3542	1.92
			SS-TWP845-3545	2.18
			SS-TWP846-3548	2.13
			SS-TWP847-3551	2.26
			SS-TWP848-3554	2.3 N
			SS-TWP849-3557	1.44 N
			SS-TWP850-3560	2.13 N
			SS-TWP851-3563	2.76 N
			SS-TWP854-3572	0.405 B
			SS-TWP856-3578	0.477 B
			SS-TWP858-3584	0.579 B
			SS-TWP859-3587	0.438 B
			TB201-2800-05.0-036	0.582 BN
			TB201-2801-01.0-013	0.707 BN
			TB201-2802-01.0-001	0.534 BN
			TB202-2803-05.2-038	0.634 B
			TB202-2804-03.5-025	0.728 B
			TB202-2805-03.0-062	0.614 B

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	TB203-2806-01.0-013	0.847 B
			TB203-2807-04.0-058	1.83
			TB205-2919-03.0-055	0.461 B
			TB205-2920-06.5-060	0.722 B
			TB205-2921-08.0-001	0.513 B
			TB301-2809-03.5-034	0.675 BN
			TB301-2811-01.0-029	0.898 BN
			TB302-2812-08.0-004	0.484 BN
			TB302-2813-01.0-042	0.839 BN
			TB302-2814-06.0-074	0.584 BN
			TB403-2821-04.0-008	0.823 BN
			TB403-2823-08.0-045	0.666 BN
			TB406-2826-07.0-043	0.524 B
			TB406-2827-02.0-027	1.16
			TB406-2828-01.0-010	0.562 B
			TB408-2829-02.7-005	0.711 B
			TB408-2830-03.9-021	0.904 B
			TB408-2831-04.7-054	0.597 B
			TB501-2847-01.5-130	0.687 BN
			TB501-2848-03.0-095	0.57 BN
			TB501-2849-02.7-068	0.891 BN
			TB802-2901-04.2-008	0.667 B
			TB802-2902-04.0-018	0.747 B
			TB802A-2903-03.8-096	0.698 B
			TB808-2850-04.5-016	1.36 B
			TB808-2851-01.5-020	1.54 B
			TB808-2852-01.5-016	1.36 B
			TB810-2907-02.9-012	0.516 BN
			TB810-2908-01.8-041	0.785 BN
			TB810-2909-05.8-045	0.431 BN
			TB811-2910-04.8-044	0.47 BN
			TB811-2911-02.3-012	0.471 BN
			TB811-2912-04.0-047	0.704 BN
			TB812-2913-03.0-055	0.608 B
			TB812-2914-03.0-014	0.614 B
			TB812-2915-05.0-001	0.617 B
			TS203-2808-020	0.88 B

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Silver	mg/Kg	0.27	SB505-723-17.0	0.411 B
			SB801-154-18	0.29 N
			SS2B001-532	0.352 BN
			SS2B002-534	0.361 BN
			SS2B003-535	0.404 BN
			SS403-040	0.34
			SS4C001-618	0.375 B
			SS4D005-619	0.293 E
			SS503-064	0.75 N
			SS505-694	0.341 B
			SS905-2089	0.716 E
			SS-DRUM02-3372	0.273
			SS-EU031-3330	0.291
Sodium	mg/Kg	331	C5-AC-SO-BP3-14	753
			C5-SO-SO-D200-8	381
			C5-VS-SO-D300-14	423
			SB202-086-10	344
			SB213-097-3	436 E
			SB404-121-4	479 E
			SB411-129-20	452 E
			SB414-135-21	486
			SB-BH223-3.0-3665	6950 N
			SB-MW229-11.0-3614	346
			SB-OTFL11-13.0-3658	403
			SS202-002	678
			SS208-011	1660
			SS308-032	356 E
			SS402-039	780 E
			SS418-055	766 E
			SS816-703	4690
			SS-DRUM01-3369	2410 *
			SS-DRUM02-3372	4520 *
			SS-EU051-3334	1210 E*
			TB202-2803-05.2-038	1780
			TB202-2804-03.5-025	406
			TB202-2805-03.0-062	954
			TB205-2919-03.0-055	2160
			TB403-2823-08.0-045	392
			TB406-2827-02.0-027	54800
			TB406-2828-01.0-010	6970

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	C5-SO-SO-D200-8	0.14 J
			SB102-715-9.5	0.214 B
			SB103-716-10.5	0.149 B
			SB202-086-10	0.2
			SB204-088-9	0.14
			SB206-090-9	0.13
			SB207-091-14	0.04 B
			SB208-092-12	0.16
			SB209-093-10	0.11 B
			SB213-097-12.5	0.15
			SB213-097-3	0.07 B
			SB213-097-7.5	0.09 B
			SB215-099-7.5	0.11 B
			SB217-101-13	0.12 B
			SB302-104-11	0.1 B
			SB303-105-8	0.16
			SB306-111-12.5	0.13
			SB307-112-10	0.13
			SB308-113-19	0.12 B
			SB309-114-19	0.03 B
			SB310-115-8.5	0.12 B
			SB311-116-13	0.11 B
			SB401-118-20	0.09 B
			SB402-119-23	0.07 B
			SB403-120-18	0.13 B
			SB404-121-25	0.1 B
			SB404-121-4	0.1 B
			SB405-122-25	0.04 B
			SB406-123-18	0.12 B
			SB407-124-20	0.02 B
			SB408-125-20	0.05 B
			SB409-126-7.5	0.17
			SB410-128-11	0.14
			SB411-129-20	0.21
			SB412-130-15	0.05 B
			SB413-131-19	0.1 B
			SB414-135-21	0.11 B
			SB415-136-12.5	0.14
			SB415-136-14	0.13
			SB415-136-9.2	0.12 B
			SB416-137-21	0.077 B
			SB417-138-3	0.13
			SB417-138-8.9	0.21
			SB418-140-19	0.13

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SB419-141-17	0.2
			SB421-143-16	0.16
			SB501-144-12	0.18
			SB502-145-13	0.18
			SB503-149-13	0.07 B
			SB504-722-14.0	0.174 B
			SB505-723-17.0	0.124 B
			SB601-150-13	0.13
			SB602-151-15	0.08 B
			SB604-153-15	0.11 B
			SB801-154-18	0.1 B
			SB802-155-17	0.02 B
			SB803-156-7.5	0.14
			SB804-157-7.5	0.16
			SB805-158-7.5	0.1 B
			SB806-159-18.9	0.13
			SB807-160-18.2	0.12 B
			SB808-161-15	0.04 B
			SB809-162-18	0.02 B
			SB810-163-12.0	0.05 B
			SB811-164-23	0.13
			SB812-165-10	0.03 B
			SB813-730-10.5	0.173 B
			SB816-733-12.0	0.157
			SB819-736-9.0	0.26 J
			SB822-739-11.0	0.248 B
			SB901-2080-2.0	0.04 B
			SB902-2082-2.0	0.143
			SB903-2085-2.0	0.144
			SB904-2088-3.0	0.064 B
			SB905-2090-2.0	0.107 B
			SB906-2092-3.0	0.067 B
			SB907-2094-2.5	0.119
			SB908-2096-2.5	0.154
			SB909-2098-2.0	0.117
			SB910-2100-2.0	0.141
			SB-BH218-15.0-3660	0.17
			SB-BH219-6.0-3661	0.123 BE
			SB-BH220-20.0-3662	0.172
			SB-BH221-15.0-3663	0.155
			SB-BH222-6.0-3664	0.136
			SB-BH223-3.0-3665	0.31
			SB-BH225-10.0-3667	0.132
			SB-BH226-12.0-3668	0.151

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SB-BH227-15.0-3669	0.12 B
			SB-CORE01-0.5-3731	0.098 B
			SB-CORE02-0.5-3733	0.089 B
			SB-CORE03-1.5-3735	0.061 B
			SB-CORE04-0.5-3737	0.112 B
			SB-CORE05-0.5-3739	0.121
			SB-CORE06-0.5-3741	0.149
			SB-CORE07-0.5-3743	0.09 B
			SB-CORE08-0.5-3745	0.11 B
			SB-CORE09-0.5-3747	0.102 B
			SB-CORE10-0.5-3749	0.124
			SB-DRUM01-3370-1.0	0.24 E
			SB-DRUM04-3379-1.0	0.118 E
			SB-DRUM05-3382-1.0	0.148 E
			SB-DRUM06-3396-1.0	0.156
			SB-DRUM07-3399-1.0	0.175
			SB-EU011-3300-2.0	0.115 BE
			SB-EU012-3301-1.0	0.13 E
			SB-EU013-3302-1.0	0.129 E
			SB-EU014-3303-1.0	0.133 E
			SB-EU021-3305-1.0	0.119 E
			SB-EU022-3306-2.0	0.124 E
			SB-EU023-3307-2.0	0.135 E
			SB-EU031-3308-2.0	0.121 E
			SB-EU032-3309-1.0	0.124 E
			SB-EU041-3310-1.0	0.091 BE
			SB-EU042-3311-1.0	0.147 E
			SB-EU051-3312-1.0	0.078 BE
			SB-EU052-3313-1.5	0.256 E
			SB-EU061-3314-2.0	0.059 BE
			SB-EU062-3315-2.0	0.105 BE
			SB-EU071-3316-2.0	0.139 E
			SB-EU072-3317-1.5	0.118 E
			SB-EU081-3318-1.5	0.183 E
			SB-EU082-3319-1.5	0.158
			SB-EU091-3320-2.0	0.083 J
			SB-EU092-3321-2.0	0.067 BE
			SB-EU093-3322-2.0	0.164 E
			SB-EU101-3400-1.0	0.209
			SB-EU102-3323-2.0	0.141
			SB-EU103-3324-1.0	0.117
			SB-EU111-3325-1.5	0.137
			SB-EU121-3326-2.0	0.155
			SB-EU122-3407-1.0	0.116 J

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SB-EU131-3408-2.0	0.153
			SB-MW228-11.0-3615	0.398 E
			SB-MW229-11.0-3614	0.192
			SB-MW229-28.5-3618	0.146
			SB-MW313-11.0-3591	0.284 E
			SB-MW314-15.0-3594	0.226 E
			SB-MW422-15.0-3609	0.138 E
			SB-MW423-15.0-3612	0.173 E
			SB-MW424-14.0-3621	0.067 B
			SB-MW860-15.0-3597	0.046 B
			SB-MW861-34.5-3596	0.083 B
			SB-MW861-38.0-3600	0.064 B
			SB-MW862-11.5-3603	0.138
			SB-MW863-32.0-3606	0.073 B
			SB-OTFL11-13.0-3658	0.221
			SB-OTFL12-13.5-3659	0.18
			SB-TWP830-15.0-3501	0.127
			SB-TWP831-15.0-3504	0.093 B
			SB-TWP832-12.5-3507	0.213
			SB-TWP833-10.0-3510	0.052 BE
			SB-TWP834-14.0-3513	0.26 E
			SB-TWP835-15.0-3516	0.171
			SB-TWP836-15.0-3519	0.206
			SB-TWP837-19.0-3522	0.162 E
			SB-TWP838-14.0-3525	0.153
			SB-TWP839-14.0-3528	0.137
			SB-TWP840-12.0-3531	0.117 B
			SB-TWP841-10.0-3534	0.116 BE
			SB-TWP842-10.0-3537	0.098 B
			SB-TWP843-10.0-3540	0.141
			SB-TWP844-11.0-3543	0.118 BE
			SB-TWP845-13.0-3546	0.053 BE
			SB-TWP846-16.0-3549	0.12 BE
			SB-TWP847-10.0-3552	0.214 J
			SB-TWP848-11.0-3555	0.174
			SB-TWP849-11.0-3558	0.186 E
			SB-TWP850-17.0-3561	0.207
			SB-TWP851-18.0-3564	0.098 J
			SB-TWP852-15.0-3567	0.05 B
			SB-TWP853-16.5-3570	0.145
			SB-TWP854-13.0-3573	0.155
			SB-TWP855-15.0-3576	0.129
			SB-TWP856-11.0-3579	0.07 B
			SB-TWP857-11.0-3582	0.057 B

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SB-TWP858-16.0-3585	0.054 J
			SB-TWP859-18.0-3588	0.156
			SD701-293	0.1 B
			SD702-295	0.15 B
			SD703-297	0.12 B
			SD704-302	0.13 B
			SD711-317	0.093 B
			SD712-319	0.27
			SD713-324	0.14
			SD714-326	0.16 B
			SD725-353	0.27
			SD732-370	0.31
			SD733-373	0.36
			SD734-375	0.23
			SS102-685	0.221 B
			SS103-686	0.147 B
			SS202-002	0.11 B
			SS204-004	0.39
			SS206-009	0.09 B
			SS207-010	0.12 B
			SS208-011	0.16
			SS209-012	0.1 B
			SS213-017	0.17
			SS215-019	0.09 B
			SS217-021	0.14
			SS2B001-532	0.121 B
			SS2B002-534	0.18 B
			SS2B003-535	0.262 B
			SS302-026	0.07 B
			SS303-027	0.13
			SS304-028	0.11 B
			SS306-030	0.13 B
			SS307-031	0.09 B
			SS308-032	0.16
			SS309-033	0.08 B
			SS310-034	0.099 B
			SS311-035	0.15
			SS401-037	0.07 B
			SS403-040	0.15
			SS404-041	0.09 B
			SS405-042	0.12
			SS406-043	0.1 B
			SS407-044	0.11 B
			SS408-045	0.1 B

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SS409-046	0.13
			SS410-047	0.14
			SS411-048	0.11 B
			SS412-049	0.08 B
			SS413-050	0.16
			SS414-051	0.13 B
			SS415-052	0.15
			SS416-053	0.089 B
			SS417-054	0.2
			SS418-055	0.24
			SS419-056	0.11 B
			SS420-057	0.1 B
			SS421-058	0.14
			SS4A008-606	0.128
			SS4A010-608	0.145
			SS4A012-611	0.135
			SS4B003-614	0.151
			SS4B005-616	0.118
			SS4D005-619	0.202
			SS4D007-621	0.094 B
			SS4D008-623	0.108 B
			SS501-059	0.1 B
			SS502-060	0.07 B
			SS503-064	0.09 B
			SS504-692	0.285 B
			SS601-065	0.15
			SS602-066	0.04 B
			SS603-068	0.07 B
			SS604-069	0.06 B
			SS801-070	0.1 B
			SS802-071	0.09 B
			SS803-072	0.12 B
			SS804-073	0.15
			SS805-074	0.07 B
			SS806-075	0.08 B
			SS807-076	0.06 B
			SS808-077	0.08 B
			SS809-078	0.06 B
			SS810-079	0.13
			SS811-080	0.13
			SS812-084	0.1 B
			SS813-700	0.16 B
			SS816-703	0.032 B
			SS819-706	0.16 B

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SS822-710	0.153 B
			SS901-2079	0.056 B
			SS902-2081	0.124
			SS903-2083	0.106 B
			SS905-2089	0.108 B
			SS906-2091	0.098 B
			SS907-2093	0.138
			SS908-2095	0.131
			SS909-2097	0.123
			SS910-2099	0.128
			SS-DRUM01-3369	0.249 E
			SS-DRUM02-3372	0.115 BE
			SS-DRUM04-3378	0.11 BE
			SS-DRUM05-3381	0.163 E
			SS-DRUM06-3395	0.151
			SS-DRUM07-3398	0.242
			SS-EU011-3327	0.11 BE
			SS-EU021-3328	0.138 E
			SS-EU022-3329	0.12 BE
			SS-EU031-3330	0.099 BE
			SS-EU032-3331	0.125 E
			SS-EU033-3332	0.11 BE
			SS-EU034-3333	0.102 BE
			SS-EU051-3334	0.105 BE
			SS-EU061-3335	0.114 B
			SS-EU062-3336	0.129 E
			SS-EU071-3337	0.141 E
			SS-EU072-3338	0.11 BE
			SS-EU081-3339	0.129 E
			SS-EU091-3340	0.061 BE
			SS-EU092-3341	0.095 BE
			SS-EU093-3342	0.122 E
			SS-EU101-3343	0.109 B
			SS-EU102-3344	0.109 B
			SS-EU103-3345	0.103 B
			SS-EU111-3346	0.121
			SS-EU112-3347	0.165
			SS-EU113-3348	0.125 B
			SS-EU121-3349	0.215
			SS-EU122-3350	0.114 B
			SS-EU123-3351	0.153
			SS-EU131-3352	0.114 B
			SS-EU132-3353	0.145
			SS-EU133-3354	0.099 B

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SS-EU141-3355	0.11
			SS-EU142-3356	0.123
			SS-EU143-3357	0.133
			SS-MW229-3617	0.136
			SS-MW313-3590	0.188 E
			SS-MW314-3593	0.191 E
			SS-MW422-3608	0.175 E
			SS-MW423-3611	0.19 E
			SS-MW424-3620	0.116
			SS-MW861-3599	0.153
			SS-MW862-3602	0.124 E
			SS-MW863-3605	0.199
			SS-TWP830-3500	0.14
			SS-TWP831-3503	0.131
			SS-TWP832-3506	0.13
			SS-TWP833-3509	0.142 E
			SS-TWP834-3512	0.13 E
			SS-TWP835-3515	0.098 B
			SS-TWP836-3518	0.132
			SS-TWP837-3521	0.158
			SS-TWP838-3524	0.11 B
			SS-TWP839-3527	0.14
			SS-TWP840-3530	0.114
			SS-TWP841-3533	0.14 E
			SS-TWP842-3536	0.119
			SS-TWP843-3539	0.126
			SS-TWP844-3542	0.149 E
			SS-TWP845-3545	0.131 E
			SS-TWP846-3548	0.1 BE
			SS-TWP847-3551	0.13 E
			SS-TWP848-3554	0.117
			SS-TWP849-3557	0.144
			SS-TWP850-3560	0.139
			SS-TWP851-3563	0.148
			SS-TWP852-3566	0.129
			SS-TWP853-3569	0.141
			SS-TWP854-3572	0.096 B
			SS-TWP855-3575	0.163
			SS-TWP856-3578	0.13
			SS-TWP857-3581	0.129
			SS-TWP858-3584	0.135 E
			SS-TWP859-3587	0.148 E
			TB201-2800-05.0-036	0.17 E
			TB201-2801-01.0-013	0.174 E

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	TB201-2802-01.0-001	0.144 E
			TB202-2803-05.2-038	0.165 E
			TB202-2804-03.5-025	0.176 E
			TB202-2805-03.0-062	0.218 E
			TB203-2806-01.0-013	0.242 E
			TB203-2807-04.0-058	0.26 E
			TB205-2919-03.0-055	0.153
			TB205-2920-06.5-060	0.071 B
			TB205-2921-08.0-001	0.049 B
			TB301-2809-03.5-034	0.214 E
			TB301-2810-01.5-003	0.075 BE
			TB301-2811-01.0-029	0.232 E
			TB302-2812-08.0-004	0.116 E
			TB302-2813-01.0-042	0.19 E
			TB302-2814-06.0-074	0.116 BE
			TB403-2821-04.0-008	0.199 E
			TB403-2822-07.0-024	0.095 J
			TB403-2823-08.0-045	0.143 E
			TB406-2826-07.0-043	0.2 E
			TB406-2827-02.0-027	0.36 E
			TB406-2828-01.0-010	0.262 E
			TB408-2829-02.7-005	0.212 E
			TB408-2830-03.9-021	0.199 E
			TB408-2831-04.7-054	0.167 E
			TB501-2847-01.5-130	0.168 E
			TB501-2848-03.0-095	0.155 E
			TB501-2849-02.7-068	0.154 E
			TB802-2901-04.2-008	0.154
			TB802-2902-04.0-018	0.151
			TB802A-2903-03.8-096	0.183
			TB808-2850-04.5-016	0.164 E
			TB808-2851-01.5-020	0.152 E
			TB808-2852-01.5-016	0.147 E
			TB810-2907-02.9-012	0.154 E
			TB810-2908-01.8-041	0.143 E
			TB810-2909-05.8-045	0.132 E
			TB811-2910-04.8-044	0.067 BE
			TB811-2911-02.3-012	0.151 E
			TB811-2912-04.0-047	0.139 E
			TB812-2913-03.0-055	0.157
			TB812-2914-03.0-014	0.139
			TB812-2915-05.0-001	0.174
			TS203-2808-020	0.189 E

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Vanadium	mg/Kg	35.2	SB202-086-10	35.4
			SB213-097-12.5	36.3
			SB414-135-21	44.5
			SB816-733-12.0	38.1
			SB902-2082-2.0	35.9
			SB903-2085-2.0	37.1
			SB-BH218-15.0-3660	41.8
			SB-BH219-6.0-3661	43.6
			SB-BH220-20.0-3662	41.7
			SB-BH221-15.0-3663	37.3
			SB-BH223-3.0-3665	65.9 *N
			SB-DRUM01-3370-1.0	44.9 E*N
			SB-EU081-3318-1.5	39.7 E*N
			SB-EU101-3400-1.0	44.3 N
			SB-EU102-3323-2.0	41.1 N
			SB-EU111-3325-1.5	39.6 N
			SB-EU121-3326-2.0	40.3 N
			SB-EU122-3407-1.0	38.8 J
			SB-MW228-11.0-3615	41.6 N
			SB-MW229-11.0-3614	39.4
			SB-MW314-15.0-3594	38.5 *
			SB-OTFL11-13.0-3658	49.4
			SB-OTFL12-13.5-3659	37.2
			SB-TWP832-12.5-3507	37.1 *N
			SB-TWP834-14.0-3513	36.2
			SB-TWP835-15.0-3516	37.7
			SB-TWP838-14.0-3525	36.8
			SB-TWP839-14.0-3528	35.8
			SB-TWP846-16.0-3549	35.9 N
			SB-TWP847-10.0-3552	41.8 J
			SB-TWP848-11.0-3555	36.5 *N
			SB-TWP853-16.5-3570	36.8
			SB-TWP854-13.0-3573	36.6
			SB-TWP859-18.0-3588	36.5
			SD701-293	39.8
			SD725-353	43.3
			SS208-011	40.5
			SS418-055	41.2
			SS502-060	36.7 *
			SS816-703	35.7
			SS903-2083	46.8
			SS907-2093	35.4
			SS-DRUM01-3369	52
			SS-DRUM05-3381	38.2 J

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Vanadium	mg/Kg	35.2	SS-EU112-3347	39.3 N
			SS-EU121-3349	45.8 N
			SS-EU122-3350	41 N
			SS-TWP833-3509	36.7
			SS-TWP847-3551	36.9 N
			SS-TWP849-3557	46.8 *N
			SS-TWP851-3563	39
			SS-TWP852-3566	37.9
			SS-TWP854-3572	39
			SS-TWP855-3575	37.3
			SS-TWP856-3578	36.7
			SS-TWP857-3581	35.5
			SS-TWP858-3584	36.4
			TB202-2803-05.2-038	42.1 N
			TB202-2804-03.5-025	38.7 N
			TB202-2805-03.0-062	41.8 N
			TB203-2806-01.0-013	45.7 N
			TB203-2807-04.0-058	38 N
			TB205-2919-03.0-055	50.8
			TB302-2813-01.0-042	39.2 N
			TB403-2823-08.0-045	39.7 *
			TB406-2827-02.0-027	49.9 N
			TB406-2828-01.0-010	37.3 N
			TB408-2829-02.7-005	47.6 N
			TB501-2847-01.5-130	39.3 N
			TB501-2848-03.0-095	42.5 N
			TB802A-2903-03.8-096	37.3
			TB810-2907-02.9-012	36.8 *
			TB810-2908-01.8-041	37 *
			TB811-2911-02.3-012	40.1 *
			TB811-2912-04.0-047	39.2 *
			TB812-2913-03.0-055	48.8
			TB812-2914-03.0-014	38.7
			TB812-2915-05.0-001	39.1
Zinc	mg/Kg	266	SB-CORE02-0.5-3733	290 *
			SD702-295	830
			SS208-011	495
			SS217-021	270
			SS4A012-611	475
			SS816-703	403
			SS-MW861-3599	341 E
			SS-MW863-3605	348 J
			TB203-2806-01.0-013	766
			TS203-2808-020	2450

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
PAHs				
Anthracene	μg/Kg	8	C5-SO-SO-D800-1	3100 E
			C5-SO-SO-D800-10	18
			SB-CORE01-0.5-3731	35.3 J
			SB-DRUM04-3379-1.0	21.3 J
			SB-EU081-3318-1.5	26.3
			SS201-001	60.4 J
			SS203-003	55.6 J
			SS204-004	43.5 J
			SS2A002-530	48.2
			SS2A003-531	518
			SS308-032	9140
			SS309-033	1590 J
			SS3C003-586	216 J
			SS3C007-590	7280
			SS3C008-591	24700
			SS405-042	240 J
			SS4A003-601	1530 J
			SS4A007-605	6660
			SS-DRUM04-3378	78.5
			SS-MW861-3599	136
			SS-MW863-3605	40.2
			SS-TWP831-3503	8.46 J
			SS-TWP848-3554	77.7
			TB408-2830-03.9-021	420 J
			TB802A-2903-03.8-096	113
			TS203-2808-020	22.6 J

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzo(a)anthracene	µg/Kg	284	C5-SO-SO-D800-1	5500 E
			SB-CORE09-0.5-3747	379
			SS201-001	323 J
			SS2A003-531	2430
			SS2B002-534	945 J
			SS308-032	28900 D
			SS309-033	3190
			SS3C002-585	353 J
			SS3C006-589	4750 J
			SS3C007-590	33300 D
			SS3C008-591	73300
			SS3C011-594	16800 J
			SS405-042	1170
			SS417-054	446
			SS4A003-601	17900 D
			SS4A007-605	26900 D
			SS4B001-612	887 J
			SS4D007-621	623
			SS-DRUM04-3378	578
			SS-MW861-3599	900
			SS-TWP848-3554	416
			TB802A-2903-03.8-096	491

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzo(a)pyrene	µg/Kg	313	C5-SO-SO-D800-1	4700 E
			SB-CORE09-0.5-3747	385
			SB-DRUM04-3379-1.0	358
			SS201-001	383 J
			SS2A002-530	349
			SS2A003-531	2560
			SS2B002-534	1340 J
			SS308-032	33600 D
			SS309-033	3080
			SS311-035	540 J
			SS3C002-585	408 J
			SS3C006-589	4100 J
			SS3C007-590	34000 D
			SS3C008-591	82500
			SS3C011-594	14900 J
			SS405-042	1830
			SS417-054	508
			SS4A003-601	36000 D
			SS4A007-605	27500 D
			SS4B001-612	2560
			SS4D007-621	670
			SS-DRUM04-3378	1290
			SS-MW861-3599	691
			SS-TWP848-3554	536
			TB408-2830-03.9-021	2400

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzo(b)fluoranthene	µg/Kg	396	C5-SO-SO-D800-1	5800 E
			SB-CORE09-0.5-3747	700 P
			SB-DRUM04-3379-1.0	1080
			SS201-001	446
			SS2A003-531	2740
			SS2B002-534	3550
			SS308-032	31500 D
			SS309-033	3430
			SS3C002-585	469
			SS3C006-589	5960 J
			SS3C007-590	37700 D
			SS3C008-591	42800 D
			SS3C011-594	20200 J
			SS405-042	1740
			SS417-054	647
			SS4A003-601	29700 E
			SS4A007-605	35000 D
			SS4B001-612	4480
			SS4D007-621	949
			SS-DRUM01-3369	413
			SS-DRUM04-3378	2980
			SS-EU051-3334	561
			SS-MW861-3599	1280
			SS-TWP848-3554	801
			TB802A-2903-03.8-096	641

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzo(g,h,i)perylene	µg/Kg	16	C5-AC-SO-F200-1	48
			C5-SO-SO-D800-1	3100 E
			C5-SO-SO-D800-10	100
			SB412-130-15	34.8 J
			SB-CORE09-0.5-3747	181
			SB-DRUM01-3370-1.0	60.3
			SB-DRUM04-3379-1.0	233
			SB-DRUM06-3396-1.0	29.1 P
			SB-EU081-3318-1.5	80.7 P
			SS201-001	215 J
			SS203-003	191 J
			SS206-009	63.4 J
			SS208-011	40.4 J
			SS2A002-530	234
			SS2A003-531	1410
			SS2B002-534	1070 J
			SS308-032	22500 D
			SS309-033	1860
			SS3C002-585	253 J
			SS3C007-590	22400 D
			SS3C008-591	54100
			SS3C011-594	12600 J
			SS405-042	1030
			SS408-045	216 J
			SS412-049	2880 J
			SS413-050	49.3 J
			SS417-054	231 J
			SS4A003-601	19400 E
			SS4A007-605	9820
			SS4B001-612	1460 J
			SS4D007-621	376
			SS-DRUM01-3369	101
			SS-DRUM04-3378	792
			SS-DRUM07-3398	62.5 P
			SS-EU051-3334	176
			SS-EU071-3337	36.8
			SS-EU072-3338	17.4
			SS-EU081-3339	45.7
			SS-EU121-3349	18.9
			SS-MW313-3590	55.6
			SS-MW861-3599	300
			SS-MW863-3605	115
			SS-TWP848-3554	281
			TB301-2811-01.0-029	45.9

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzo(k)fluoranthene	μg/Kg	322	C5-SO-SO-D800-1	2400 E
			SS2A002-530	404
			SS2A003-531	2940
			SS2B002-534	1250 J
			SS308-032	25900 D
			SS309-033	2280
			SS3C002-585	351 J
			SS3C007-590	31000 D
			SS3C008-591	62900
			SS405-042	1410
			SS417-054	595
			SS4A003-601	25900 D
			SS4A007-605	6420
			SS4B001-612	1650
			SS4D007-621	908
			SS-DRUM04-3378	601
			TB408-2830-03.9-021	1240
Chrysene	μg/Kg	378	C5-SO-SO-D800-1	3800 E
			SS201-001	440
			SS2A002-530	409
			SS2A003-531	2980
			SS2B002-534	1790
			SS308-032	29400 D
			SS309-033	3100
			SS3C002-585	379 J
			SS3C006-589	4620 J
			SS3C007-590	35700 D
			SS3C008-591	76000
			SS3C011-594	16300 J
			SS405-042	1210
			SS417-054	562
			SS4A003-601	19800 D
			SS4A007-605	26300 D
			SS4B001-612	2380
			SS4D007-621	992
			SS-DRUM04-3378	1090
			SS-MW861-3599	1010
			SS-TWP848-3554	436
			TB408-2830-03.9-021	931
			TB802A-2903-03.8-096	486

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Fluoranthene	µg/Kg	889	C5-SO-SO-D800-1	16000 E
			SS201-001	892
			SS2A003-531	7210 D
			SS2B002-534	1120 J
			SS308-032	81500 D
			SS309-033	9650
			SS3C002-585	919
			SS3C006-589	11400
			SS3C007-590	80000 D
			SS3C008-591	92400 D
			SS3C011-594	39200
			SS405-042	1920
			SS4A003-601	12700 D
			SS4A007-605	55800 D
			SS-MW861-3599	1760
			TB408-2830-03.9-021	2760
			TB802A-2903-03.8-096	1540

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Fluorene	µg/Kg	2.9	C5-AC-SO-F200-1	14
			C5-SO-SO-D800-1	1100 E
			C5-SO-SO-D800-10	6.9
			SB-DRUM06-3396-1.0	4.96 J
			SB-EU081-3318-1.5	11.8 J
			SS201-001	35.6 J
			SS2A002-530	27.9 J
			SS2A003-531	263
			SS308-032	4020
			SS309-033	711 J
			SS3C001-584	950 J
			SS3C006-589	4830 J
			SS3C007-590	2630 J
			SS3C008-591	8830 J
			SS3C011-594	15200 J
			SS3C012-596	244 J
			SS3C013-597	226 J
			SS405-042	103 J
			SS4A007-605	2570
			SS-DRUM04-3378	11.6 J
			SS-DRUM07-3398	19.8 J
			SS-MW861-3599	30.7 J
			SS-MW862-3602	7.21 J
			SS-MW863-3605	19.1 J
			SS-TWP848-3554	22.2 J
			TB301-2810-01.5-003	7.7 J
			TB301-2811-01.0-029	5.6 J
			TB408-2830-03.9-021	178 JB
			TB802A-2903-03.8-096	26.1 J

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Indeno(1,2,3-cd)pyrene	µg/Kg	8.8	C5-SO-SO-D800-1	1900 E
			C5-SO-SO-D800-10	26
			SB412-130-15	27.5 J
			SB-CORE01-0.5-3731	21.3 J
			SB-DRUM04-3379-1.0	403
			SS201-001	182 J
			SS203-003	188 J
			SS208-011	30.6 J
			SS2A002-530	268
			SS2A003-531	1330
			SS2B001-532	965 J
			SS2B002-534	1600 J
			SS308-032	13800
			SS309-033	1740
			SS3B001-573	2280 J
			SS3C001-584	992 J
			SS3C002-585	220 J
			SS3C006-589	5990 J
			SS3C007-590	19400 D
			SS3C008-591	43600
			SS3C011-594	21200 J
			SS3C012-596	328 J
			SS3C013-597	205 J
			SS404-041	135 J
			SS405-042	980
			SS408-045	154 J
			SS413-050	38.6 J
			SS417-054	240 J
			SS4A003-601	17500
			SS4A007-605	8990
			SS4B001-612	1420 J
			SS4D007-621	387
			SS-DRUM01-3369	332
			SS-DRUM02-3372	39.5
			SS-DRUM04-3378	875
			SS-DRUM05-3381	38.3
			SS-DRUM07-3398	306
			SS-EU051-3334	283
			SS-EU081-3339	48.1
			SS-MW861-3599	387
			SS-MW862-3602	42.4
			SS-MW863-3605	70.9
			SS-TWP848-3554	280
			TB301-2811-01.0-029	106

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Indeno(1,2,3-cd)pyrene	µg/Kg	8.8	TB802A-2903-03.8-096	110
Naphthalene	µg/Kg	--	C5-AC-SO-F200-1	100
			C5-SO-SO-D800-1	2000
			C5-SO-SO-D800-10	19
			SB204-088-2	568
			SB-BH220-20.0-3662	1.42 J
			SB-BH226-12.0-3668	2.52 JP
			SB-DRUM06-3396-1.0	5.16 J
			SB-DRUM07-3399-1.0	37.3
			SB-EU081-3318-1.5	30.6
			SS201-001	343 J
			SS203-003	483
			SS204-004	1330
			SS208-011	23.2 J
			SS2A002-530	46.6
			SS2A003-531	336
			SS2B002-534	2170
			SS2B003-535	1410 J
			SS311-035	181 J
			SS312-036	56.8 J
			SS3A006-561	235 J
			SS405-042	51.7 J
			SS4A007-605	893 J
			SS504-692	292 J
			SS-DRUM06-3395	7 J
			SS-DRUM07-3398	76.7
			SS-EU071-3337	17.3 J
			SS-EU081-3339	9.37 J
			SS-EU102-3344	2.44 JP
			SS-EU121-3349	3.03 JP
			SS-EU131-3352	11.2 J
			SS-MW313-3590	12.6 JP
			SS-TWP835-3515	2.99 Jh
			SS-TWP841-3533	3.44 J
			TB201-2801-01.0-013	110
			TB201-2802-01.0-001	78.6
			TB301-2810-01.5-003	35.2 J
			TB301-2811-01.0-029	22.8 J

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Phenanthrene	µg/Kg	538	C5-SO-SO-D800-1	13000 E
			SS201-001	642
			SS204-004	988
			SS2A003-531	4360
			SS2B002-534	1050 J
			SS308-032	61800 D
			SS309-033	8550
			SS3C002-585	733
			SS3C006-589	8230
			SS3C007-590	57800 D
			SS3C008-591	71600 D
			SS3C011-594	26500
			SS405-042	1320
			SS4A003-601	6040 D
			SS4A007-605	56300 D
			SS-MW861-3599	624
			TB408-2830-03.9-021	2290
			TB802A-2903-03.8-096	727
Pyrene	µg/Kg	716	C5-SO-SO-D800-1	12000 E
			SS201-001	925
			SS2A002-530	748
			SS2A003-531	6280 D
			SS308-032	53600 E
			SS3C002-585	940
			SS3C006-589	9810
			SS3C007-590	88000 D
			SS3C008-591	99700 D
			SS3C011-594	33600
			SS405-042	1900
			SS4A003-601	17300 D
			SS4A007-605	62900 D
			SS4B001-612	897 J
			SS-DRUM04-3378	795
			SS-MW861-3599	1420
			TB408-2830-03.9-021	2130
			TB802A-2903-03.8-096	1150
PCBs				

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aroclor-1254	µg/Kg	--	SB-CORE01-0.5-3731	441
			SB-CORE06-0.5-3741	29.6
			SB-CORE10-0.5-3749	5.8
			SB-DRUM01-3370-1.0	4.8
			SB-DRUM05-3382-1.0	19.4
			SB-DRUM06-3396-1.0	7.9
			SB-EU042-3311-1.0	668
			SB-EU082-3319-1.5	2.7 J
			SB-EU101-3400-1.0	5.1
			SB-TWP834-14.0-3513	124
			SB-TWP840-12.0-3531	21.2
			SB-TWP844-11.0-3543	2.4 J
			SB-TWP847-10.0-3552	2.7 J
			SB-TWP856-11.0-3579	2.3 J
			SD731-368	5.9
			SD734-375	11.3 P
			SS208-011	208
			SS217-021	77.7
			SS4C001-618	714 JP
			SS4D007-621	226
			SS4D008-623	100
			SS4F001-633	28.5 J
			SS4F002-634	28 J
			SS4F003-635	7.8 JP
			SS4F004-636	32.7 JP
			SS811-080	12 P
			SS825-713	6
			SS-DRUM06-3395	20.9
			SS-EU051-3334	4.2
			SS-EU093-3342	2.9 J
			SS-EU102-3344	10.4
			SS-TWP846-3548	2.6 J
			SS-TWP847-3551	3.8 J
			TB403-2821-04.0-008	2.9 J
			TB408-2829-02.7-005	13.2
			TB802-2902-04.0-018	6.2
			TB802A-2903-03.8-096	7.3 J
			TB808-2852-01.5-016	6.9 P

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aroclor-1260	µg/Kg	--	C5-SO-SO-D800-1	130 J
			C5-SO-SO-D800-10	26
			SB-CORE01-0.5-3731	50.8
			SB-CORE04-0.5-3737	5.7
			SB-CORE05-0.5-3739	2.8 J
			SB-CORE06-0.5-3741	11.7 J
			SB-CORE07-0.5-3743	26.4
			SB-CORE09-0.5-3747	4.8
			SB-CORE10-0.5-3749	4.2
			SB-DRUM01-3370-1.0	8.7
			SB-DRUM04-3379-1.0	1650
			SB-DRUM05-3382-1.0	165
			SB-DRUM06-3396-1.0	62.5
			SB-DRUM07-3399-1.0	25100
			SB-EU021-3305-1.0	1.4 J
			SB-EU032-3309-1.0	5.4
			SB-EU041-3310-1.0	125
			SB-EU042-3311-1.0	4660
			SB-EU051-3312-1.0	3 J
			SB-EU081-3318-1.5	9
			SB-TWP834-14.0-3513	25.9
			SB-TWP840-12.0-3531	4.7
			SD714-326	8.9 J
			SD732-370	10.5 J
			SD733-373	5.2 J
			SD734-375	12.2
			SS216-020	14.9
			SS217-021	84.5 P
			SS303-027	17.2
			SS309-033	5.5
			SS311-035	20.8
			SS313-687	4 J
			SS403-040	9.8 JP
			SS406-043	69.6
			SS409-046	16
			SS413-050	2030
			SS414-051	154
			SS415-052	110
			SS417-054	1120
			SS418-055	392
			SS4C001-618	14500
			SS4D005-619	320
			SS4D007-621	511
			SS4D008-623	361

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aroclor-1260	µg/Kg	--	SS4D010-626	2580
			SS4D013-629	162
			SS4D015-631	354
			SS4F001-633	65.3
			SS4F002-634	94.4
			SS4F003-635	24.8 J
			SS4F004-636	19.4 JP
			SS811-080	17.6
			SS825-713	14.7
			SS908-2095	12.7 P
			SS-DRUM01-3369	6.3
			SS-DRUM02-3372	249
			SS-DRUM04-3378	5740
			SS-DRUM05-3381	309
			SS-DRUM06-3395	120
			SS-DRUM07-3398	70200
			SS-EU021-3328	14.7 J
			SS-EU022-3329	3.4 J
			SS-EU051-3334	5.3
			SS-EU071-3337	2.2 J
			SS-EU102-3344	2.13 J
			SS-EU121-3349	4.8 J
			SS-EU122-3350	1.4 J
			SS-MW314-3593	4.6 h
			SS-MW422-3608	1230 B
			SS-MW423-3611	7.1 B
			SS-MW424-3620	6
			SS-MW863-3605	3.3 J
			SS-TWP833-3509	4.4
			SS-TWP847-3551	2.2 J
			TB302-2813-01.0-042	1.6 J
			TB403-2821-04.0-008	2.7 JP
			TB404-2856-02.3-028	5.7
			TB406-2827-02.0-027	18.8 J
			TB406-2828-01.0-010	48.8
			TB408-2829-02.7-005	17.9
			TB802-2902-04.0-018	12
			TB802A-2903-03.8-096	9.3 JP
Pesticides				

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
4,4'-DDE	µg/Kg	--	SB-BH219-6.0-3661	0.378 J
			SB-BH221-15.0-3663	1.1 J
			SB-BH225-10.0-3667	4.12
			SB-CORE02-0.5-3733	0.878 J
			SB-CORE03-1.5-3735	0.704 J
			SB-CORE04-0.5-3737	1.28 J
			SB-CORE06-0.5-3741	0.508 J
			SB-DRUM01-3370-1.0	3.94
			SB-DRUM05-3382-1.0	3.13
			SB-DRUM06-3396-1.0	5.52
			SB-EU012-3301-1.0	2.41 J
			SB-EU013-3302-1.0	2.36
			SB-EU022-3306-2.0	0.472 J
			SB-EU023-3307-2.0	0.818 J
			SB-EU032-3309-1.0	1.1 J
			SB-EU061-3314-2.0	1.91
			SB-EU062-3315-2.0	0.273 J
			SB-EU071-3316-2.0	1.55 J
			SB-EU081-3318-1.5	0.682 J
			SB-EU082-3319-1.5	0.641 J
			SB-EU101-3400-1.0	1.09 J
			SB-EU103-3324-1.0	2.25
			SB-EU111-3325-1.5	0.419 J
			SB-EU121-3326-2.0	0.758 J
			SB-MW422-15.0-3609	0.589 J
			SB-TWP831-15.0-3504	1.35 J
			SB-TWP833-10.0-3510	0.375 J
			SB-TWP844-11.0-3543	0.645 J
			SB-TWP858-16.0-3585	0.321 J
			SD723-349	1.8 J
			SS311-035	13.3
			SS313-687	1.1 JP
			SS4C001-618	6 P
			SS4D008-623	3.9
			SS4D013-629	2.7 P
			SS4D015-631	3.4 P
			SS4F003-635	2.6 P
			SS4F004-636	3 P
			SS505-694	0.69 J
			SS825-713	1.2 JP
			SS-DRUM01-3369	3.78
			SS-DRUM02-3372	2.58
			SS-DRUM05-3381	4.33
			SS-DRUM06-3395	10.6

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
4,4'-DDE	µg/Kg	--	SS-EU011-3327	2.67
			SS-EU021-3328	3.07 J
			SS-EU022-3329	2.58
			SS-EU031-3330	2.94
			SS-EU072-3338	0.387 J
			SS-EU081-3339	0.538 J
			SS-EU103-3345	0.47 J
			SS-EU121-3349	1.46 J
			SS-EU122-3350	1.21 J
			SS-MW229-3617	0.43 J
			SS-MW314-3593	3.08
			SS-MW862-3602	0.942 J
			SS-MW863-3605	5.33 J
			SS-TWP833-3509	0.302 J
			SS-TWP834-3512	0.636 J
			SS-TWP835-3515	1.33 J
			SS-TWP837-3521	0.655 J
			SS-TWP838-3524	0.681 J
			SS-TWP840-3530	0.438 J
			SS-TWP842-3536	0.361 J
			SS-TWP844-3542	0.305 J
			SS-TWP845-3545	0.335 J
			SS-TWP846-3548	0.594 J
			SS-TWP847-3551	0.892 J
			SS-TWP854-3572	0.423 J
			SS-TWP855-3575	0.303 J
			SS-TWP856-3578	1.95
			SS-TWP859-3587	2.44
			TB302-2812-08.0-004	0.24 JP
			TB302-2813-01.0-042	1.6 J
			TB403-2821-04.0-008	0.29 J
			TB403-2822-07.0-024	0.23 J
			TB404-2856-02.3-028	0.37 JP
			TB406-2828-01.0-010	0.6 J
			TB408-2830-03.9-021	2.7 J
			TB408-2831-04.7-054	0.19 JP
			TS809-2904-001	2.9 J

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
4,4'-DDT	µg/Kg	--	SB-BH219-6.0-3661	0.796 J
			SB-BH221-15.0-3663	0.932 J
			SB-BH223-3.0-3665	0.936 J
			SB-BH225-10.0-3667	3.6
			SB-BH226-12.0-3668	1.75 J
			SB-CORE02-0.5-3733	8.58
			SB-CORE03-1.5-3735	1.69
			SB-CORE04-0.5-3737	1.79
			SB-CORE05-0.5-3739	2.46
			SB-CORE06-0.5-3741	1.19 J
			SB-CORE09-0.5-3747	3.44
			SB-DRUM01-3370-1.0	4.28
			SB-DRUM06-3396-1.0	9.02
			SB-EU012-3301-1.0	3.47 J
			SB-EU013-3302-1.0	2.13
			SB-EU014-3303-1.0	0.711 J
			SB-EU022-3306-2.0	0.887 J
			SB-EU023-3307-2.0	0.571 J
			SB-EU031-3308-2.0	0.725 J
			SB-EU032-3309-1.0	0.893 J
			SB-EU052-3313-1.5	0.885 J
			SB-EU061-3314-2.0	1.61
			SB-EU071-3316-2.0	1.86
			SB-EU081-3318-1.5	0.888 J
			SB-EU082-3319-1.5	2.26
			SB-EU092-3321-2.0	2.1
			SB-EU093-3322-2.0	1.14 J
			SB-EU101-3400-1.0	2.24
			SB-EU102-3323-2.0	2.29
			SB-EU103-3324-1.0	3.6
			SB-EU111-3325-1.5	2.65
			SB-EU121-3326-2.0	2.73
			SB-MW422-15.0-3609	0.515 J
			SB-MW861-38.0-3600	1.21 J
			SB-TWP831-15.0-3504	0.989 J
			SB-TWP833-10.0-3510	0.952 J
			SB-TWP836-15.0-3519	1.25 J
			SB-TWP837-19.0-3522	1.81
			SB-TWP839-14.0-3528	0.652 J
			SB-TWP844-11.0-3543	1.2 J
			SB-TWP848-11.0-3555	1.77
			SB-TWP849-11.0-3558	1.7
			SB-TWP850-17.0-3561	1.44 J
			SB-TWP851-18.0-3564	1.94

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
4,4'-DDT	µg/Kg	--	SB-TWP858-16.0-3585	1.72
			SB-TWP859-18.0-3588	2.01
			SS311-035	18.9
			SS4F003-635	5.4
			SS4F004-636	7.3 P
			SS-DRUM01-3369	4.45
			SS-DRUM06-3395	13.1
			SS-EU011-3327	2.24
			SS-EU022-3329	2.06
			SS-EU031-3330	2.58
			SS-EU081-3339	1.29 J
			SS-EU093-3342	0.739 J
			SS-EU103-3345	2.16
			SS-EU121-3349	2.84
			SS-EU122-3350	2.28
			SS-MW229-3617	2.14
			SS-MW314-3593	1.88
			SS-MW861-3599	2.22
			SS-MW862-3602	1.93
			SS-MW863-3605	12.5
			SS-TWP833-3509	0.8 J
			SS-TWP834-3512	1.96
			SS-TWP835-3515	1.82
			SS-TWP836-3518	1.18 J
			SS-TWP837-3521	1.24 J
			SS-TWP838-3524	0.506 J
			SS-TWP839-3527	1.18 J
			SS-TWP843-3539	2.47
			SS-TWP846-3548	1.19 J
			SS-TWP847-3551	1.28 J
			SS-TWP851-3563	1.31 J
			SS-TWP853-3569	0.587 J
			SS-TWP856-3578	2.56
			SS-TWP859-3587	2.02
			TB404-2856-02.3-028	1.2 J
Radionuclides				

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Actinium-227	pCi/g	0.08	SB314-415-1.5	1.41
			SB3A017-2249-1.0	0.862
			SB3B015-2471-1.25	0.652
			SB3C014-2472-1.0	1.56
			SB3C015-2475-1.5	0.752
			SB4A013-2356	0.433
			SB5A016-2254-1.0	8.66
			SB5A016-2255-1.5	9.39
			SB5A016-2256-1.7	4.58
			SB6B005-2360	0.955
			SB826-416-1.3	0.478
			SB8D003-2236-1.0	0.565
			SB8D006-2232-0.8	5.83
			SB8D006-2237-1.5	0.86
			SB8D016-2231-2.0	3.33 J
			SB8E003-2235-1.5	3.4
			SB8F001-2242-1.0	0.687
			SD746-2150	8
			SD747-2152	2.22
			SD748-2153	3.6
			SD750-2155	4.29
			SD752-2241	0.906
			SS102-685	0.278
			SS218-400	2.71
			SS219-401	2.72
			SS220-402	1.95
			SS221-403	9.3
			SS314-404	2.28
			SS3A016-572	0.487
			SS3A021-2392	1.43
			SS3A023-2394	1.29
			SS3A024-2395	0.98
			SS3B011-2398	0.758
			SS3C014-2411	1.44
			SS3C015-2412	1.89
			SS3D001-2414	1.24
			SS3D004-2418	2.98
			SS3D006-2420	3.07
			SS4A014-2271	0.607
			SS4B009-2280	2.26
			SS4B021-2295	0.938
			SS4G002-2365	1.33
			SS5A016-2170	1.51
			SS606-698	18.9

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Actinium-227	pCi/g	0.08	SS6A001-2317	14.2
			SS6B005-2335	1.6
			SS816-703	5.11
			SS821-709	0.341
			SS826-405	0.97
			SS827-406	9.22
			SS829-409	7.34
			SS830-1036	132
			SS8A014-2181	3.6
			SS8B001-2430	1 J
			SS8D003-2190	3.3
			SS8D004-2191	3.5 J
			SS8D006-2193	0.782
			SS8D007-2195	1.32
			SS8D009-2197	24
			SS8F001-2201	3.77
			SS8F003-2203	1.51
			SS8F005-2206	1.26
			SS8H001-2443	0.629
			SS913-2105	1.08
			SS-EU061-3335	0.579
			SS-MW313-3590	0.507
			TB301-2811-01.0-029	1.7
			TB411-2837-01.5-052	0.455
			TB802-2902-04.0-018	0.487
			TB802A-2903-03.8-096	1.61

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	15.1	SB206-090-9	19.6
			SB214-098-15	18.7
			SB217-101-13	15.6
			SB218-410-2.0	17.1
			SB219-411-2.0	17.3
			SB220-412-1.0	22.8
			SB221-413-2.0	23.7
			SB304-106-9	17.7
			SB312-117-15	15.6
			SB314-415-1.5	103
			SB401-118-20	16.5
			SB404-121-1.4	43.7
			SB406-123-18	15.8
			SB415-136-14	15.3
			SB417-138-8.9	25.1
			SB4A013-2356	57.1
			SB4A013-2357	69.9
			SB4A013-2358	46.7
			SB4A015-2355	49.9
			SB4B014-2353	20
			SB4C002-2352	16
			SB4D003-656-14.5	15.3
			SB4G002-2366	18.7
			SB4G002-2367	15.5
			SB501-144-12	18.3
			SB502-145-13	16.3
			SB602-151-15	16.3
			SB6A001-2362	416
			SB6A001-2363	404
			SB6B005-2359	513
			SB6B005-2360	168
			SB6B005-2361	40.2
			SB803-156-7.5	20.3
			SB804-157-7.5	15.8
			SB807-160-18.2	19.5
			SB812-165-10	16
			SB826-416-1.3	60.5
			SB827-417-2.0	75.7
			SB828-418-0.5	21
			SB829-419-1.3	21.3
			SB830-1037-2.0	48.5
			SB902-2082-2.0	16.9
			SB905-2090-2.0	17.3
			SB-BH223-3.0-3665	21.8

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	15.1	SB-DRUM01-3370-1.0	15.6
			SB-DRUM07-3399-1.0	16.4
			SB-EU042-3311-1.0	16.2
			SB-EU101-3400-1.0	25.9
			SB-EU102-3323-2.0	35.8
			SB-MW228-11.0-3615	15.6
			SB-MW314-15.0-3594	17.9
			SD701-293	21.4
			SD703-297	68.2
			SD704-302	17.8
			SD711-317	66.4
			SD714-326	15.5
			SD719-341	19.6
			SD723-349	18.1
			SD724-351	20.2
			SD725-353	21.9
			SD737-381	16
			SD741-672	16.6
			SD743-675	26.5
			SD745-677	48.4
			SD911-2101	18.5
			SD912-2103	18.7
			SD914-2108	24.5
			SS201-001	29.8
			SS203-003	121
			SS205-008	38.9
			SS207-010	16.9
			SS208-011	19.1
			SS209-012	16.1
			SS211-015	34.1
			SS212-016	19.6
			SS213-017	16
			SS214-018	21.7
			SS215-019	19.2
			SS216-020	22.8
			SS218-400	284
			SS219-401	99.2
			SS220-402	60.3
			SS221-403	3030
			SS301-025	20.6
			SS302-026	15.4
			SS303-027	15.3
			SS304-028	20.9
			SS305-029	16.8

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	15.1	SS306-030	20.8
			SS308-032	84.8
			SS309-033	32.9
			SS310-034	15.2
			SS311-035	56.3
			SS312-036	55.8
			SS314-404	172
			SS402-039	92.4
			SS403-040	20.7
			SS404-041	46.5
			SS405-042	19
			SS406-043	31.8
			SS411-048	23.4
			SS412-049	15.6
			SS413-050	21
			SS415-052	19.7
			SS417-054	20.2
			SS419-056	19.8
			SS420-057	15.6
			SS421-058	21
			SS4C003-2299	18.9
			SS502-060	23.2
			SS503-064	230
			SS603-068	15.8
			SS801-070	17.7
			SS802-071	16.9
			SS804-073	22.1
			SS805-074	21.8
			SS806-075	21.1
			SS807-076	19.8
			SS808-077	19.6
			SS826-405	42.8
			SS827-406	536
			SS829-409	1390
			SS830-1036	3840
			SS905-2089	17
			SS906-2091	15.7
			SS907-2093	17.9
			SS909-2097	16
			SS913-2105	83.3
			SS-DRUM01-3369	19.9
			SS-DRUM02-3372	26.1
			SS-EU031-3330	15.7
			SS-EU061-3335	26.4

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	15.1	SS-EU101-3343	19.3
			SS-EU121-3349	22.3
			SS-EU123-3351	17.1 J
			SS-MW313-3590	35.3
			SS-TWP832-3506	18.8
			SS-TWP833-3509	34.6
			SS-TWP844-3542	16.2
			SS-TWP848-3554	17.2
			SS-TWP857-3581	27.1
			TS812-2928-062	19000

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	28.9	SB202-086-10	34.4
			SB203-087-12	32.2
			SB206-090-9	32.3
			SB208-092-12	34.9
			SB212-096-12.5	34.7
			SB213-097-12.5	34.3
			SB216-100-10.5	36.5
			SB218-410-2.0	31.7
			SB220-412-1.0	30
			SB301-103-10	29
			SB304-106-9	32.2
			SB314-415-1.5	54.4
			SB403-120-18	33.9
			SB404-121-1.4	29.8
			SB406-123-18	29.7
			SB417-138-8.9	30.3
			SB4A013-2356	36
			SB4A013-2357	35.2
			SB4A015-2355	32.8
			SB4D003-656-14.5	35.4
			SB501-144-12	31.3
			SB502-145-13	32.9
			SB604-153-15	30.7
			SB6A001-2362	191
			SB6A001-2363	221
			SB6B005-2359	214
			SB6B005-2360	114
			SB6B005-2361	48.2
			SB802-155-17	30.1
			SB803-156-7.5	40.7
			SB805-158-7.5	32.4
			SB807-160-18.2	32.2
			SB826-416-1.3	44.2
			SB827-417-2.0	53.6
			SB830-1037-2.0	81.6
			SB902-2082-2.0	31.5
			SB903-2085-2.0	30.7
			SB913-2474-1.5	29.5
			SB-BH218-15.0-3660	31.2
			SB-BH220-20.0-3662	33
			SB-BH226-12.0-3668	32.6
			SB-EU102-3323-2.0	53.1
			SB-MH06-8.5-3650	30
			SB-MW228-11.0-3615	37.7

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	28.9	SB-MW229-11.0-3614	35.9
			SB-MW314-15.0-3594	40.8
			SB-TWP832-12.5-3507	30
			SB-TWP838-14.0-3525	30
			SB-TWP839-14.0-3528	33
			SB-TWP843-10.0-3540	30.1
			SB-TWP847-10.0-3552	30.3
			SD703-297	39.9
			SD711-317	38.3
			SD725-353	31.1
			SD731-368	32.4
			SD743-675	30.4
			SD744-676	29.1
			SD745-677	44.1
			SD911-2101	32.8
			SD914-2108	43.4
			SD-CD1-3401-0.67	29.6
			SS201-001	29.5
			SS203-003	70.1
			SS211-015	30.6
			SS212-016	32.9
			SS216-020	32
			SS218-400	153
			SS219-401	72
			SS220-402	50.4
			SS221-403	1180
			SS301-025	33.9
			SS308-032	47.6
			SS309-033	34.2
			SS311-035	37.6
			SS312-036	43.5
			SS314-404	94.2
			SS402-039	35
			SS404-041	31.8
			SS406-043	29.9
			SS411-048	35.4
			SS502-060	34.3
			SS503-064	219
			SS801-070	38.6
			SS826-405	39.3
			SS827-406	301
			SS829-409	739
			SS830-1036	1830
			SS905-2089	31.4

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	28.9	SS907-2093	33.2
			SS909-2097	31.3
			SS913-2105	49.7
			SS-MW313-3590	36.1
			SS-TWP832-3506	29.1
			SS-TWP833-3509	43.5
			SS-TWP854-3572	31.1
			SS-TWP857-3581	38.5
			TS812-2928-062	15100

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/g	0.343	SB310-115-8.5	0.633 J
			SB314-415-1.5	0.421
			SB3A017-2249-1.0	0.49
			SB3C015-2475-1.5	0.371
			SB3D001-2476-1.0	0.866
			SB4A013-2357	0.36
			SB5A016-2255-1.5	0.434
			SB804-157-7.5	0.473 J
			SB811-164-23	0.429 J
			SB8D003-2233-0.75	1.16
			SB8D003-2236-1.0	0.417
			SB8D016-2231-2.0	5.15 J
			SB-DRUM01-3370-1.0	0.467
			SB-DRUM06-3396-1.0	0.375
			SD714-326	0.399 J
			SD734-375	0.808 J
			SD737-381	0.607 J
			SD746-2150	0.49
			SD748-2153	0.428
			SD752-2241	0.472
			SS1A002-2158	0.35
			SS219-401	0.679
			SS2A006-2369	0.447
			SS2A008-2371	0.47
			SS2B002-534	0.438
			SS2B003-535	0.542
			SS2D001-547	0.572
			SS2D002-548	0.508
			SS2D003-549	0.484
			SS2D004-550	0.542
			SS2D005-551	0.424
			SS2D006-552	0.646
			SS2D008-554	0.433
			SS2D012-2384	0.739
			SS306-030	0.619 J
			SS313-687	0.456
			SS314-404	1.22
			SS3A001-555	0.602
			SS3A002-556	0.611
			SS3A003-557	0.52
			SS3A004-559	0.399
			SS3A005-560	0.474
			SS3A006-561	0.773
			SS3A007-562	0.852

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/g	0.343	SS3A013-569	0.579
			SS3A016-572	0.565
			SS3A017-2162	0.719
			SS3A020-2389	0.612
			SS3A021-2392	0.842
			SS3A023-2394	0.806
			SS3B002-575	0.458
			SS3B003-576	0.894
			SS3B004-577	0.557
			SS3B005-578	0.352
			SS3B007-580	0.414
			SS3B010-583	0.515
			SS3B011-2398	1.08
			SS3C001-584	0.466
			SS3C002-585	0.586
			SS3C003-586	0.4
			SS3C004-587	0.448
			SS3C005-588	0.47
			SS3C006-589	0.484
			SS3C007-590	0.903
			SS3C008-591	0.574
			SS3C014-2411	0.468
			SS3C015-2412	0.548
			SS3C016-2413	0.393
			SS3D001-2414	2.23
			SS3D002-2415	3
			SS3D009-2423	0.366
			SS414-051	1.92 J
			SS417-054	0.351 J
			SS418-055	0.493 J
			SS422-688	1.29
			SS4A002-600	0.429
			SS4A003-601	0.56
			SS4A004-602	0.408
			SS4A007-605	0.817
			SS4A013-2270	0.385
			SS4A016-2275	0.402
			SS4A019-2425	0.533
			SS4B003-614	0.384
			SS4B006-617	0.359
			SS4B008-2279	0.375
			SS4C001-618	0.379
			SS4C006-2303	0.383
			SS4D005-619	0.403

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/g	0.343	SS4D006-620	0.379
			SS4D008-623	0.413
			SS4D009-625	0.38
			SS4D010-626	0.431
			SS4D011-627	0.585
			SS4D012-628	0.35
			SS4D013-629	0.439
			SS4D015-631	0.431
			SS4D019-2308	0.347
			SS4D020-2309	0.396
			SS4F001-633	0.374
			SS4F002-634	0.389
			SS4F003-635	0.395
			SS4F005-2311	0.364
			SS4F007-2313	0.359
			SS504-692	0.864
			SS5A001-637	1.13
			SS5A004-640	1.07
			SS5A010-2164	0.417
			SS5A011-2165	0.402
			SS5A012-2166	0.423
			SS5A013-2167	0.391
			SS601-065	0.406 J
			SS6A003-2320	0.375
			SS6C001-2337	0.357
			SS6C003-2339	0.345
			SS811-080	0.377 J
			SS817-704	1.27
			SS818-705	0.469
			SS829-409	0.848
			SS8B003-2433	0.357
			SS8B006-2436	0.452
			SS8D001-2188	0.449
			SS8D003-2190	1.07
			SS8E002-2199	0.473 J
			SS8F001-2201	0.585
			SS8F005-2206	0.381
			SS8G002-2344	0.435
			SS8G005-2347	0.672
			SS8H001-2443	0.688
			SS8H002-2444	0.388
			SS-DRUM01-3369	0.669
			SS-DRUM02-3372	1.02
			SS-DRUM04-3378	0.377

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/g	0.343	SS-DRUM05-3381	0.522 J
			SS-DRUM06-3395	0.506
			SS-DRUM07-3398	0.42
			SS-EU021-3328	0.399
			SS-MW313-3590	0.443
			SS-MW314-3593	0.363
			TB301-2811-01.0-029	4.88
			TB414-2846-01.0-043	0.53
Plutonium-239/240	pCi/g	--	SB3D001-5.0-3632	0.322
			SB-CORE01-0.5-3731	0.536
			TS812-2928-062	0.129
Potassium-40	pCi/g	32.9	SB5A018-2211-2.0	48.7

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	SB219-411-2.0	1.61
			SB220-412-1.0	10.7
			SB221-413-2.0	1.48
			SB2A005-2220-1.7	1.69
			SB2A005-2240	3.41
			SB314-415-1.5	28.1
			SB3A017-2249-1.0	16.7
			SB3B015-2471-1.25	6.43
			SB3C014-2472-1.0	10.6
			SB3C015-2475-1.5	9.95
			SB3D001-2476-1.0	5.63
			SB404-121-1.4	7.72
			SB404-121-25	1.43
			SB4A013-2356	5.06
			SB4A013-2357	5.15
			SB4A013-2358	4.35
			SB4A014-2272-1.0	8.05
			SB4A015-2355	7.42
			SB4B009-2281-2.0	2.28
			SB4B014-2353	4.25
			SB4B021-2296-2.0	1.37
			SB4C002-2351	2.67
			SB4C002-2352	2.29
			SB5A010-2257-1.0	5.03
			SB5A013-2210-2.0	1.44
			SB5A016-2254-1.0	155
			SB5A016-2255-1.5	151
			SB5A016-2256-1.7	85.7
			SB5A018-2211-2.0	2.14
			SB6A001-2318-2.0	6.33
			SB6A001-2362	79.9
			SB6A001-2363	167
			SB6A006-2324-2.0	1.27
			SB6B005-2359	70.1
			SB6B005-2360	9.5
			SB752-2250-1.5	3.31
			SB752-2252-1.0	14.4
			SB804-157-7.5	1.31
			SB811-164-23	1.33
			SB826-416-1.3	5.99
			SB827-417-2.0	8.37
			SB828-418-0.5	8.33
			SB829-419-1.3	3.72
			SB830-1037-2.0	2.25

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	SB8A003-2217-2.0	1.6
			SB8A009-2218-2.0	1.65
			SB8D003-2233-0.75	44.5
			SB8D003-2236-1.0	7.17
			SB8D004-2222-1.8	3.79
			SB8D006-2232-0.8	143
			SB8D006-2237-1.5	14.2
			SB8D006-2238-2.0	7.94
			SB8D007-2223-1.8	5.68
			SB8D009-2224-2.0	10
			SB8D016-2231-2.0	19.1 J
			SB8E003-2235-1.5	74.8
			SB8F001-2242-1.0	14.3
			SB8F001-2243-1.5	11.3
			SB8F005-2245-1.0	6.14
			SB8F006-2246-1.5	1.23
			SB8F006-2247-1.5	1.31
			SB8F006-2251-1.0	1.99
			SB905-2090-2.0	1.68
			SB-BH223-3.0-3665	1.24
			SB-DRUM01-3370-1.0	1.66
			SB-DRUM07-3399-1.0	1.36
			SB-EU042-3311-1.0	1.34
			SB-EU082-3319-1.5	1.51
			SB-EU101-3400-1.0	3.8
			SD703-297	8.52
			SD704-302	1.37
			SD711-317	16
			SD723-349	1.55
			SD732-370	1.21
			SD737-381	1.3
			SD741-672	1.64
			SD744-676	2.4
			SD745-677	1.52
			SD746-2150	184
			SD746-2244	3.34
			SD746-2248	50
			SD747-2152	37.1
			SD747-2253	2.57
			SD748-2153	58.6
			SD748-2239	10.5
			SD750-2155	75.7
			SD750-2216	3.42
			SD752-2241	25.7

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	SEDC06-08-2146	5.95
			SS101-684	1.64
			SS1A002-2158	2.04
			SS201-001	1.66
			SS203-003	1140
			SS205-008	7.87
			SS206-009	1.72
			SS207-010	1.53
			SS209-012	1.42
			SS210-014	1.66
			SS211-015	3.92
			SS212-016	1.71
			SS213-017	1.36
			SS215-019	1.41
			SS216-020	1.52
			SS217-021	1.45
			SS218-400	29.6
			SS219-401	24.1
			SS220-402	33.4
			SS221-403	127
			SS2A004-2173	4.18
			SS2A006-2369	5.46
			SS2A008-2371	8.65
			SS2A009-2373	1.34
			SS2B001-532	1.41
			SS2B002-534	3.43
			SS2B003-535	1.81
			SS2B004-536	1.47
			SS2B007-540	1.56
			SS2B008-541	1.47
			SS2B014-2374	126
			SS2C002-2380	1.65
			SS2D001-547	1.47
			SS2D002-548	1.59
			SS2D003-549	2.13
			SS2D005-551	1.77
			SS2D006-552	1.57
			SS2D007-553	1.83
			SS2D008-554	1.46
			SS2D011-2383	1.37
			SS2D012-2384	10.7
			SS2D013-2385	5.92
			SS303-027	3.84
			SS304-028	1.61

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	SS305-029	1.27
			SS308-032	3.56
			SS309-033	2.58
			SS310-034	1.56
			SS311-035	6.58
			SS312-036	7.49
			SS313-687	1.52
			SS314-404	55.4
			SS3A001-555	2.57
			SS3A002-556	4.06
			SS3A003-557	3.2
			SS3A004-559	2.67
			SS3A005-560	3.87
			SS3A006-561	6.31
			SS3A007-562	5.5
			SS3A008-563	2.26
			SS3A009-565	2.86
			SS3A010-566	2.35
			SS3A011-567	1.77
			SS3A012-568	1.97
			SS3A013-569	5.51
			SS3A016-572	4.21
			SS3A017-2162	15.1
			SS3A020-2389	8.54
			SS3A021-2392	21
			SS3A022-2393	1.48
			SS3A023-2394	17.6
			SS3A024-2395	10.7
			SS3A025-2397	2.6
			SS3B002-575	2.05
			SS3B003-576	7.91
			SS3B004-577	4.16
			SS3B005-578	2.94
			SS3B007-580	2.96
			SS3B010-583	2.84
			SS3B011-2398	12.5
			SS3B012-2401	1.79
			SS3B013-2402	5.7
			SS3B014-2404	1.7
			SS3B015-2405	12.4
			SS3B016-2406	2.32
			SS3B017-2407	2.61
			SS3B018-2409	1.4
			SS3B019-2410	1.24

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	SS3C001-584	1.95
			SS3C002-585	2.31
			SS3C003-586	1.51
			SS3C004-587	1.86
			SS3C005-588	1.98
			SS3C006-589	2.65
			SS3C007-590	2.5
			SS3C008-591	1.8
			SS3C011-594	1.36
			SS3C012-596	2.19
			SS3C013-597	1.58
			SS3C014-2411	13.4
			SS3C015-2412	19.6
			SS3C016-2413	1.94
			SS3D001-2414	19.3
			SS3D002-2415	2.03
			SS3D004-2418	50.2
			SS3D006-2420	82.1
			SS3D007-2421	7.3
			SS3D008-2422	1.43 J
			SS3D009-2423	1.77
			SS401-037	1.39
			SS402-039	9.49
			SS403-040	1.58
			SS404-041	4.5
			SS405-042	1.62
			SS406-043	2.15
			SS407-044	1.98
			SS409-046	1.28
			SS410-047	1.27
			SS413-050	2.01
			SS414-051	1.64
			SS415-052	1.67
			SS417-054	4.45
			SS418-055	1.35
			SS420-057	2.35
			SS422-688	2.33
			SS423-689	1.92
			SS4A001-598	1.64
			SS4A002-600	1.41
			SS4A003-601	5.35
			SS4A004-602	1.87
			SS4A005-603	1.83
			SS4A006-604	1.69

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	SS4A007-605	3.27
			SS4A008-606	1.3
			SS4A010-608	1.34
			SS4A011-610	1.92
			SS4A013-2270	6
			SS4A014-2271	8.48
			SS4A015-2274	7.17
			SS4A019-2425	4.49
			SS4B001-612	3.09
			SS4B002-613	2.66
			SS4B003-614	2.14
			SS4B005-616	1.41
			SS4B006-617	1.72
			SS4B007-2278	1.4
			SS4B008-2279	1.71
			SS4B009-2280	37.5
			SS4B010-2282	7.31
			SS4B014-2288	15.2
			SS4B015-2289	2.05
			SS4B016-2290	2.36
			SS4B017-2291	7.14
			SS4B019-2293	1.44
			SS4B021-2295	17.6
			SS4C002-2298	5.83
			SS4C003-2299	1.78
			SS4C004-2300	3.72
			SS4C006-2303	1.33
			SS4D005-619	1.73
			SS4D006-620	1.21
			SS4D008-623	1.48
			SS4D010-626	1.95
			SS4D011-627	2.34
			SS4D012-628	2.69
			SS4D013-629	1.86
			SS4D014-630	1.51
			SS4D015-631	2.32
			SS4D017-2306	4.66
			SS4D019-2308	2.95
			SS4D020-2309	1.43
			SS4F003-635	1.23
			SS4F004-636	1.26
			SS4G002-2365	43.9
			SS504-692	6.07
			SS5A010-2164	5.36

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	SS5A011-2165	1.92
			SS5A012-2166	4.57
			SS5A013-2167	3.72
			SS5A014-2168	4.79
			SS5A016-2170	13.4
			SS5A021-2214	6.39
			SS606-698	103
			SS607-699	1.3
			SS6A001-2317	285
			SS6A003-2320	2.24
			SS6A005-2323	2.54
			SS6A006-2325	1.34
			SS6A010-2364	3.39
			SS6B001-2330	2.78
			SS6B005-2335	29.3
			SS6C006-2342	1.25
			SS801-070	1.81
			SS802-071	1.25
			SS805-074	1.5
			SS806-075	1.27
			SS807-076	1.7
			SS813-700	1.37
			SS814-701	2.71
			SS815-702	3.07
			SS816-703	299
			SS817-704	2.72
			SS818-705	1.66
			SS820-708	2.19
			SS826-405	13.2
			SS827-406	185
			SS829-409	182
			SS830-1036	386
			SS8A002-2174	3.01
			SS8A003-2175	47.9
			SS8A004-2176	6.2
			SS8A005-2177	2.12
			SS8A010-2182	1.24
			SS8A014-2181	67.9
			SS8B001-2430	16.8 J
			SS8B003-2433	1.21
			SS8B006-2436	1.33
			SS8B010-2442	1.83
			SS8C001-2184	1.86
			SS8D001-2188	3.78

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	SS8D003-2190	45.5
			SS8D004-2191	42.2 J
			SS8D006-2193	13.4
			SS8D007-2195	14.9
			SS8D009-2197	446
			SS8E001-2198	1.27
			SS8E002-2199	1.98 J
			SS8F001-2201	61.5
			SS8F003-2203	45.9
			SS8F005-2206	18.9
			SS8F006-2207	7.32
			SS8G001-2343	1.5
			SS8G002-2344	1.35
			SS8H001-2443	7.49
			SS8H002-2444	15.1 J
			SS905-2089	2.07
			SS906-2091	1.84
			SS913-2105	17.8
			SS-DRUM01-3369	2.38
			SS-DRUM02-3372	2.54
			SS-DRUM04-3378	1.41
			SS-DRUM07-3398	1.78
			SS-EU011-3327	1.49
			SS-EU021-3328	1.31
			SS-EU051-3334	3.56
			SS-EU061-3335	4.1
			SS-EU072-3338	1.46
			SS-EU101-3343	2.69
			SS-EU121-3349	1.46
			SS-EU123-3351	1.39
			SS-MW313-3590	4.51
			SS-MW314-3593	1.42
			SS-TWP844-3542	1.3
			SS-TWP848-3554	1.76
			TB203-2806-01.0-013	2.33
			TB301-2811-01.0-029	17.4
			TB302-2813-01.0-042	1.35
			TB303-2816-01.0-016	1.24
			TB403-2821-04.0-008	1.24
			TB406-2827-02.0-027	3.38
			TB408-2830-03.9-021	1.58
			TB411-2836-01.5-034	2.12
			TB411-2837-01.5-052	7.68
			TB802-2901-04.2-008	2.68 J

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	1.2	TB802-2902-04.0-018	7.83
			TB802A-2903-03.8-096	34.5
			TB808-2851-01.5-020	1.41
			TB808-2852-01.5-016	1.3
			TB809-2906-01.0-045	1.9
			TB810-2908-01.8-041	82.7
			TB811-2912-04.0-047	1.23
			TB813-2925-08.0-013	32.6
			TB813-2926-01.0-021	1.65
			TS203-2808-020	1.64
			TS809-2904-001	3.09
			TS809-2905-007	3.39
			TS812-2928-062	9.64
Radium-228	pCi/g	1.26	SB2A001-645-11.0	1.33
			SB2B001-648-16.0	1.31
			SB2B002-649-9.5	1.37
			SB4A014-2272-1.0	1.35
			SB4D004-657-14.5	1.39
			SB5A010-2257-1.0	1.75
			SB5A018-2211-2.0	2.53
			SB8E003-2235-1.5	1.37
			SB-MH07/08-11.0-3652	1.28
			SD911-2101	1.5
			SS2D011-2383	1.27
			SS4A015-2274	1.32
			SS5A006-642	1.44
			SS5A010-2164	1.61
			SS5A012-2166	1.5
			SS5A013-2167	1.41
			SS5A014-2168	2.08
			SS5A021-2214	2.43
			SS827-406	1.35
			SS8A014-2181	1.49
			SS8F003-2203	1.27
			SS8F006-2207	3.18
			SS903-2083	1.33

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-228	pCi/g	1.64	SB220-412-1.0	2.1
			SB2B001-648-16.0	1.69
			SB2B002-649-9.5	1.66
			SB3D002-5.0-3633	1.81
			SB4A013-2357	2.09
			SB4A015-2355	1.8
			SB4B014-2353	1.8
			SB4B014-2354	2.34
			SB4D004-657-14.5	1.91
			SB4D005-658-15.5	4.66
			SB4G002-2366	1.83
			SB4G002-2367	1.75
			SB506-725-13.0	1.87
			SB5A010-2257-1.0	1.65
			SB6A001-2362	1.77
			SB819-736-9.0	1.95
			SB-BH219-6.0-3661	2.13
			SB-BH223-3.0-3665	1.7
			SB-BH225-10.0-3667	1.76
			SB-CORE09-0.5-3747	1.8
			SB-EU013-3302-1.0	1.67
			SB-EU032-3309-1.0	1.66
			SB-EU062-3315-2.0	1.71
			SB-EU071-3316-2.0	1.69
			SB-MH07-11.0-3651	2.53
			SB-MH41-8.0-3656	1.68
			SB-TWP838-14.0-3525	1.67
			SB-TWP841-10.0-3534	1.8
			SB-TWP843-10.0-3540	1.71
			SB-TWP848-11.0-3555	1.74
			SD742-674	1.66
			SD915-2109	1.76
			SS219-401	1.96
			SS313-687	1.72
			SS3A002-556	1.86
			SS4C003-2299	1.7
			SS4D005-619	1.68
			SS5A006-642	2.38
			SS5A010-2164	1.79
			SS5A021-2214	2.01
			SS605-697	1.69
			SS815-702	1.7
			SS827-406	1.74
			SS-EU113-3348	1.71

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-228	pCi/g	1.64	SS-EU123-3351	2.08 J
			SS-MW313-3590	1.66
			SS-MW424-3620	1.96
			SS-TWP851-3563	1.69
			SS-TWP852-3566	1.65
			TB202-2805-03.0-062	1.65
			TB408-2830-03.9-021	1.68

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SB219-411-2.0	1.57
			SB220-412-1.0	2.01
			SB221-413-2.0	2.38
			SB2A005-2220-1.7	2.37
			SB2A005-2240	4.88
			SB2B001-648-16.0	1.64
			SB306-111-12.5	1.49 J
			SB314-415-1.5	8.12
			SB3A017-2249-1.0	6.18
			SB3A017-5.0-3635	1.56
			SB3B011-2399-2.0	1.8
			SB3B015-2471-1.25	5.02
			SB3B015-5.0-3637	1.88
			SB3C014-2472-1.0	9.46
			SB3C015-2475-1.5	22.3
			SB3D001-2476-1.0	4.99
			SB404-121-1.4	8.12
			SB421-143-16	1.51 J
			SB4A013-2356	7.84
			SB4A013-2357	9.7
			SB4A013-2358	4.95
			SB4A014-2272-1.0	5.64
			SB4A015-2355	6.31
			SB4B014-2353	3.09
			SB4C002-2351	1.65
			SB4C002-2352	1.72
			SB4D004-657-14.5	1.5
			SB505-723-17.0	1.97
			SB506-725-13.0	1.43
			SB5A010-2257-1.0	3.65
			SB5A013-2210-2.0	12.6
			SB5A016-2254-1.0	354
			SB5A016-2255-1.5	344
			SB5A016-2256-1.7	227
			SB5A019-2212-1.75	1.47
			SB6A001-2318-2.0	1.63
			SB6A001-2362	6.12
			SB6A001-2363	6.98
			SB6B005-2359	14.5
			SB6B005-2360	3.89
			SB752-2250-1.5	4.84
			SB752-2252-1.0	12.3
			SB814-731-19	1.41
			SB823-740-13.0	1.41

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SB826-416-1.3	13.2
			SB827-417-2.0	3.35
			SB828-418-0.5	3.13
			SB830-1037-2.0	3.63
			SB8A001-2221-2.0	1.51
			SB8A003-2217-2.0	2.79
			SB8A009-2218-2.0	2.57
			SB8D003-2233-0.75	8.06
			SB8D003-2236-1.0	3.56
			SB8D006-2232-0.8	98.3
			SB8D006-2237-1.5	24.3
			SB8D006-2238-2.0	8.96
			SB8D007-2223-1.8	3.7
			SB8D009-2224-2.0	25.3
			SB8D016-2231-2.0	21.9 J
			SB8D016-3.5-3634	1.76
			SB8E003-2235-1.5	38.5
			SB8F001-2242-1.0	3.37
			SB8F001-2243-1.5	2.29
			SB8F005-2245-1.0	6.85
			SB8F006-2246-1.5	1.91
			SB8F006-2251-1.0	1.81
			SB905-2090-2.0	2.1
			SB-BH221-15.0-3663	1.48
			SB-BH223-3.0-3665	1.49
			SB-DRUM01-3370-1.0	2.58
			SB-DRUM04-3379-1.0	1.4
			SB-DRUM05-3382-1.0	2.64
			SB-DRUM06-3396-1.0	2.07
			SB-DRUM07-3399-1.0	2.86
			SB-EU012-3301-1.0	2.62
			SB-EU013-3302-1.0	1.81
			SB-EU023-3307-2.0	1.91
			SB-EU032-3309-1.0	2.03
			SB-EU042-3311-1.0	2.13
			SB-EU061-3314-2.0	1.49
			SB-EU072-3317-1.5	1.99
			SB-EU081-3318-1.5	1.65
			SB-EU082-3319-1.5	1.62
			SB-EU093-3322-2.0	1.51
			SB-EU101-3400-1.0	7.42
			SB-MH07-11.0-3651	1.62
			SB-MH41-8.0-3656	1.47
			SB-MH43-9.0-3655	1.46

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SB-MH45-9.0-3654	1.5
			SB-MW229-11.0-3614	1.95 J
			SB-MW229-28.5-3618	1.47
			SB-MW314-15.0-3594	2.31
			SB-MW423-15.0-3612	1.82
			SB-MW862-11.5-3603	1.62
			SB-TWP838-14.0-3525	1.6
			SB-TWP841-10.0-3534	1.8
			SB-TWP843-10.0-3540	1.91
			SB-TWP847-10.0-3552	1.62 J
			SB-TWP848-11.0-3555	1.49
			SB-TWP858-16.0-3585	1.61 J
			SD703-297	10.1
			SD704-302	1.82 J
			SD711-317	11.4
			SD719-341	2.08 J
			SD723-349	2.1 J
			SD743-675	2.12
			SD745-677	8.96
			SD746-2150	230
			SD746-2244	4.82
			SD746-2248	55.7
			SD747-2152	48.1
			SD747-2253	3.53
			SD748-2153	71.4
			SD748-2239	17.8
			SD750-2155	109
			SD750-2216	7.04
			SD752-2241	18.2
			SD915-2109	1.65
			SD-WD1-3406-0.5	1.66
			SEDC06-08-2146	4.86
			SS101-684	1.94
			SS102-685	1.45
			SS1A001-2157	1.57
			SS1A002-2158	1.88
			SS201-001	3.48
			SS203-003	6.48
			SS204-004	2.17
			SS205-008	3.47
			SS206-009	1.65
			SS207-010	2.32
			SS208-011	1.79
			SS209-012	2.01

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SS210-014	2.01
			SS211-015	7.39
			SS212-016	2.88
			SS213-017	1.69
			SS214-018	1.54
			SS216-020	3.13
			SS217-021	2.17
			SS218-400	69.6
			SS219-401	39.2
			SS220-402	8.24
			SS221-403	978
			SS2A002-530	1.57
			SS2A004-2173	6.31
			SS2A006-2369	8.04
			SS2A008-2371	14
			SS2A009-2373	2.93
			SS2B001-532	1.42
			SS2B002-534	2.54
			SS2B003-535	3.94
			SS2B007-540	2.81
			SS2B008-541	2.76
			SS2B009-542	1.99
			SS2B010-543	1.46
			SS2B014-2374	4.3
			SS2C002-2380	2.32
			SS2D001-547	2.75
			SS2D002-548	2.97
			SS2D003-549	3.26
			SS2D005-551	2.39
			SS2D006-552	1.91
			SS2D007-553	1.64
			SS2D008-554	2.84
			SS2D009-2381	1.73
			SS2D011-2383	2.29
			SS2D012-2384	4.2
			SS2D013-2385	3.36
			SS303-027	3.48 J
			SS304-028	1.8 J
			SS306-030	1.87 J
			SS308-032	14.2
			SS309-033	5.64
			SS310-034	1.92 J
			SS311-035	15.6
			SS312-036	10.3

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SS313-687	1.87
			SS314-404	15.8
			SS3A001-555	2.45
			SS3A002-556	7.36
			SS3A003-557	4.18
			SS3A004-559	5.17
			SS3A005-560	7.79
			SS3A006-561	9.35
			SS3A007-562	8.82
			SS3A008-563	2.33
			SS3A009-565	3.21
			SS3A010-566	3.69
			SS3A011-567	2.61
			SS3A012-568	2.25
			SS3A013-569	7.3
			SS3A016-572	5.79
			SS3A017-2162	7.59
			SS3A021-2392	21.8
			SS3A022-2393	1.53
			SS3A023-2394	11.5
			SS3A024-2395	8.85
			SS3A025-2397	3.87
			SS3B001-573	2.15
			SS3B002-575	3.32
			SS3B003-576	8.65
			SS3B004-577	6.88
			SS3B005-578	3.24
			SS3B007-580	3.09
			SS3B008-581	1.43
			SS3B010-583	5.68
			SS3B011-2398	16.9
			SS3B012-2401	2.75
			SS3B013-2402	12.5
			SS3B014-2404	2.71
			SS3B015-2405	9.85
			SS3B016-2406	3.47
			SS3B017-2407	3.09
			SS3B018-2409	1.94
			SS3B019-2410	2.42
			SS3C001-584	3.61
			SS3C002-585	4.23
			SS3C003-586	2.94
			SS3C004-587	2.72
			SS3C005-588	5.23

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SS3C006-589	10.7
			SS3C007-590	10.8
			SS3C008-591	1.83
			SS3C009-592	1.71
			SS3C011-594	1.86
			SS3C012-596	2.44
			SS3C013-597	2.9
			SS3C014-2411	10.1
			SS3C015-2412	87.9
			SS3C016-2413	3.12
			SS3D001-2414	11.2
			SS3D002-2415	2.24
			SS3D004-2418	7.87
			SS3D006-2420	32.9
			SS3D007-2421	7.54
			SS3D008-2422	2.05 J
			SS3D009-2423	2.25
			SS401-037	1.62
			SS402-039	10.8
			SS403-040	2.15
			SS404-041	9.54
			SS406-043	2.27
			SS407-044	1.54
			SS410-047	1.5 J
			SS412-049	2.05
			SS413-050	2.83
			SS414-051	2.09 J
			SS415-052	2.1 J
			SS417-054	2.63 J
			SS418-055	1.46 J
			SS419-056	1.42 J
			SS422-688	1.79
			SS4A001-598	2.67
			SS4A002-600	1.88
			SS4A003-601	3.62
			SS4A004-602	2.25
			SS4A005-603	2.18
			SS4A006-604	2.05
			SS4A007-605	6.29
			SS4A008-606	1.45
			SS4A010-608	1.43
			SS4A011-610	3.38
			SS4A012-611	2.72
			SS4A013-2270	11.2

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SS4A014-2271	6.3
			SS4A015-2274	5.36
			SS4A016-2275	1.66
			SS4A018-2277	1.53
			SS4A019-2425	2.46
			SS4B001-612	4.47
			SS4B002-613	3.7
			SS4B003-614	2.37
			SS4B005-616	1.5
			SS4B006-617	1.94
			SS4B007-2278	2.37
			SS4B008-2279	2.14
			SS4B009-2280	8.46
			SS4B010-2282	12.1
			SS4B013-2285	2.22
			SS4B014-2288	2.96
			SS4B015-2289	2.56
			SS4B016-2290	3.32
			SS4B017-2291	1.55
			SS4B019-2293	1.65
			SS4B021-2295	3.76
			SS4C002-2298	4.21
			SS4C003-2299	1.62
			SS4C004-2300	3.52
			SS4C005-2302	2.55
			SS4C006-2303	1.66
			SS4D005-619	3.25
			SS4D006-620	2.34
			SS4D009-625	2.04
			SS4D010-626	2
			SS4D011-627	2.67
			SS4D012-628	1.87
			SS4D013-629	2.4
			SS4D014-630	2.11
			SS4D015-631	2.97
			SS4D017-2306	3.47
			SS4D019-2308	2.4
			SS4D020-2309	2.24
			SS4F003-635	1.59
			SS4F005-2311	1.7
			SS4F006-2312	1.89
			SS4F008-2314	1.46
			SS4F009-2315	1.77
			SS4G001-2316	1.92

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SS4G002-2365	8.51
			SS505-694	1.97
			SS5A010-2164	4.56
			SS5A011-2165	1.88
			SS5A012-2166	3.37
			SS5A013-2167	3.42
			SS5A014-2168	2.21
			SS5A016-2170	31.3
			SS5A021-2214	4.53
			SS606-698	352
			SS6A001-2317	8.73
			SS6A010-2364	2.69 J
			SS6B001-2330	1.51
			SS6B005-2335	8.25
			SS801-070	1.49
			SS805-074	2.79
			SS806-075	1.92
			SS807-076	1.57
			SS813-700	2.02
			SS814-701	2.62
			SS815-702	4.47
			SS816-703	3.39
			SS818-705	1.8
			SS820-708	3.13
			SS826-405	11.9
			SS827-406	33.3
			SS829-409	5.29
			SS830-1036	304
			SS8A002-2174	3.68
			SS8A003-2175	87.6
			SS8A004-2176	9.79
			SS8A005-2177	3.03
			SS8A008-2180	1.4
			SS8A014-2181	68.5
			SS8B001-2430	4.11 J
			SS8B003-2433	1.44
			SS8B005-2435	1.78
			SS8B006-2436	2.71
			SS8B007-2437	2.01
			SS8B009-2441	2.83
			SS8B010-2442	2.33
			SS8C001-2184	1.98
			SS8D001-2188	3.73
			SS8D003-2190	8.94

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SS8D004-2191	58.8 J
			SS8D006-2193	14.1
			SS8D007-2195	9.04
			SS8D008-2196	1.49
			SS8D009-2197	536
			SS8E001-2198	1.66
			SS8E002-2199	2.12 J
			SS8F001-2201	6.76
			SS8F003-2203	39.4
			SS8F005-2206	40.8
			SS8F006-2207	2.99
			SS8G002-2344	1.59
			SS8G005-2347	1.44
			SS8H001-2443	10
			SS8H002-2444	22.5 J
			SS904-2087	1.61 J
			SS905-2089	2.14
			SS906-2091	3.1
			SS913-2105	30.5
			SS-DRUM01-3369	2.69
			SS-DRUM02-3372	5.21
			SS-DRUM04-3378	2.26
			SS-DRUM05-3381	1.86 J
			SS-DRUM06-3395	1.73
			SS-DRUM07-3398	2.59
			SS-EU011-3327	2.14
			SS-EU021-3328	1.73
			SS-EU022-3329	1.48
			SS-EU031-3330	1.41
			SS-EU032-3331	1.58
			SS-EU051-3334	2.48
			SS-EU061-3335	8.02
			SS-EU071-3337	1.74
			SS-EU072-3338	2.52
			SS-EU081-3339	1.41
			SS-EU101-3343	6.86
			SS-EU102-3344	1.54
			SS-EU111-3346	1.44 J
			SS-EU113-3348	1.58
			SS-EU121-3349	2.51
			SS-EU122-3350	1.72
			SS-EU123-3351	2.59 J
			SS-EU141-3355	1.57
			SS-MW229-3617	1.61

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SS-MW313-3590	3.07
			SS-MW314-3593	2.89
			SS-MW422-3608	1.8 J
			SS-MW423-3611	1.92
			SS-MW861-3599	1.67
			SS-TWP835-3515	1.69
			SS-TWP836-3518	2.01
			SS-TWP837-3521	1.62
			SS-TWP838-3524	1.4
			SS-TWP841-3533	2.01
			SS-TWP842-3536	1.75
			SS-TWP844-3542	2.58
			SS-TWP845-3545	2.57
			SS-TWP847-3551	2
			SS-TWP848-3554	2.7
			SS-TWP849-3557	2.06 J
			SS-TWP850-3560	1.44
			SS-TWP851-3563	1.46
			SS-TWP852-3566	2.53
			SS-TWP853-3569	1.52
			SS-TWP855-3575	2.7
			SS-TWP856-3578	2.04 J
			TB201-2802-01.0-001	1.52
			TB203-2806-01.0-013	4.63
			TB301-2810-01.5-003	1.8
			TB301-2811-01.0-029	25.8
			TB302-2813-01.0-042	1.47
			TB303-2816-01.0-016	1.79
			TB305-2922-04.0-014	1.4
			TB305-2924-05.0-080	1.84
			TB403-2821-04.0-008	1.52
			TB403-2822-07.0-024	1.41 J
			TB404-2856-02.3-028	1.44
			TB406-2827-02.0-027	2.07
			TB410-2834-04.0-055	1.8
			TB411-2836-01.5-034	2.02
			TB411-2837-01.5-052	8.74
			TB412-2839-05.0-034	1.65
			TB414-2846-01.0-043	1.51
			TB501-2848-03.0-095	1.42
			TB802-2901-04.2-008	2.64 J
			TB802-2902-04.0-018	15.2
			TB802A-2903-03.8-096	39.2
			TB808-2851-01.5-020	2.52

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	TB808-2852-01.5-016	1.99
			TB809-2906-01.0-045	8.2
			TB810-2907-02.9-012	1.76
			TB810-2908-01.8-041	29.6
			TB811-2910-04.8-044	1.72
			TB811-2911-02.3-012	1.77
			TB811-2912-04.0-047	1.47
			TB812-2914-03.0-014	1.82
			TB813-2925-08.0-013	31.2
			TB813-2926-01.0-021	2.49
			TB813-2927-03.9-029	1.83
			TS203-2808-020	3.68
			TS809-2904-001	4.58
			TS809-2905-007	5.95
			TS812-2928-062	14.3

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-232	pCi/g	1.24	SB202-086-10	1.26
			SB208-092-12	1.41
			SB213-097-12.5	1.31
			SB218-410-2.0	1.44
			SB219-411-2.0	1.47
			SB2A002-646-11.0	1.37
			SB2B001-648-16.0	1.47
			SB413-131-19	1.28
			SB4B011-2283-2.0	1.38
			SB4D004-657-14.5	1.37
			SB502-145-13	1.38
			SB506-725-13.0	1.35
			SB5A018-2211-2.0	1.69
			SB803-156-7.5	1.27
			SB819-736-9.0	1.31
			SB913-2474-1.5	1.39
			SB-BH220-20.0-3662	1.3
			SB-BH221-15.0-3663	1.62
			SB-CORE07-0.5-3743	1.26
			SB-DRUM05-3382-1.0	1.36
			SB-EU011-3300-2.0	1.37
			SB-EU042-3311-1.0	1.38
			SB-EU071-3316-2.0	1.26
			SB-EU091-3320-2.0	1.69 J
			SB-EU103-3324-1.0	1.26
			SB-MH07/08-11.0-3652	1.72
			SB-MW228-11.0-3615	1.35
			SB-MW229-11.0-3614	1.4 J
			SB-TWP842-10.0-3537	1.33
			SB-TWP847-10.0-3552	1.27 J
			SB-TWP851-18.0-3564	1.57 J
			SD914-2108	1.46
			SS221-403	2.07
			SS2D003-549	1.46
			SS2D005-551	1.39
			SS2D008-554	1.29
			SS2D011-2383	1.33
			SS3B010-583	1.25
			SS402-039	1.25
			SS417-054	1.25 J
			SS4B016-2290	1.33
			SS4D017-2306	1.32
			SS504-692	1.36
			SS5A006-642	1.73

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-232	pCi/g	1.24	SS5A010-2164	1.31
			SS8D009-2197	1.7
			SS8F006-2207	1.33
			SS905-2089	1.52
			SS-DRUM06-3395	1.3
			SS-EU032-3331	1.27
			SS-EU123-3351	1.3 J
			SS-MW314-3593	1.48
			SS-MW424-3620	1.33
			SS-TWP835-3515	1.3
			SS-TWP841-3533	1.39
			SS-TWP842-3536	1.52
			SS-TWP843-3539	1.25
			SS-TWP848-3554	1.54
			SS-TWP849-3557	1.32 J
			SS-TWP852-3566	1.36
			SS-TWP853-3569	1.58
			SS-TWP856-3578	1.36 J
			TB809-2906-01.0-045	1.34
			TB813-2925-08.0-013	1.87
			TS809-2905-007	1.34

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	µg/g	3.58	SB206-090-9	4.77
			SB215-099-7.5	3.61 J
			SB219-411-2.0	3.91
			SB220-412-1.0	15.1
			SB221-413-2.0	4.48
			SB3B015-2471-1.25	24.4
			SB3C014-2472-1.0	15.3
			SB3C014-2473-2.0	7.19
			SB3C015-2475-1.5	54.8
			SB404-121-1.4	24.5
			SB4A013-2356	4.17
			SB4A013-2357	4.55
			SB4A013-2358	5.05
			SB4A014-2272-1.0	13.9
			SB4A015-2355	11.2
			SB4B009-2281-2.0	4.39
			SB4B014-2353	3.82
			SB5A010-2257-1.0	6.56
			SB5A016-2254-1.0	16
			SB5A016-2255-1.5	13.6
			SB5A016-2256-1.7	10
			SB5A019-2212-1.75	4.12
			SB6A001-2363	4.46
			SB6B005-2359	29.8
			SB6B005-2360	79.2
			SB6B005-2361	27.7
			SB752-2252-1.0	3.71
			SB826-416-1.3	10.8
			SB827-417-2.0	6.51
			SB828-418-0.5	9.08
			SB830-1037-2.0	30.1
			SB8A009-2218-2.0	3.77
			SB8B008-2440-2.0	4.47
			SB8D003-2233-0.75	4.39
			SB8D003-2236-1.0	3.74
			SB8D006-2232-0.8	4.78
			SB8D016-2231-2.0	12.6
			SB8F006-2251-1.0	4.21
			SB905-2090-2.0	12.2
			SB913-2474-1.5	3.67
			SB-BH219-6.0-3661	4.37
			SB-EU014-3303-1.0	3.95
			SB-EU081-3318-1.5	5.32
			SB-EU082-3319-1.5	4.18

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	µg/g	3.58	SB-EU102-3323-2.0	69.4
			SB-EU103-3324-1.0	4.33
			SD703-297	5.6
			SD719-341	4.13 J
			SD725-353	5.06
			SD741-672	4.89
			SD746-2150	6.35
			SD746-2248	3.86
			SD748-2153	5.11
			SD750-2155	8.04
			SD911-2101	4.45
			SD912-2103	4.36
			SD-CD1-3401-0.67	4.69
			SS101-684	3.64
			SS103-686	3.9
			SS202-002	6.34
			SS203-003	5.06
			SS207-010	3.96
			SS208-011	3.61
			SS218-400	49.4
			SS219-401	20.9
			SS220-402	21.1
			SS221-403	44.8
			SS2B002-534	3.65
			SS2B003-535	9.59
			SS2B004-536	9.69
			SS2B006-539	6.21
			SS2B007-540	4.44
			SS2B008-541	5.62
			SS2B011-544	3.89
			SS2B014-2374	9.96
			SS2B015-2376	3.93
			SS2B016-2377	4.01
			SS2D009-2381	5.57
			SS2D010-2382	4.6
			SS2D011-2383	7.71
			SS303-027	4.81 J
			SS306-030	4.2 J
			SS308-032	10.4
			SS311-035	5.33
			SS314-404	5.77
			SS3A002-556	3.94
			SS3A003-557	4.24
			SS3A004-559	12.1

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	μg/g	3.58	SS3A005-560	9.12
			SS3A006-561	3.92
			SS3A007-562	4.26
			SS3A012-568	4.26
			SS3A013-569	3.95
			SS3A015-571	4.6
			SS3A016-572	5.36
			SS3A021-2392	4.8
			SS3A023-2394	3.73
			SS3A024-2395	4.63
			SS3B001-573	4.77
			SS3B003-576	6.25
			SS3B004-577	5.39
			SS3B005-578	5.44
			SS3B007-580	7.17
			SS3B008-581	3.89
			SS3B010-583	5.62
			SS3B011-2398	5.51
			SS3B014-2404	4.4
			SS3B015-2405	16.9
			SS3B016-2406	4.07
			SS3C002-585	4.19
			SS3C005-588	12.4
			SS3C006-589	5.71
			SS3C007-590	9.41
			SS3C010-593	20.9
			SS3C011-594	6.46
			SS3C012-596	3.81
			SS3C014-2411	15.4
			SS3C015-2412	330
			SS3C016-2413	3.6
			SS3D001-2414	6.02
			SS3D002-2415	3.61
			SS3D004-2418	4.31
			SS3D005-2419	6.72
			SS3D006-2420	1270
			SS3D007-2421	5630
			SS3D008-2422	15
			SS3D009-2423	20.2
			SS402-039	33.1
			SS407-044	3.69
			SS4A007-605	6.11
			SS4A011-610	3.6
			SS4A012-611	8.69

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	µg/g	3.58	SS4A013-2270	4.05
			SS4A014-2271	11.4
			SS4A015-2274	10.5
			SS4B001-612	8.97
			SS4B002-613	5.07
			SS4B009-2280	34.3
			SS4B010-2282	6.6
			SS4B014-2288	4.28
			SS4B015-2289	3.88
			SS4B016-2290	7.76
			SS4B021-2295	3.91
			SS4C002-2298	7.43
			SS4C003-2299	5.19
			SS4C004-2300	4.15
			SS4D011-627	3.68
			SS4D017-2306	3.97
			SS4G002-2365	4.09
			SS502-060	27.1
			SS503-064	366
			SS504-692	27.7
			SS5A001-637	8.97
			SS5A002-638	8.01
			SS5A006-642	7.6
			SS5A008-644	3.67
			SS5A010-2164	7.63
			SS5A012-2166	6
			SS5A013-2167	6.73
			SS5A014-2168	6.81
			SS5A016-2170	4.43
			SS5A021-2214	10
			SS606-698	287
			SS6B005-2335	6.55
			SS6C006-2342	3.69
			SS801-070	3.79
			SS804-073	4.41 J
			SS806-075	3.71
			SS813-700	3.65
			SS814-701	9.52
			SS815-702	9.23
			SS816-703	8.94
			SS817-704	4.79
			SS818-705	5.52
			SS819-706	55.8
			SS820-708	3.94

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	µg/g	3.58	SS821-709	3.7
			SS826-405	9.87
			SS827-406	8.35
			SS830-1036	884
			SS8A003-2175	5.86
			SS8A004-2176	3.65
			SS8A006-2178	3.61
			SS8A014-2181	4.98
			SS8B005-2435	4.07
			SS8B007-2437	9.69
			SS8B008-2438	15.5
			SS8B010-2442	8.09
			SS8D002-2189	5.61
			SS8D003-2190	5.71
			SS8D004-2191	5.42
			SS8D007-2195	10.9
			SS8D009-2197	19
			SS8F001-2201	4.32
			SS8F003-2203	4.83
			SS8F005-2206	4.33
			SS8F006-2207	6.63
			SS8H001-2443	10.4
			SS8H002-2444	11.3
			SS903-2083	4.01
			SS905-2089	13.5
			SS913-2105	4.07
			SS-DRUM07-3398	4.18
			SS-EU051-3334	5
			SS-EU111-3346	4.14
			SS-EU121-3349	15.4
			SS-EU123-3351	3.64
			SS-EU141-3355	5.73
			SS-TWP833-3509	40.2
			SS-TWP857-3581	24.3
			TB202-2803-05.2-038	3.61
			TB203-2806-01.0-013	4.23
			TB203-2807-04.0-058	13.1
			TB204-2916-08.0-030	3.73
			TB205-2919-03.0-055	4.36
			TB301-2811-01.0-029	11.8
			TB302-2813-01.0-042	3.78
			TB304-2818-01.3-000	31.3
			TB305-2922-04.0-014	5.73
			TB305-2924-05.0-080	4.44

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	µg/g	3.58	TB403-2821-04.0-008	3.67
			TB406-2827-02.0-027	5.75
			TB411-2836-01.5-034	4.82
			TB411-2837-01.5-052	6.1
			TB414-2844-05.5-004	3.78
			TB414-2845-08.0-040	5.94
			TB414-2846-01.0-043	4.53
			TB501-2847-01.5-130	5.6
			TB501-2849-02.7-068	18.2
			TB802-2902-04.0-018	7.29
			TB802A-2903-03.8-096	17.8
			TB809-2906-01.0-045	3.66
			TB810-2907-02.9-012	3.94
			TB810-2908-01.8-041	6.13
			TB811-2912-04.0-047	4.37
			TB813-2925-08.0-013	6.52
			TB813-2926-01.0-021	9.16
			TS812-2928-062	2860

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.66	SB215-099-7.5	1.69
			SB219-411-2.0	1.95
			SB220-412-1.0	4.58
			SB3B015-2471-1.25	6.53
			SB3C014-2472-1.0	7.72
			SB3C014-2473-2.0	2.35
			SB3C015-2475-1.5	17.5
			SB404-121-1.4	7.15
			SB4A013-2356	3.65
			SB4A013-2357	2.3
			SB4A013-2358	3.65
			SB4A014-2272-1.0	4.7
			SB4A015-2355	6.57
			SB4B009-2281-2.0	1.68
			SB5A010-2257-1.0	2.54
			SB5A016-2254-1.0	6.8
			SB5A016-2255-1.5	7.05
			SB5A016-2256-1.7	4.29
			SB6A001-2363	4.25
			SB6B005-2359	14.3
			SB6B005-2360	40.7
			SB6B005-2361	13.7
			SB826-416-1.3	5.86
			SB827-417-2.0	3.59
			SB828-418-0.5	2.72
			SB830-1037-2.0	3.06
			SB8D003-2233-0.75	1.75
			SB8D006-2232-0.8	1.67
			SB8D016-2231-2.0	4.2 J
			SB913-2474-1.5	1.72
			SB-BH219-6.0-3661	2.36
			SB-BH223-3.0-3665	5.6
			SB-CORE06-0.5-3741	2.39
			SB-EU081-3318-1.5	2.11
			SB-EU102-3323-2.0	25.5
			SD703-297	1.94
			SD719-341	1.75
			SD741-672	2.05
			SD746-2150	4.14
			SD746-2248	1.71
			SD748-2153	2.73
			SD748-2239	1.7
			SD750-2155	4.01
			SD-CD1-3401-0.67	2.09

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.66	SEDC06-08-2146	2.04
			SS202-002	1.93
			SS218-400	12.1
			SS219-401	7.71
			SS220-402	8.43
			SS221-403	29.7
			SS2A006-2369	1.96
			SS2A008-2371	1.77
			SS2B002-534	1.81
			SS2B003-535	4.44
			SS2B004-536	2.08
			SS2B006-539	2.02
			SS2B007-540	2.41
			SS2B010-543	1.9
			SS2B014-2374	3.68
			SS2D006-552	1.76
			SS2D009-2381	2.23
			SS2D011-2383	3.08
			SS303-027	2.72
			SS308-032	3.66
			SS311-035	1.9
			SS312-036	2.25
			SS314-404	2.98
			SS3A002-556	2.34
			SS3A004-559	2.93
			SS3A005-560	9.03
			SS3A006-561	1.78
			SS3A007-562	1.68
			SS3A013-569	2.36
			SS3A016-572	2.01
			SS3B001-573	2.39
			SS3B003-576	2.23
			SS3B004-577	2.59
			SS3B005-578	2.15
			SS3B007-580	2.9
			SS3B010-583	3.42
			SS3B011-2398	2.16
			SS3B013-2402	2.35
			SS3B014-2404	3.67
			SS3B015-2405	7.19
			SS3C002-585	2.09
			SS3C005-588	1.83
			SS3C006-589	2.25
			SS3C007-590	3.89

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.66	SS3C012-596	1.67
			SS3C014-2411	8.5
			SS3C015-2412	64.6
			SS3C016-2413	1.98
			SS3D001-2414	2.4
			SS3D002-2415	2.14
			SS3D005-2419	3.45
			SS3D006-2420	371
			SS3D007-2421	1420
			SS3D008-2422	5.02 J
			SS3D009-2423	7.83
			SS402-039	10.1
			SS4A011-610	1.76
			SS4A012-611	2.82
			SS4A013-2270	1.94
			SS4A014-2271	5.31
			SS4A015-2274	4.64
			SS4B001-612	3.63
			SS4B009-2280	11.5
			SS4B010-2282	3.03
			SS4B015-2289	2.09
			SS4B016-2290	3.39
			SS4B021-2295	2.08
			SS4C002-2298	2.46
			SS4C003-2299	2.92
			SS4D012-628	1.69
			SS4D017-2306	1.85
			SS502-060	7.09
			SS503-064	119
			SS504-692	7.66
			SS505-694	1.79
			SS5A001-637	2.51
			SS5A002-638	4.07
			SS5A006-642	2.26
			SS5A010-2164	2.37
			SS5A012-2166	3.4
			SS5A013-2167	3.79
			SS5A016-2170	2.11
			SS5A021-2214	3.4
			SS606-698	42.5
			SS6B005-2335	2.42
			SS804-073	2.11
			SS806-075	1.77
			SS814-701	3.77

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.66	SS815-702	3.71
			SS816-703	2.28
			SS817-704	2.07
			SS818-705	2.63
			SS819-706	15.6
			SS820-708	1.95
			SS826-405	4.05
			SS827-406	3.34
			SS830-1036	89.9
			SS8A003-2175	4.19
			SS8A014-2181	2.38
			SS8B007-2437	4.02
			SS8B010-2442	2.94
			SS8D003-2190	1.75
			SS8D004-2191	2.31 J
			SS8D007-2195	2.34
			SS8D009-2197	9.68
			SS8F001-2201	2.79
			SS8F003-2203	1.86
			SS8F005-2206	1.74
			SS8F006-2207	2.4
			SS8H001-2443	2.89
			SS8H002-2444	3.8 J
			SS905-2089	2.95
			SS-EU051-3334	2.37
			SS-EU121-3349	6
			SS-EU123-3351	1.96 J
			SS-EU141-3355	2.38
			SS-MW313-3590	2.59
			SS-MW314-3593	2.02
			SS-TWP833-3509	18.9
			SS-TWP841-3533	1.85
			SS-TWP845-3545	1.73
			SS-TWP848-3554	2.1
			SS-TWP852-3566	1.92
			SS-TWP855-3575	2.75
			SS-TWP857-3581	11
			TB203-2807-04.0-058	4.02
			TB301-2811-01.0-029	3.36
			TB304-2818-01.3-000	9.95
			TB305-2924-05.0-080	1.71
			TB403-2821-04.0-008	1.91
			TB406-2827-02.0-027	1.95
			TB411-2836-01.5-034	1.7

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	1.66	TB411-2837-01.5-052	3.22
			TB414-2844-05.5-004	15.2
			TB414-2845-08.0-040	1.99
			TB414-2846-01.0-043	1.91
			TB501-2847-01.5-130	2.35
			TB501-2849-02.7-068	5.61
			TB802-2902-04.0-018	2.08
			TB802A-2903-03.8-096	5.51
			TB811-2912-04.0-047	1.8
			TB813-2925-08.0-013	2.17
			TB813-2926-01.0-021	1.92
			TS812-2928-062	8340

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/g	0.0847	SB205-089-12.5	0.0866 J
			SB215-099-7.5	0.111 J
			SB303-105-8	0.0894 J
			SB3B015-2471-1.25	0.239
			SB3C014-2472-1.0	0.461
			SB3C014-2473-2.0	0.244
			SB3C015-2475-1.5	0.879
			SB3D001-2476-1.0	0.153
			SB3D002-5.0-3633	0.12
			SB404-121-1.4	0.124 J
			SB413-131-19	0.0893 J
			SB4D001-653-14.5	0.151
			SB4G002-2368	0.461
			SB503-149-13	0.115 J
			SB5A016-2254-1.0	1.18
			SB5A016-2255-1.5	0.248
			SB5A016-2256-1.7	0.173
			SB5A019-2212-1.75	0.119
			SB6B005-2359	0.874
			SB6B005-2360	3.63
			SB8B002-2432-2.0	0.12
			SB8D006-2232-0.8	0.0851
			SB8D006-2238-2.0	0.0866
			SB8D016-2231-2.0	0.247 J
			SB908-2096-2.5	0.15
			SB-BH223-3.0-3665	0.898
			SB-BH225-10.0-3667	0.099
			SB-CORE06-0.5-3741	0.324
			SB-EU032-3309-1.0	0.164
			SB-EU102-3323-2.0	1.69
			SB-EU111-3325-1.5	0.153
			SB-MH06-8.5-3650	0.22
			SB-TWP837-19.0-3522	0.374
			SB-TWP851-18.0-3564	0.106 J
			SD703-297	0.124 J
			SD712-319	0.109 J
			SD746-2150	0.257
			SD747-2253	0.411
			SD749-2154	0.17
			SD750-2155	0.152
			SD750-2216	0.161
			SD917-2115	0.154
			SD-WD1-3406-0.5	0.404
			SS1A001-2157	0.15

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/g	0.0847	SS1B002-2160	0.229
			SS202-002	0.14 J
			SS208-011	0.17 J
			SS218-400	0.409
			SS220-402	0.452
			SS221-403	1.2
			SS2B014-2374	0.321
			SS2D011-2383	0.179
			SS2D013-2385	0.269
			SS303-027	0.214 J
			SS306-030	0.124 J
			SS308-032	0.102 J
			SS311-035	0.0862 J
			SS3A005-560	0.329
			SS3A006-561	0.186
			SS3A007-562	0.206
			SS3A021-2392	0.209
			SS3A022-2393	0.168
			SS3B012-2401	0.152
			SS3B015-2405	0.403
			SS3B019-2410	0.26
			SS3C013-597	0.363
			SS3C014-2411	0.433
			SS3C015-2412	2.94
			SS3D001-2414	0.233
			SS3D002-2415	0.283
			SS3D004-2418	0.25
			SS3D005-2419	0.237
			SS3D006-2420	21.1
			SS3D007-2421	96.2
			SS3D008-2422	0.697 J
			SS3D009-2423	0.44
			SS402-039	0.302 J
			SS408-045	0.163 J
			SS4A014-2271	0.252
			SS4A015-2274	0.184
			SS4B009-2280	0.309
			SS4B010-2282	0.158
			SS4B014-2288	0.15
			SS4B016-2290	0.229
			SS4B019-2293	0.119
			SS502-060	0.264 J
			SS503-064	6.15
			SS504-692	0.338

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/g	0.0847	SS5A006-642	0.262
			SS5A011-2165	0.177
			SS5A012-2166	0.507
			SS5A013-2167	0.367
			SS5A014-2168	0.129
			SS5A021-2214	0.221
			SS604-069	0.13 J
			SS606-698	2.13
			SS6A001-2317	0.203
			SS6A009-2329	0.189
			SS6A010-2364	0.148 J
			SS6B001-2330	0.139
			SS6B005-2335	0.252
			SS815-702	0.243
			SS817-704	0.132
			SS819-706	0.625
			SS827-406	0.381
			SS830-1036	3.43
			SS8A003-2175	0.285
			SS8A004-2176	0.154
			SS8A014-2181	0.115
			SS8B001-2430	0.107 J
			SS8B007-2437	0.234
			SS8B010-2442	0.239
			SS8C002-2185	0.106
			SS8D003-2190	0.15
			SS8D007-2195	0.142
			SS8D009-2197	0.394
			SS8F003-2203	0.0978
			SS8F006-2207	0.167
			SS8H001-2443	0.197
			SS8H002-2444	0.404 J
			SS905-2089	0.214
			SS-EU032-3331	0.167
			SS-EU051-3334	0.447
			SS-EU121-3349	0.251
			SS-EU141-3355	0.224
			SS-MW314-3593	0.39
			SS-MW424-3620	0.221
			SS-MW861-3599	0.101
			SS-TWP833-3509	0.935
			SS-TWP841-3533	0.293
			SS-TWP845-3545	0.236
			SS-TWP846-3548	0.226

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/g	0.0847	SS-TWP847-3551	0.473
			SS-TWP848-3554	0.094
			SS-TWP857-3581	0.842
			TB205-2919-03.0-055	0.0962
			TB301-2811-01.0-029	0.277
			TB304-2818-01.3-000	0.83
			TB305-2922-04.0-014	0.316
			TB305-2924-05.0-080	0.249
			TB403-2822-07.0-024	0.191 J
			TB406-2828-01.0-010	0.115 J
			TB411-2836-01.5-034	0.133
			TB413-2843-03.0-015	0.117
			TB414-2844-05.5-004	0.64
			TB414-2846-01.0-043	0.155
			TB501-2847-01.5-130	0.214
			TB802A-2903-03.8-096	0.322
			TB811-2910-04.8-044	0.423
			TB811-2911-02.3-012	0.335
			TB812-2914-03.0-014	0.157
			TB813-2925-08.0-013	0.186
			TB813-2926-01.0-021	0.214
			TS809-2904-001	0.0981
			TS812-2928-062	886

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.34	SB215-099-7.5	1.61
			SB218-410-2.0	1.41
			SB220-412-1.0	4.36
			SB221-413-2.0	1.84
			SB313-717-13.5	1.44
			SB314-415-1.5	1.39
			SB3A017-2249-1.0	1.52
			SB3B011-2399-2.0	1.4
			SB3B015-2471-1.25	5.66
			SB3C014-2472-1.0	7.64
			SB3C014-2473-2.0	2.22
			SB3C015-2475-1.5	16.5
			SB404-121-1.4	6.69
			SB4A013-2356	2.85
			SB4A013-2357	2.87
			SB4A013-2358	3.57
			SB4A014-2272-1.0	5.56
			SB4A015-2355	5.31
			SB4B009-2281-2.0	1.86
			SB4B014-2353	2.25
			SB4C002-2351	1.66
			SB5A010-2257-1.0	3.01
			SB5A013-2210-2.0	1.47
			SB5A016-2254-1.0	5.09
			SB5A016-2255-1.5	4.7
			SB5A016-2256-1.7	3.12
			SB5A019-2212-1.75	1.48
			SB6A001-2363	4.12
			SB6B005-2359	13.4
			SB6B005-2360	39.7
			SB6B005-2361	14
			SB826-416-1.3	6.53
			SB827-417-2.0	1.46
			SB828-418-0.5	3.04
			SB830-1037-2.0	2.66
			SB8D003-2233-0.75	1.46
			SB8D016-2231-2.0	4.14 J
			SB913-2474-1.5	1.77
			SB-BH219-6.0-3661	1.82
			SB-BH223-3.0-3665	3.44
			SB-CORE06-0.5-3741	2.08
			SB-EU012-3301-1.0	1.72
			SB-EU081-3318-1.5	2.01
			SB-EU093-3322-2.0	1.39

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.34	SB-EU102-3323-2.0	23.4
			SB-EU103-3324-1.0	1.42
			SB-MH06-8.5-3650	1.77
			SD703-297	1.72
			SD719-341	1.49
			SD725-353	1.49
			SD743-675	1.49
			SD746-2150	3.01
			SD748-2153	1.9
			SD748-2239	1.36
			SD750-2155	2.58
			SD912-2103	1.39
			SD914-2108	1.5
			SD-CD1-3401-0.67	2.01
			SEDC06-08-2146	3.52
			SS103-686	1.44
			SS201-001	1.37
			SS202-002	1.91
			SS203-003	1.8
			SS207-010	2.15
			SS218-400	12.1
			SS219-401	7.51
			SS220-402	6.8
			SS221-403	26.2
			SS2A004-2173	1.74
			SS2A006-2369	1.95
			SS2A008-2371	1.64
			SS2B002-534	1.78
			SS2B003-535	2.23
			SS2B004-536	2.25
			SS2B006-539	2.26
			SS2B007-540	1.61
			SS2B008-541	1.42
			SS2B014-2374	3.82
			SS2B016-2377	1.52
			SS2D009-2381	2.5
			SS2D011-2383	3.05
			SS303-027	2.42
			SS306-030	1.48
			SS308-032	3.42
			SS311-035	1.75
			SS312-036	2.09
			SS313-687	1.4
			SS314-404	2.37

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.34	SS3A002-556	1.62
			SS3A004-559	4
			SS3A005-560	9.23
			SS3A006-561	1.85
			SS3A007-562	1.52
			SS3A013-569	1.42
			SS3A015-571	1.41
			SS3A020-2389	1.89
			SS3A021-2392	1.47
			SS3A022-2393	1.37
			SS3A024-2395	1.92
			SS3B001-573	2.46
			SS3B003-576	2.49
			SS3B004-577	2.17
			SS3B005-578	1.78
			SS3B007-580	2.49
			SS3B008-581	1.51
			SS3B010-583	2.46
			SS3B011-2398	1.81
			SS3B012-2401	1.65
			SS3B013-2402	2.33
			SS3B014-2404	3.34
			SS3B015-2405	7.86
			SS3B016-2406	1.98
			SS3C001-584	1.36
			SS3C002-585	1.56
			SS3C005-588	1.96
			SS3C006-589	2.44
			SS3C007-590	4.03
			SS3C008-591	1.94
			SS3C011-594	1.5
			SS3C014-2411	7.69
			SS3C015-2412	65.9
			SS3C016-2413	1.71
			SS3D001-2414	2.37
			SS3D005-2419	3.77
			SS3D006-2420	373
			SS3D007-2421	1420
			SS3D008-2422	4.7 J
			SS3D009-2423	7.52
			SS402-039	10.1
			SS407-044	1.62
			SS422-688	1.7
			SS4A007-605	1.84

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.34	SS4A009-607	1.72
			SS4A011-610	1.36
			SS4A012-611	3.02
			SS4A013-2270	1.87
			SS4A014-2271	4.56
			SS4A015-2274	4.63
			SS4B001-612	2.72
			SS4B009-2280	11
			SS4B010-2282	3.46
			SS4B012-2284	1.47
			SS4B014-2288	1.69
			SS4B015-2289	1.91
			SS4B016-2290	3
			SS4B021-2295	1.89
			SS4C002-2298	2.47
			SS4C003-2299	2.2
			SS4C004-2300	1.74
			SS4D011-627	1.37
			SS4D017-2306	1.35
			SS4G002-2365	1.77
			SS502-060	6.5
			SS503-064	120
			SS504-692	7.52
			SS505-694	2.17
			SS5A001-637	2.73
			SS5A002-638	4.13
			SS5A004-640	1.42
			SS5A006-642	2.69
			SS5A010-2164	2.5
			SS5A012-2166	2.55
			SS5A013-2167	2.72
			SS5A014-2168	1.82
			SS5A016-2170	1.81
			SS5A021-2214	3.72
			SS606-698	41.5
			SS6A001-2317	1.38
			SS6A009-2329	1.83
			SS6B005-2335	2.62
			SS6C006-2342	1.61
			SS801-070	1.58
			SS804-073	1.79
			SS813-700	1.61
			SS814-701	3.31
			SS815-702	3.13

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.34	SS816-703	2.78
			SS817-704	1.77
			SS818-705	1.84
			SS819-706	14.7
			SS820-708	1.65
			SS821-709	1.38
			SS826-405	3.76
			SS827-406	2.36
			SS830-1036	88.6
			SS8A003-2175	3.18
			SS8A004-2176	1.38
			SS8A014-2181	1.75
			SS8B007-2437	3.7
			SS8B010-2442	2.92
			SS8D003-2190	1.63
			SS8D004-2191	1.85 J
			SS8D007-2195	2.11
			SS8D009-2197	7.1
			SS8F001-2201	1.9
			SS8F003-2203	1.65
			SS8F005-2206	1.51
			SS8F006-2207	1.73
			SS8H001-2443	2.83
			SS8H002-2444	4.04 J
			SS905-2089	2.95
			SS913-2105	1.66
			SS-EU051-3334	2.45
			SS-EU071-3337	1.66
			SS-EU081-3339	1.73
			SS-EU121-3349	5.66
			SS-EU123-3351	1.52 J
			SS-EU141-3355	1.75
			SS-MW313-3590	2.3
			SS-MW314-3593	1.52
			SS-TWP833-3509	21
			SS-TWP834-3512	1.41
			SS-TWP841-3533	1.82
			SS-TWP845-3545	1.66
			SS-TWP848-3554	1.93
			SS-TWP849-3557	1.43
			SS-TWP852-3566	1.67
			SS-TWP854-3572	1.65
			SS-TWP855-3575	2.75
			SS-TWP857-3581	12.2

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	1.34	SS-TWP858-3584	1.55
			TB203-2807-04.0-058	4.38
			TB204-2916-08.0-030	1.35
			TB204-2918-07.0-070	1.36
			TB301-2811-01.0-029	2.91
			TB304-2818-01.3-000	10.3
			TB305-2924-05.0-080	1.9
			TB403-2821-04.0-008	1.57
			TB406-2827-02.0-027	1.56
			TB411-2836-01.5-034	1.57
			TB411-2837-01.5-052	2.97
			TB414-2845-08.0-040	2.73
			TB414-2846-01.0-043	1.58
			TB501-2847-01.5-130	2.25
			TB501-2849-02.7-068	6.27
			TB802-2901-04.2-008	1.46 J
			TB802-2902-04.0-018	2.39
			TB802A-2903-03.8-096	5.61
			TB811-2912-04.0-047	1.91
			TB813-2925-08.0-013	1.95
			TB813-2926-01.0-021	1.86
			TS812-2928-062	8830
Semivolatile Organics				
bis(2-Ethylhexyl)phthalate	μg/Kg	5130	SS4A004-602	7900
Volatile Organics				

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
1,1-Dichloroethene	µg/Kg	--	SB4D003-656-14.5	0.69
			SB505-723-17.0	2.2
			SB-BH218-15.0-3660	1.9
			SB-BH224-10.0-3666	1.54
			SB-BH226-12.0-3668	1.46
			SB-BH227-15.0-3669	3.2
			SB-CORE03-1.5-3735	1.14
			SB-DRUM06-3396-1.0	0.539 J
			SB-EU102-3323-2.0	4.97
			SB-MW229-11.0-3614	0.999 J
			SB-MW229-28.5-3618	1.35
			SB-MW313-11.0-3591	0.823
			SB-MW860-15.0-3597	0.384 J
			SB-MW861-34.5-3596	0.728 J
			SB-MW862-11.5-3603	0.542 J
			SB-MW863-32.0-3606	0.392 J
			SB-TWP835-15.0-3516	0.704 J
			SB-TWP836-15.0-3519	0.899
			SB-TWP838-14.0-3525	1.1
			SB-TWP840-12.0-3531	0.638 J
			SB-TWP842-10.0-3537	1.13
			SB-TWP850-17.0-3561	0.577 J
			SB-TWP855-15.0-3576	1.02
			SS505-694	1.5
			SS910-2099	8.4
			SS-DRUM07-3398	1.12 J
			SS-EU051-3334	0.648 J
			SS-MW314-3593	1.4
			SS-MW861-3599	0.82 J
			SS-MW862-3602	0.666 J
			SS-TWP835-3515	0.714 J
			SS-TWP837-3521	0.9 J
			SS-TWP840-3530	1.02
			SS-TWP844-3542	0.555 J
			SS-TWP850-3560	0.669 J
			SS-TWP851-3563	0.867 J
			TB201-2800-05.0-036	0.85
			TB205-2921-08.0-001	1
			TB301-2809-03.5-034	11
			TB301-2811-01.0-029	32.2
			TB302-2812-08.0-004	14.3
			TB302-2814-06.0-074	0.56
			TB303-2817-05.0-033	0.48 J
			TB403-2822-07.0-024	0.95 J

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
1,1-Dichloroethene	μg/Kg	--	TB406-2828-01.0-010	0.81
			TB410-2833-02.0-035	1.1
			TB811-2910-04.8-044	1.3
2-Butanone	μg/Kg	--	SB404-121-4	125
			SB-BH219-6.0-3661	17.7
			SB-BH222-6.0-3664	6.98
			SB-BH223-3.0-3665	54.9
			SB-TWP832-12.5-3507	9.24
			SB-TWP848-11.0-3555	18.5
			SB-TWP856-11.0-3579	88.8 J
			SS215-019	5.4 J
			SS401-037	6.7
			SS420-057	5.1 J
			SS501-059	6
			SS502-060	6.5
			SS503-064	5.1
			SS602-066	2.6 J
			SS603-068	12
			SS801-070	36.5
			SS805-074	45.9
			SS809-078	9
			SS-TWP830-3500	63.2
			SS-TWP831-3503	86.4
			SS-TWP832-3506	307
			SS-TWP834-3512	6.27
			SS-TWP838-3524	71.9
			SS-TWP839-3527	8.02
			SS-TWP840-3530	9.19
			SS-TWP842-3536	6.19
			SS-TWP845-3545	13.9
			SS-TWP848-3554	8.22
			SS-TWP854-3572	11.7
			SS-TWP856-3578	4.48 J
			TB202-2805-03.0-062	8.2
			TB301-2809-03.5-034	8.1
			TB301-2811-01.0-029	3.3 J
			TB406-2827-02.0-027	4.4
			TB406-2828-01.0-010	13.5
			TB802A-2903-03.8-096	22

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Acetone	µg/Kg	--	C5-SO-SO-D800-10	870 J
			SB202-086-10	2.2 J
			SB2B006-651-13.0	4.3
			SB2C001-652-17.0	2.3 J
			SB310-115-8.5	3.7 J
			SB313-717-13.5	7
			SB404-121-25	12.2 J
			SB404-121-4	406 E
			SB409-126-7.5	3 J
			SB4D002-655-12.0	10100 E
			SB4D005-658-15.5	3.1 J
			SB4D006-659-15.0	2.6 J
			SB505-723-17.0	12.6
			SB603-152-15	4.1 J
			SB607-728-17.0	4.2
			SB811-164-23	4.4 J
			SB819-736-9.0	4 J
			SB-BH218-15.0-3660	11
			SB-BH219-6.0-3661	81.9
			SB-BH220-20.0-3662	14
			SB-BH221-15.0-3663	11.9
			SB-BH222-6.0-3664	31.3
			SB-BH223-3.0-3665	234
			SB-BH224-10.0-3666	15.6
			SB-BH225-10.0-3667	5.61
			SB-BH226-12.0-3668	27.8
			SB-BH227-15.0-3669	32.2
			SB-CORE06-0.5-3741	7.94
			SB-DRUM04-3379-1.0	4.12 J
			SB-EU012-3301-1.0	4.22 J
			SB-EU042-3311-1.0	9.07
			SB-MW228-11.0-3615	14.9
			SB-MW229-11.0-3614	9.87
			SB-MW229-28.5-3618	8.29
			SB-MW313-11.0-3591	3.86
			SB-MW314-15.0-3594	12.4
			SB-MW422-15.0-3609	13.9
			SB-MW423-15.0-3612	11.8
			SB-MW860-15.0-3597	5.66
			SB-MW861-34.5-3596	6.15
			SB-MW861-38.0-3600	3.32 J
			SB-MW863-32.0-3606	2.88 J
			SB-OTFL11-13.0-3658	80.2 J
			SB-OTFL12-13.5-3659	8.38

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Acetone	µg/Kg	--	SB-TWP830-15.0-3501	68.3 J
			SB-TWP831-15.0-3504	6.61
			SB-TWP832-12.5-3507	6.58
			SB-TWP834-14.0-3513	8.35
			SB-TWP835-15.0-3516	5.1
			SB-TWP836-15.0-3519	6.02
			SB-TWP837-19.0-3522	2.78 J
			SB-TWP838-14.0-3525	9.02
			SB-TWP839-14.0-3528	12.4
			SB-TWP840-12.0-3531	10.9
			SB-TWP841-10.0-3534	8.33
			SB-TWP842-10.0-3537	7.68
			SB-TWP843-10.0-3540	6.74
			SB-TWP846-16.0-3549	5.81
			SB-TWP848-11.0-3555	11.2
			SB-TWP849-11.0-3558	8.27
			SB-TWP850-17.0-3561	6.41
			SB-TWP851-18.0-3564	4.18 J
			SB-TWP853-16.5-3570	13.8
			SB-TWP854-13.0-3573	8.59
			SB-TWP855-15.0-3576	7.29
			SB-TWP858-16.0-3585	7.31
			SB-TWP859-18.0-3588	5.84
			SD714-326	8 J
			SD731-368	3.2 J
			SD737-381	1.5 J
			SS215-019	6.7
			SS401-037	63.1 B
			SS404-041	23.9
			SS420-057	51.7
			SS501-059	50.2
			SS502-060	65.6
			SS503-064	56.8
			SS602-066	27.2
			SS603-068	98.1
			SS805-074	29.6
			SS806-075	69.4
			SS809-078	71.3
			SS-DRUM01-3369	8.6
			SS-DRUM06-3395	2.46 J
			SS-DRUM07-3398	6.56
			SS-EU022-3329	8.84
			SS-EU112-3347	6.08 J
			SS-MW314-3593	13.7

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Acetone	µg/Kg	--	SS-MW422-3608	6.92
			SS-MW424-3620	4.21 J
			SS-TWP830-3500	35.5
			SS-TWP831-3503	19.6
			SS-TWP832-3506	21.3
			SS-TWP834-3512	7.3
			SS-TWP838-3524	8.22
			SS-TWP840-3530	16.2
			SS-TWP845-3545	4.19 J
			SS-TWP847-3551	3.93 J
			SS-TWP848-3554	4.21 J
			SS-TWP854-3572	14
			SS-TWP856-3578	9.03
			SS-TWP857-3581	302
			TB202-2805-03.0-062	59.9
			TB203-2806-01.0-013	10.3
			TB203-2807-04.0-058	11.3
			TB205-2919-03.0-055	36.3
			TB205-2920-06.5-060	27.3
			TB205-2921-08.0-001	13
			TB301-2809-03.5-034	80 B
			TB303-2815-05.0-009	4.8
			TB303-2816-01.0-016	4.9
			TB303-2817-05.0-033	14.9
			TB403-2822-07.0-024	11.5
			TB403-2823-08.0-045	9.6
			TB406-2826-07.0-043	3.6
			TB406-2827-02.0-027	30.7
			TB406-2828-01.0-010	95.1
			TB408-2829-02.7-005	6.2
			TB408-2830-03.9-021	5.7
			TB408-2831-04.7-054	7.4
			TB802A-2903-03.8-096	183
			TB808-2850-04.5-016	3.8 J
			TB808-2852-01.5-016	4 J
			TB810-2907-02.9-012	3.7 J
			TB810-2909-05.8-045	4 J
			TB811-2910-04.8-044	3.7 J
			TS203-2808-020	9.8

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzene	µg/Kg	--	SB302-104-11	1.1
			SB311-116-13	0.83
			SB402-119-23	0.81
			SB403-120-18	0.59 J
			SB404-121-25	1.1
			SB404-121-4	0.38 J
			SB418-140-19	0.078 J
			SB420-142-7	3
			SB501-144-12	0.98
			SB502-145-13	0.88 J
			SB503-149-13	1.4
			SB603-152-15	4.1
			SB806-159-18.9	0.76
			SS401-037	2.6
			SS403-040	1.6
			SS404-041	1.5
			SS405-042	1.8
			SS420-057	1.2
			SS502-060	0.54 J
			SS602-066	1.3
			SS603-068	1.4
			SS801-070	2.3
			SS805-074	2.6
			SS806-075	2
			SS807-076	2.6
			SS901-2079	0.15 J
			SS905-2089	0.52 J

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Carbon disulfide	µg/Kg	--	SB212-096-12.5	2.1 J
			SB213-097-12.5	1.5 J
			SB2A001-645-11.0	1.4 J
			SB2C001-652-17.0	0.89 J
			SB313-717-13.5	1.6 J
			SB404-121-25	0.95 J
			SB404-121-4	60
			SB415-136-12.5	1.5 J
			SB415-136-14	5.9 J
			SB418-140-19	0.79 J
			SB4D002-655-12.0	123 J
			SB4D006-659-15.0	0.6 J
			SB505-723-17.0	0.67 J
			SB819-736-9.0	1.8 J
			SB-BH222-6.0-3664	8.36
			SB-BH223-3.0-3665	4.21 J
			SS402-039	9.1
			SS403-040	1.4 J
			SS404-041	4
			SS420-057	2.4 J
			SS501-059	1.2 J
			SS503-064	1.8 J
			SS602-066	2 J
			SS603-068	2.4 J
			SS806-075	1.6 J
			TB406-2827-02.0-027	3.9

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Methylene chloride	µg/Kg	--	C5-AC-SO-BP3-14	220 J
			C5-AC-SO-F200-1	140 J
			C5-SO-SO-D800-1	150 J
			C5-SO-SO-D800-10	150 J
			SB205-089-12.5	22.9
			SB206-090-9	9.6
			SB209-093-10	4.1 J
			SB210-094-13	18
			SD731-368	7.1 JB
			SS205-008	18.2
			SS206-009	18.5
			SS208-011	6.2
			SS210-014	15.2
			TB202-2805-03.0-062	1.6 J
			TB203-2807-04.0-058	1.7 J
			TB303-2815-05.0-009	1.2 J
			TB303-2816-01.0-016	1.1 J
			TB303-2817-05.0-033	1.2 J
			TB406-2826-07.0-043	0.82 J
			TB406-2827-02.0-027	1 J
			TB408-2829-02.7-005	1.4 J
			TB408-2830-03.9-021	1.7 J
			TB408-2831-04.7-054	1.1 J
			TB808-2851-01.5-020	1.5 J
			TS203-2808-020	1.3 J

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Tetrachloroethene	µg/Kg	--	SB303-105-8	1.1 J
			SB415-136-12.5	12400 D
			SB415-136-14	63000 D
			SB415-136-9.2	2200 D
			SB418-140-19	1.9
			SB-BH224-10.0-3666	0.734 J
			SB-CORE01-0.5-3731	0.711 J
			SB-CORE02-0.5-3733	1.15
			SB-CORE04-0.5-3737	12.9
			SB-CORE08-0.5-3745	1.73
			SB-CORE09-0.5-3747	0.962
			SB-CORE10-0.5-3749	5.47
			SB-DRUM05-3382-1.0	1630
			SS216-020	2.7
			SS303-027	0.84 J
			SS415-052	39.1
			SS418-055	10.8
			SS811-080	1.3
			SS-DRUM02-3372	10
			SS-DRUM05-3381	1410
			SS-MW424-3620	3.92
			TB203-2806-01.0-013	13.1
			TB205-2919-03.0-055	0.83 J
			TS203-2808-020	14.3

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Toluene	µg/Kg	--	SB201-085-10	2.5
			SB204-088-9	1.1 J
			SB209-093-10	4.7
			SB210-094-13	1.1 J
			SB217-101-13	4.7
			SB302-104-11	0.8
			SB306-111-12.5	0.63 J
			SB309-114-19	1.6
			SB310-115-8.5	8.5
			SB311-116-13	0.54 J
			SB402-119-23	0.51 J
			SB403-120-18	0.55 J
			SB404-121-25	0.87
			SB404-121-4	6.4
			SB411-129-20	1.5
			SB415-136-12.5	2.7
			SB415-136-9.2	1.1 J
			SB418-140-19	1.1 J
			SB420-142-7	2.2
			SB501-144-12	1.4
			SB502-145-13	0.82 J
			SB503-149-13	1.5
			SB603-152-15	1.4
			SB801-154-18	0.3 J
			SB806-159-18.9	0.47 J
			SB807-160-18.2	0.73 J
			SB901-2080-2.0	0.25 J
			SB904-2088-3.0	0.58 J
			SB905-2090-2.0	0.37 J
			SB909-2098-2.0	0.2 J
			SB-BH223-3.0-3665	1.35
			SB-CORE02-0.5-3733	0.495 J
			SB-MW424-14.0-3621	0.355 J
			SD723-349	0.21 J
			SD731-368	0.25 J
			SD737-381	0.27 J
			SS201-001	3.7
			SS310-034	5.7
			SS311-035	0.33 J
			SS401-037	3.9
			SS402-039	0.37 J
			SS403-040	1.1
			SS404-041	2.3
			SS405-042	1.6

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Toluene	µg/Kg	--	SS420-057	2.8
			SS501-059	0.74
			SS503-064	1.5
			SS602-066	1.2
			SS603-068	1.3
			SS801-070	1.8
			SS805-074	1.9
			SS806-075	3.2
			SS807-076	3.4
			SS811-080	2.1
			SS905-2089	0.38 J
			SS-MW424-3620	0.46 J
			SS-TWP831-3503	0.589 J
			SS-TWP832-3506	0.465 J
			SS-TWP848-3554	0.799 J
			SS-TWP849-3557	0.405 J
			SS-TWP850-3560	0.485 J
			TB201-2800-05.0-036	0.44 J
			TB201-2801-01.0-013	0.58 J
			TB201-2802-01.0-001	0.62 J
			TB202-2805-03.0-062	0.58 J
			TB203-2806-01.0-013	0.34 J
			TB203-2807-04.0-058	0.61 J
			TB205-2919-03.0-055	0.65 J
			TB301-2809-03.5-034	0.33 J
			TB301-2810-01.5-003	0.41 J
			TB301-2811-01.0-029	0.41 J
			TB302-2812-08.0-004	0.2 J
			TB302-2814-06.0-074	0.19 J
			TB303-2815-05.0-009	0.37 J
			TB303-2816-01.0-016	0.32 J
			TB303-2817-05.0-033	0.34 J
			TB403-2821-04.0-008	0.4 J
			TB403-2822-07.0-024	1.1
			TB403-2823-08.0-045	1.1
			TB406-2826-07.0-043	0.27 J
			TB406-2827-02.0-027	0.32 J
			TB406-2828-01.0-010	0.39 J
			TB408-2829-02.7-005	0.52 J
			TB408-2830-03.9-021	0.54 J
			TB408-2831-04.7-054	0.28 J
			TB410-2832-06.0-008	0.31 J
			TB410-2833-02.0-035	0.38 J
			TB410-2834-04.0-055	0.39 J

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Toluene	µg/Kg	--	TB802A-2903-03.8-096	1.8 J
			TB808-2850-04.5-016	0.5 J
			TB810-2907-02.9-012	0.71 J
			TB810-2908-01.8-041	0.55 J
			TB810-2909-05.8-045	0.82 J
			TS203-2808-020	0.39 J
Trichloroethene	µg/Kg	--	SB201-085-10	6700 D
			SB415-136-12.5	188 JD
			SB415-136-14	3050 D
			SB415-136-9.2	23.6
			SB4D003-656-14.5	3.4
			SB-BH224-10.0-3666	2.85
			SB-CORE01-0.5-3731	2.22
			SB-CORE03-1.5-3735	3.35
			SB-CORE04-0.5-3737	227
			SB-CORE05-0.5-3739	0.437 J
			SB-CORE06-0.5-3741	2.09
			SB-CORE08-0.5-3745	1.09
			SB-CORE09-0.5-3747	0.459 J
			SB-CORE10-0.5-3749	1.78
			SB-DRUM05-3382-1.0	75.6 J
			SS201-001	1 J
			SS415-052	11.4
			SS811-080	1 J
			SS-DRUM05-3381	71.4 J
			SS-MW424-3620	0.571 J
			TB203-2806-01.0-013	0.77 J
			TB205-2919-03.0-055	0.56 J
			TB406-2827-02.0-027	7.9 B
			TB406-2828-01.0-010	4.6

* Data qualifier included with concentration value

Table 4-63
Exposure Unit 17
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Xylenes (total)	µg/Kg	--	SB217-101-13	1.1 J
			SB302-104-11	0.41 J
			SB403-120-18	0.34 J
			SB404-121-25	0.34 J
			SB404-121-4	0.51 J
			SB415-136-12.5	16.2
			SB420-142-7	1.5 J
			SB502-145-13	0.58 J
			SB603-152-15	0.91 J
			SB801-154-18	0.32 J
			SS401-037	1.8 J
			SS404-041	0.99 J
			SS420-057	1 J
			SS503-064	0.39 J
			SS505-694	1.3 J
			SS602-066	0.76 J
			SS801-070	1.1 J
			SS811-080	0.8 J
			TB301-2810-01.5-003	0.32 J

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	19100	SB414-135-21	23300
			SB-BH218-15.0-3660	20900
			SB-BH220-20.0-3662	20800
			SB-MW228-11.0-3615	23200
			SB-MW229-11.0-3614	23200
			SB-MW314-15.0-3594	22600 *
			SB-OTFL11-13.0-3658	25000
			SB-TWP835-15.0-3516	19200 *
			SB-TWP846-16.0-3549	19400
			SB-TWP848-11.0-3555	19500
			SB-TWP849-11.0-3558	19400
Antimony	mg/Kg	0.94	SB-BH221-15.0-3663	1.41 BN
			SB-MW228-11.0-3615	1.63 BN*
			SB-MW424-14.0-3621	1.63 BN
			SB-MW860-15.0-3597	1.41 BN
			SB-MW861-34.5-3596	2.88 BN
			SB-MW862-11.5-3603	1.92 BN
			SB-OTFL12-13.5-3659	1.08 BN
			SB-TWP831-15.0-3504	1.65 BN
			SB-TWP832-12.5-3507	1.54 N
			SB-TWP835-15.0-3516	2.19 BN
			SB-TWP836-15.0-3519	1.64 BN
			SB-TWP837-19.0-3522	1.96 BN*
			SB-TWP839-14.0-3528	1.49 BN
			SB-TWP845-13.0-3546	2.57 BN*
			SB-TWP848-11.0-3555	3.24 N
			SB-TWP849-11.0-3558	2.6 BN*
			SB-TWP850-17.0-3561	1.9 BN
			SB-TWP851-18.0-3564	3 J
			SB-TWP852-15.0-3567	1 BN
			SB-TWP856-11.0-3579	1.34 BN
Arsenic	mg/Kg	8.73	SB816-733-12.0	20.6
Beryllium	mg/Kg	1	SB414-135-21	1.2
			SB816-733-12.0	1.06
			SB-BH220-20.0-3662	1.03 B
			SB-MW228-11.0-3615	1.09 B
			SB-MW229-11.0-3614	1.11
			SB-MW314-15.0-3594	1.07
			SB-OTFL11-13.0-3658	1.12 B

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Boron	mg/Kg	10.1	SB208-092-12	11.1
			SB213-097-12.5	14.8 N
			SB406-123-18	11.1
			SB411-129-20	12.3
			SB414-135-21	16
			SB418-140-19	12.1
			SB502-145-13	12.5
			SB811-164-23	11
			SB816-733-12.0	11.1
			SB-BH218-15.0-3660	16.9 B
			SB-BH220-20.0-3662	19.6
			SB-BH221-15.0-3663	15.3 B
			SB-BH226-12.0-3668	23.5
			SB-BH227-15.0-3669	22.3
			SB-MW228-11.0-3615	30.9 N
			SB-MW229-11.0-3614	51.5
			SB-MW313-11.0-3591	14 N
			SB-MW314-15.0-3594	20.2 N
			SB-MW422-15.0-3609	13.2 N
			SB-MW423-15.0-3612	15.1 N
			SB-MW862-11.5-3603	13.1 B
			SB-OTFL11-13.0-3658	19.8
			SB-OTFL12-13.5-3659	14.9
			SB-TWP830-15.0-3501	13.7 N*
			SB-TWP832-12.5-3507	16.8 N*
			SB-TWP834-14.0-3513	15.4
			SB-TWP835-15.0-3516	14.1 B
			SB-TWP836-15.0-3519	13.3 B
			SB-TWP837-19.0-3522	13 BN
			SB-TWP838-14.0-3525	16.3
			SB-TWP839-14.0-3528	15
			SB-TWP840-12.0-3531	14.5
			SB-TWP846-16.0-3549	14.3 BN
			SB-TWP848-11.0-3555	15.2 B
			SB-TWP849-11.0-3558	13.7 N
			SB-TWP851-18.0-3564	10.2 J
			SB-TWP853-16.5-3570	15.5
			SB-TWP854-13.0-3573	14.9 B
			SB-TWP859-18.0-3588	16.4

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cadmium	mg/Kg	0.53	SB306-111-12.5	0.63
			SB414-135-21	2
			SB416-137-21	0.6
			SB418-140-19	0.55
			SB419-141-17	0.66
			SB421-143-16	0.69
			SB601-150-13	0.93
			SB607-728-17.0	0.665
			SB811-164-23	0.76
Calcium	mg/Kg	58900	C5-SO-SO-D800-10	60800
			SB414-135-21	98400
			SB-MW863-32.0-3606	82200
			SB-OTFL11-13.0-3658	69200
			SB-TWP837-19.0-3522	63300 *
			SB-TWP844-11.0-3543	71700 *
			SB-TWP850-17.0-3561	60100
Chromium	mg/Kg	25.8	SB208-092-12	27.9
			SB213-097-12.5	27.4
			SB411-129-20	26.2 *
			SB414-135-21	35.3
			SB415-136-12.5	26.1 *
			SB418-140-19	61.7 *
			SB502-145-13	27.6 *
			SB816-733-12.0	27.1
			SB-BH218-15.0-3660	29.8
			SB-BH220-20.0-3662	30.1
			SB-BH221-15.0-3663	26.8
			SB-MW228-11.0-3615	31.5
			SB-MW229-11.0-3614	28.6
			SB-MW314-15.0-3594	26.7
			SB-OTFL11-13.0-3658	36.2
			SB-OTFL12-13.5-3659	27.2
			SB-TWP832-12.5-3507	27.8 *N
			SB-TWP835-15.0-3516	27.7
			SB-TWP846-16.0-3549	26.7
			SB-TWP848-11.0-3555	28.3
			SB-TWP849-11.0-3558	26.8
			SB-TWP853-16.5-3570	26.1
			SB-TWP854-13.0-3573	27.3
Copper	mg/Kg	49.3	SB414-135-21	63.3
			SB418-140-19	61.9
Iron	mg/Kg	36400	SB414-135-21	42800
			SB816-733-12.0	44000
Lead	mg/Kg	37.6	SB801-154-18	50.5

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Lithium	mg/Kg	36.8	SB402-119-23	106
			SB411-129-20	38.9 EN
			SB-BH218-15.0-3660	37.6 E
			SB-BH220-20.0-3662	37.3 E
			SB-MW228-11.0-3615	41.6 E
			SB-MW314-15.0-3594	40.9
			SB-OTFL11-13.0-3658	39.4 N
Magnesium	mg/Kg	14800	SB208-092-12	15100
			SB414-135-21	22600
			SB-MW228-11.0-3615	15200
			SB-OTFL11-13.0-3658	17200
			SB-TWP834-14.0-3513	15000
			SB-TWP837-19.0-3522	19100
			SB-TWP848-11.0-3555	16600 *
			SB-TWP850-17.0-3561	18300
Nickel	mg/Kg	38	SB414-135-21	44.5
			SB502-145-13	40

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Potassium	mg/Kg	2860	SB208-092-12	3120
			SB213-097-12.5	5180 E
			SB406-123-18	2970 N
			SB411-129-20	2920
			SB414-135-21	3700
			SB502-145-13	2910
			SB816-733-12.0	3190
			SB-BH218-15.0-3660	3900
			SB-BH220-20.0-3662	4060
			SB-BH221-15.0-3663	3450
			SB-BH226-12.0-3668	4120 EN
			SB-BH227-15.0-3669	2870 EN
			SB-MW228-11.0-3615	5090
			SB-MW229-11.0-3614	5080 J
			SB-MW313-11.0-3591	3730 *
			SB-MW314-15.0-3594	5030 *
			SB-MW422-15.0-3609	3140 *
			SB-MW423-15.0-3612	3550 *
			SB-MW862-11.5-3603	3590 *
			SB-OTFL11-13.0-3658	5590
			SB-OTFL12-13.5-3659	3750
			SB-TWP830-15.0-3501	3000 *
			SB-TWP832-12.5-3507	3700 *
			SB-TWP834-14.0-3513	3790
			SB-TWP835-15.0-3516	4070 *
			SB-TWP836-15.0-3519	3710 *
			SB-TWP837-19.0-3522	3760
			SB-TWP838-14.0-3525	3730
			SB-TWP839-14.0-3528	3520
			SB-TWP840-12.0-3531	3360 E
			SB-TWP846-16.0-3549	4180
			SB-TWP848-11.0-3555	3840
			SB-TWP849-11.0-3558	4020
			SB-TWP853-16.5-3570	3750
			SB-TWP854-13.0-3573	3710
			SB-TWP859-18.0-3588	4340

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SB103-716-10.5	1 B
			SB207-091-14	0.88
			SB208-092-12	0.74 B
			SB213-097-12.5	0.69 BN
			SB217-101-13	1.2
			SB302-104-11	0.91 B
			SB306-111-12.5	0.54 B
			SB308-113-19	0.85 B
			SB309-114-19	0.61 BN
			SB311-116-13	1.1
			SB401-118-20	0.39 BN
			SB402-119-23	3.2 B
			SB403-120-18	1 B
			SB404-121-25	1.1
			SB405-122-25	1.2
			SB407-124-20	0.92 B
			SB408-125-20	0.9
			SB410-128-11	0.79 B
			SB411-129-20	1.1
			SB412-130-15	0.48 B
			SB413-131-19	1.4 B
			SB414-135-21	0.38 B
			SB415-136-12.5	0.76 B
			SB415-136-14	0.79 B
			SB416-137-21	0.45 B
			SB418-140-19	0.85 B
			SB419-141-17	0.7 BN
			SB421-143-16	0.81 BN
			SB501-144-12	1 B
			SB502-145-13	1.2
			SB503-149-13	1.2
			SB504-722-14.0	0.768 B
			SB505-723-17.0	0.531 B
			SB601-150-13	0.67 B
			SB604-153-15	0.57 B
			SB605-726-16.5	0.415 B
			SB607-728-17.0	0.611 B
			SB801-154-18	1.5
			SB802-155-17	0.59 B
			SB806-159-18.9	0.71 B
			SB807-160-18.2	1.6 B
			SB808-161-15	2.1 B
			SB809-162-18	0.45 BN
			SB810-163-12.0	0.46 B

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SB813-730-10.5	0.738 B
			SB816-733-12.0	1.07 B
			SB822-739-11.0	0.775 B
			SB-BH226-12.0-3668	0.448 B
			SB-BH227-15.0-3669	0.39 B
			SB-MW228-11.0-3615	1.81
			SB-MW229-11.0-3614	1.25 J
			SB-MW229-28.5-3618	0.538 BN
			SB-MW424-14.0-3621	1.28 N
			SB-MW860-15.0-3597	0.918 BN
			SB-MW861-34.5-3596	1.27 N
			SB-MW861-38.0-3600	0.405 BN
			SB-MW862-11.5-3603	2.01 N
			SB-MW863-32.0-3606	1.3 N
			SB-OTFL12-13.5-3659	0.477 B
			SB-TWP831-15.0-3504	0.408 B
			SB-TWP834-14.0-3513	0.449 B
			SB-TWP835-15.0-3516	2.24 N
			SB-TWP836-15.0-3519	2.28 N
			SB-TWP837-19.0-3522	2.18
			SB-TWP840-12.0-3531	0.922 BN
			SB-TWP844-11.0-3543	1.53
			SB-TWP845-13.0-3546	1.05 B
			SB-TWP846-16.0-3549	1.53
			SB-TWP848-11.0-3555	1.68 N
			SB-TWP849-11.0-3558	1.79
			SB-TWP850-17.0-3561	1.22 BN
			SB-TWP851-18.0-3564	1.28 J
			SB-TWP852-15.0-3567	0.578 B
			SB-TWP857-11.0-3582	0.443 B
Silver	mg/Kg	0.27	SB505-723-17.0	0.411 B
			SB801-154-18	0.29 N
Sodium	mg/Kg	331	C5-AC-SO-BP3-14	753
			C5-VS-SO-D300-14	423
			SB411-129-20	452 E
			SB414-135-21	486
			SB-MW229-11.0-3614	346
			SB-OTFL11-13.0-3658	403

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SB103-716-10.5	0.149 B
			SB207-091-14	0.04 B
			SB208-092-12	0.16
			SB213-097-12.5	0.15
			SB217-101-13	0.12 B
			SB302-104-11	0.1 B
			SB306-111-12.5	0.13
			SB308-113-19	0.12 B
			SB309-114-19	0.03 B
			SB311-116-13	0.11 B
			SB401-118-20	0.09 B
			SB402-119-23	0.07 B
			SB403-120-18	0.13 B
			SB404-121-25	0.1 B
			SB405-122-25	0.04 B
			SB406-123-18	0.12 B
			SB407-124-20	0.02 B
			SB408-125-20	0.05 B
			SB410-128-11	0.14
			SB411-129-20	0.21
			SB412-130-15	0.05 B
			SB413-131-19	0.1 B
			SB414-135-21	0.11 B
			SB415-136-12.5	0.14
			SB415-136-14	0.13
			SB416-137-21	0.077 B
			SB418-140-19	0.13
			SB419-141-17	0.2
			SB421-143-16	0.16
			SB501-144-12	0.18
			SB502-145-13	0.18
			SB503-149-13	0.07 B
			SB504-722-14.0	0.174 B
			SB505-723-17.0	0.124 B
			SB601-150-13	0.13
			SB602-151-15	0.08 B
			SB604-153-15	0.11 B
			SB801-154-18	0.1 B
			SB802-155-17	0.02 B
			SB806-159-18.9	0.13
			SB807-160-18.2	0.12 B
			SB808-161-15	0.04 B
			SB809-162-18	0.02 B
			SB810-163-12.0	0.05 B

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SB811-164-23	0.13
			SB813-730-10.5	0.173 B
			SB816-733-12.0	0.157
			SB822-739-11.0	0.248 B
			SB-BH218-15.0-3660	0.17
			SB-BH220-20.0-3662	0.172
			SB-BH221-15.0-3663	0.155
			SB-BH226-12.0-3668	0.151
			SB-BH227-15.0-3669	0.12 B
			SB-MW228-11.0-3615	0.398 E
			SB-MW229-11.0-3614	0.192
			SB-MW229-28.5-3618	0.146
			SB-MW313-11.0-3591	0.284 E
			SB-MW314-15.0-3594	0.226 E
			SB-MW422-15.0-3609	0.138 E
			SB-MW423-15.0-3612	0.173 E
			SB-MW424-14.0-3621	0.067 B
			SB-MW860-15.0-3597	0.046 B
			SB-MW861-34.5-3596	0.083 B
			SB-MW861-38.0-3600	0.064 B
			SB-MW862-11.5-3603	0.138
			SB-MW863-32.0-3606	0.073 B
			SB-OTFL11-13.0-3658	0.221
			SB-OTFL12-13.5-3659	0.18
			SB-TWP830-15.0-3501	0.127
			SB-TWP831-15.0-3504	0.093 B
			SB-TWP832-12.5-3507	0.213
			SB-TWP834-14.0-3513	0.26 E
			SB-TWP835-15.0-3516	0.171
			SB-TWP836-15.0-3519	0.206
			SB-TWP837-19.0-3522	0.162 E
			SB-TWP838-14.0-3525	0.153
			SB-TWP839-14.0-3528	0.137
			SB-TWP840-12.0-3531	0.117 B
			SB-TWP844-11.0-3543	0.118 BE
			SB-TWP845-13.0-3546	0.053 BE
			SB-TWP846-16.0-3549	0.12 BE
			SB-TWP848-11.0-3555	0.174
			SB-TWP849-11.0-3558	0.186 E
			SB-TWP850-17.0-3561	0.207
			SB-TWP851-18.0-3564	0.098 J
			SB-TWP852-15.0-3567	0.05 B
			SB-TWP853-16.5-3570	0.145
			SB-TWP854-13.0-3573	0.155

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SB-TWP855-15.0-3576	0.129
			SB-TWP856-11.0-3579	0.07 B
			SB-TWP857-11.0-3582	0.057 B
			SB-TWP858-16.0-3585	0.054 J
			SB-TWP859-18.0-3588	0.156
Vanadium	mg/Kg	35.2	SB213-097-12.5	36.3
			SB414-135-21	44.5
			SB816-733-12.0	38.1
			SB-BH218-15.0-3660	41.8
			SB-BH220-20.0-3662	41.7
			SB-BH221-15.0-3663	37.3
			SB-MW228-11.0-3615	41.6 N
			SB-MW229-11.0-3614	39.4
			SB-MW314-15.0-3594	38.5 *
			SB-OTFL11-13.0-3658	49.4
			SB-OTFL12-13.5-3659	37.2
			SB-TWP832-12.5-3507	37.1 *N
			SB-TWP834-14.0-3513	36.2
			SB-TWP835-15.0-3516	37.7
			SB-TWP838-14.0-3525	36.8
			SB-TWP839-14.0-3528	35.8
			SB-TWP846-16.0-3549	35.9 N
			SB-TWP848-11.0-3555	36.5 *N
			SB-TWP853-16.5-3570	36.8
			SB-TWP854-13.0-3573	36.6
			SB-TWP859-18.0-3588	36.5
PAHs				
Benzo(g,h,i)perylene	µg/Kg	16	C5-SO-SO-D800-10	100
			SB412-130-15	34.8 J
PCBs				
Aroclor-1254	µg/Kg	--	SB-TWP834-14.0-3513	124
			SB-TWP840-12.0-3531	21.2
			SB-TWP844-11.0-3543	2.4 J
			SB-TWP856-11.0-3579	2.3 J
Pesticides				
4,4'-DDE	µg/Kg	--	SB-BH221-15.0-3663	1.1 J
			SB-MW422-15.0-3609	0.589 J
			SB-TWP831-15.0-3504	1.35 J
			SB-TWP844-11.0-3543	0.645 J
			SB-TWP858-16.0-3585	0.321 J

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
4,4'-DDT	µg/Kg	--	SB-BH221-15.0-3663	0.932 J
			SB-BH226-12.0-3668	1.75 J
			SB-MW422-15.0-3609	0.515 J
			SB-MW861-38.0-3600	1.21 J
			SB-TWP831-15.0-3504	0.989 J
			SB-TWP836-15.0-3519	1.25 J
			SB-TWP837-19.0-3522	1.81
			SB-TWP839-14.0-3528	0.652 J
			SB-TWP844-11.0-3543	1.2 J
			SB-TWP848-11.0-3555	1.77
			SB-TWP849-11.0-3558	1.7
			SB-TWP850-17.0-3561	1.44 J
			SB-TWP851-18.0-3564	1.94
			SB-TWP858-16.0-3585	1.72
			SB-TWP859-18.0-3588	2.01
Radionuclides				
Alpha	pCi/g	15.1	SB214-098-15	18.7
			SB217-101-13	15.6
			SB312-117-15	15.6
			SB401-118-20	16.5
			SB406-123-18	15.8
			SB415-136-14	15.3
			SB4D003-656-14.5	15.3
			SB501-144-12	18.3
			SB502-145-13	16.3
			SB602-151-15	16.3
			SB807-160-18.2	19.5
			SB-MW228-11.0-3615	15.6
			SB-MW314-15.0-3594	17.9

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	28.9	SB203-087-12	32.2
			SB208-092-12	34.9
			SB212-096-12.5	34.7
			SB213-097-12.5	34.3
			SB216-100-10.5	36.5
			SB403-120-18	33.9
			SB406-123-18	29.7
			SB4D003-656-14.5	35.4
			SB501-144-12	31.3
			SB502-145-13	32.9
			SB604-153-15	30.7
			SB802-155-17	30.1
			SB807-160-18.2	32.2
			SB-BH218-15.0-3660	31.2
			SB-BH220-20.0-3662	33
			SB-BH226-12.0-3668	32.6
			SB-MW228-11.0-3615	37.7
			SB-MW229-11.0-3614	35.9
			SB-MW314-15.0-3594	40.8
			SB-TWP832-12.5-3507	30
			SB-TWP838-14.0-3525	30
			SB-TWP839-14.0-3528	33
Radium-226	pCi/g	1.2	SB404-121-25	1.43
			SB811-164-23	1.33
Radium-228	pCi/g	1.26	SB2A001-645-11.0	1.33
			SB2B001-648-16.0	1.31
			SB4D004-657-14.5	1.39
			SB-MH07/08-11.0-3652	1.28
Thorium-228	pCi/g	1.64	SB2B001-648-16.0	1.69
			SB4D004-657-14.5	1.91
			SB4D005-658-15.5	4.66
			SB506-725-13.0	1.87
			SB-MH07-11.0-3651	2.53
			SB-TWP838-14.0-3525	1.67
			SB-TWP848-11.0-3555	1.74

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/g	1.39	SB2B001-648-16.0	1.64
			SB306-111-12.5	1.49 J
			SB421-143-16	1.51 J
			SB4D004-657-14.5	1.5
			SB505-723-17.0	1.97
			SB506-725-13.0	1.43
			SB814-731-19	1.41
			SB823-740-13.0	1.41
			SB-BH221-15.0-3663	1.48
			SB-MH07-11.0-3651	1.62
			SB-MW229-11.0-3614	1.95 J
			SB-MW229-28.5-3618	1.47
			SB-MW314-15.0-3594	2.31
			SB-MW423-15.0-3612	1.82
			SB-MW862-11.5-3603	1.62
			SB-TWP838-14.0-3525	1.6
			SB-TWP848-11.0-3555	1.49
			SB-TWP858-16.0-3585	1.61 J
Thorium-232	pCi/g	1.24	SB208-092-12	1.41
			SB213-097-12.5	1.31
			SB2A002-646-11.0	1.37
			SB2B001-648-16.0	1.47
			SB413-131-19	1.28
			SB4D004-657-14.5	1.37
			SB502-145-13	1.38
			SB506-725-13.0	1.35
			SB-BH220-20.0-3662	1.3
			SB-BH221-15.0-3663	1.62
			SB-MH07/08-11.0-3652	1.72
			SB-MW228-11.0-3615	1.35
			SB-MW229-11.0-3614	1.4 J
			SB-TWP851-18.0-3564	1.57 J
Uranium-235	pCi/g	0.0847	SB205-089-12.5	0.0866 J
			SB413-131-19	0.0893 J
			SB4D001-653-14.5	0.151
			SB503-149-13	0.115 J
			SB-TWP837-19.0-3522	0.374
			SB-TWP851-18.0-3564	0.106 J
Volatile Organics				

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
1,1-Dichloroethene	µg/Kg	--	SB4D003-656-14.5	0.69
			SB505-723-17.0	2.2
			SB-BH218-15.0-3660	1.9
			SB-BH226-12.0-3668	1.46
			SB-BH227-15.0-3669	3.2
			SB-MW229-11.0-3614	0.999 J
			SB-MW229-28.5-3618	1.35
			SB-MW313-11.0-3591	0.823
			SB-MW860-15.0-3597	0.384 J
			SB-MW861-34.5-3596	0.728 J
			SB-MW862-11.5-3603	0.542 J
			SB-MW863-32.0-3606	0.392 J
			SB-TWP835-15.0-3516	0.704 J
			SB-TWP836-15.0-3519	0.899
			SB-TWP838-14.0-3525	1.1
			SB-TWP840-12.0-3531	0.638 J
			SB-TWP850-17.0-3561	0.577 J
			SB-TWP855-15.0-3576	1.02

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Acetone	µg/Kg	--	C5-SO-SO-D800-10	870 J
			SB2B006-651-13.0	4.3
			SB2C001-652-17.0	2.3 J
			SB313-717-13.5	7
			SB404-121-25	12.2 J
			SB4D002-655-12.0	10100 E
			SB4D005-658-15.5	3.1 J
			SB4D006-659-15.0	2.6 J
			SB505-723-17.0	12.6
			SB603-152-15	4.1 J
			SB607-728-17.0	4.2
			SB811-164-23	4.4 J
			SB-BH218-15.0-3660	11
			SB-BH220-20.0-3662	14
			SB-BH221-15.0-3663	11.9
			SB-BH226-12.0-3668	27.8
			SB-BH227-15.0-3669	32.2
			SB-MW228-11.0-3615	14.9
			SB-MW229-11.0-3614	9.87
			SB-MW229-28.5-3618	8.29
			SB-MW313-11.0-3591	3.86
			SB-MW314-15.0-3594	12.4
			SB-MW422-15.0-3609	13.9
			SB-MW423-15.0-3612	11.8
			SB-MW860-15.0-3597	5.66
			SB-MW861-34.5-3596	6.15
			SB-MW861-38.0-3600	3.32 J
			SB-MW863-32.0-3606	2.88 J
			SB-OTFL11-13.0-3658	80.2 J
			SB-OTFL12-13.5-3659	8.38
			SB-TWP830-15.0-3501	68.3 J
			SB-TWP831-15.0-3504	6.61
			SB-TWP832-12.5-3507	6.58
			SB-TWP834-14.0-3513	8.35
			SB-TWP835-15.0-3516	5.1
			SB-TWP836-15.0-3519	6.02
			SB-TWP837-19.0-3522	2.78 J
			SB-TWP838-14.0-3525	9.02
			SB-TWP839-14.0-3528	12.4
			SB-TWP840-12.0-3531	10.9
			SB-TWP846-16.0-3549	5.81
			SB-TWP848-11.0-3555	11.2
			SB-TWP849-11.0-3558	8.27
			SB-TWP850-17.0-3561	6.41

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Acetone	µg/Kg	--	SB-TWP851-18.0-3564	4.18 J
			SB-TWP853-16.5-3570	13.8
			SB-TWP854-13.0-3573	8.59
			SB-TWP855-15.0-3576	7.29
			SB-TWP858-16.0-3585	7.31
			SB-TWP859-18.0-3588	5.84
Benzene	µg/Kg	--	SB302-104-11	1.1
			SB311-116-13	0.83
			SB402-119-23	0.81
			SB403-120-18	0.59 J
			SB404-121-25	1.1
			SB418-140-19	0.078 J
			SB501-144-12	0.98
			SB502-145-13	0.88 J
			SB503-149-13	1.4
			SB603-152-15	4.1
			SB806-159-18.9	0.76
Carbon disulfide	µg/Kg	--	SB212-096-12.5	2.1 J
			SB213-097-12.5	1.5 J
			SB2A001-645-11.0	1.4 J
			SB2C001-652-17.0	0.89 J
			SB313-717-13.5	1.6 J
			SB404-121-25	0.95 J
			SB415-136-12.5	1.5 J
			SB415-136-14	5.9 J
			SB418-140-19	0.79 J
			SB4D002-655-12.0	123 J
			SB4D006-659-15.0	0.6 J
			SB505-723-17.0	0.67 J

* Data qualifier included with concentration value

Table 4-64
Exposure Unit 17D (Deep Soils)
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Toluene	µg/Kg	--	SB210-094-13	1.1 J
			SB217-101-13	4.7
			SB302-104-11	0.8
			SB306-111-12.5	0.63 J
			SB309-114-19	1.6
			SB311-116-13	0.54 J
			SB402-119-23	0.51 J
			SB403-120-18	0.55 J
			SB404-121-25	0.87
			SB411-129-20	1.5
			SB415-136-12.5	2.7
			SB418-140-19	1.1 J
			SB501-144-12	1.4
			SB502-145-13	0.82 J
			SB503-149-13	1.5
			SB603-152-15	1.4
			SB801-154-18	0.3 J
			SB806-159-18.9	0.47 J
			SB807-160-18.2	0.73 J
			SB-MW424-14.0-3621	0.355 J
Xylenes (total)	µg/Kg	--	SB217-101-13	1.1 J
			SB302-104-11	0.41 J
			SB403-120-18	0.34 J
			SB404-121-25	0.34 J
			SB415-136-12.5	16.2
			SB502-145-13	0.58 J
			SB603-152-15	0.91 J
			SB801-154-18	0.32 J

* Data qualifier included with concentration value

Table 4-65
Background Surface Water Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Nitroaromatics							
1,3,5-Trinitrobenzene	µg/L	1/ 10	0.02	0.02	0.02	0.02	D
2,4,6-Trinitrotoluene	µg/L	1/ 10	0.08	0.08	0.08	0.08	D
2,4-Dinitrotoluene	µg/L	1/ 10	0.03	0.03	0.03	0.03	D
2,6-Dinitrotoluene	µg/L	1/ 10	0.05	0.05	0.05	0.05	D
2-Amino-4,6-dinitrotoluene	µg/L	1/ 10	0.08	0.08	0.08	0.08	D
2-Nitrotoluene	µg/L	1/ 10	0.06	0.06	0.06	0.06	D
3-Nitrotoluene	µg/L	1/ 10	0.06	0.06	0.06	0.06	D
4-Amino-2,6-dinitrotoluene	µg/L	1/ 10	0.04	0.04	0.04	0.04	D
4-Nitrotoluene	µg/L	1/ 10	0.06	0.06	0.06	0.06	D
HMX	µg/L	1/ 10	0.08	0.08	0.08	0.08	D
m-Dinitrobenzene	µg/L	1/ 9	0.03	0.03	0.03	0.03	D
Nitrobenzene	µg/L	1/ 10	0.01	0.01	0.01	0.01	D
RDX	µg/L	1/ 10	0.05	0.05	0.05	0.05	D
Tetryl	µg/L	1/ 10	0.03	0.03	0.03	0.03	D
Metals							
Aluminum	µg/L	10/ 10	23.6	5030	56000	5030	G
Aluminum, Dissolved	µg/L	8/ 10	4.43	31.2	51.9	31.2	N
Antimony	µg/L	7/ 10	0.08	2.33	2.33	2.33	D
Antimony, Dissolved	µg/L	10/ 10	0.12	0.65	0.82	0.65	N
Arsenic	µg/L	9/ 10	2.58	6.33	10.60	6.33	G
Arsenic, Dissolved	µg/L	8/ 10	1.24	3.76	5.60	3.76	N
Barium	µg/L	10/ 10	24.40	117.00	141.00	117	N
Barium, Dissolved	µg/L	10/ 10	25.80	115.00	134	115	N
Beryllium	µg/L	2/ 10	0.22	0.25	0.25	0.25	D
Beryllium, Dissolved	µg/L	0/ 10					O
Boron	µg/L	10/ 10	26.70	244.00	347	244	N
Boron, Dissolved	µg/L	10/ 10	23.90	239.00	341	239	N
Cadmium	µg/L	0/ 10					O
Cadmium, Dissolved	µg/L	4/ 10	0.73	1.19	1.19	1.19	D
Calcium	µg/L	10/ 10	37200	141000	174000	141000	N
Calcium, Dissolved	µg/L	10/ 10	40900	141000	171000	141000	N
Chromium	µg/L	`	1.57	7.52	7.52	7.52	D
Chromium, Dissolved	µg/L	3/ 10	1.2	6.69	6.69	6.69	D
Cobalt	µg/L	1/ 10	1.08	1.08	1.08	1.08	D
Cobalt, Dissolved	µg/L	1/ 10	2.01	2.01	2.01	2.01	D
Copper	µg/L	9/ 10	2.3	15	18.4	15	N
Copper, Dissolved	µg/L	10/ 10	2.08	8.39	10.7	8.39	N
Iron	µg/L	10/ 10	114	4740	30400	4740	G
Iron, Dissolved	µg/L	10/ 10	32.9	1360	5630	1360	G
Lead	µg/L	10/ 10	0.14	11.1	75.6	11.1	G
Lead, Dissolved	µg/L	10/ 10	0.05	0.92	1.9	0.92	L
Lithium	µg/L	10/ 10	0.94	13.2	20.3	13.2	N
Lithium, Dissolved	µg/L	10/ 10	0.84	13.4	17.3	13.4	N
Magnesium	µg/L	10/ 10	9730	30200	40200	30200	N
Magnesium, Dissolved	µg/L	10/ 10	10200	30300	39700	30300	N
Manganese	µg/L	10/ 10	24.3	951	1210	951	N

Table 4-65
Background Surface Water Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Metals (continued)							
Manganese, Dissolved	µg/L	10/ 10	30.2	821	6010	821	G
Mercury	µg/L	0/ 10					O
Mercury, Dissolved	µg/L	0/ 10					O
Nickel	µg/L	5/ 10	1.4	7.74	7.74	7.74	D
Nickel, Dissolved	µg/L	2/ 10	0.56	1.81	1.81	1.81	D
Potassium	µg/L	10/ 10	1850	9540	17700	9540	G
Potassium, Dissolved	µg/L	10/ 10	1630	7700	15200	7700	G
Selenium	µg/L	5/ 10	0.34	4.24	4.24	4.24	D
Selenium, Dissolved	µg/L	10/ 10	0.51	2.41	4.32	2.41	L
Silver	µg/L	7/ 10	0.01	0.03	0.03	0.03	D
Silver, Dissolved	µg/L	3/ 10	0.01	0.01	0.011	0.01	D
Sodium	µg/L	10/ 10	3300	179000	1470000	179000	L
Sodium, Dissolved	µg/L	10/ 10	3370	172000	1360000	172000	L
Thallium	µg/L	3/ 10	0.01	0.03	0.03	0.03	D
Thallium, Dissolved	µg/L	7/ 10	0.01	0.24	0.24	0.24	D
Vanadium	µg/L	8/ 10	0.25	8.52	30.4	8.52	G
Vanadium, Dissolved	µg/L	8/ 10	0.26	1.26	1.65	1.26	N
Zinc	µg/L	9/ 10	1.36	70.5	278	70.5	L
Zinc, Dissolved	µg/L	10/ 10	3.99	54.5	54.5	54.5	X
PAHs							
Acenaphthene	µg/L	0/ 10					O
Acenaphthylene	µg/L	0/ 10					O
Anthracene	µg/L	0/ 10					O
Benzo(a)anthracene	µg/L	2/ 10	0.10	0.11	0.108	0.11	D
Benzo(a)pyrene	µg/L	0/ 10					O
Benzo(b)fluoranthene	µg/L	0/ 10					O
Benzo(g,h,i)perylene	µg/L	0/ 10					O
Benzo(k)fluoranthene	µg/L	0/ 10					O
Chrysene	µg/L	2/ 10	0.14	0.15	0.151	0.15	D
Dibenzo(a,h)anthracene	µg/L	0/ 10					O
Fluoranthene	µg/L	2/ 10	0.42	0.52	0.522	0.52	D
Fluorene	µg/L	0/ 10					O
Indeno(1,2,3-cd)pyrene	µg/L	0/ 10					O
Naphthalene	µg/L	0/ 10					O
Phenanthrene	µg/L	1/ 10	0.22	0.22	0.223	0.22	D
Pyrene	µg/L	2/ 10	0.23	0.30	0.302	0.30	D
PCBs							
Aroclor-1016	µg/L	0/ 10					O
Aroclor-1221	µg/L	0/ 10					O
Aroclor-1232	µg/L	0/ 10					O
Aroclor-1242	µg/L	0/ 10					O
Aroclor-1248	µg/L	0/ 10					O
Aroclor-1254	µg/L	0/ 10					O
Aroclor-1260	µg/L	0/ 10					O

Table 4-65
Background Surface Water Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Pesticides							
4,4'-DDD	µg/L	0/ 10					O
4,4'-DDE	µg/L	3/ 10	0.01	0.05	0.0461	0.05	D
4,4'-DDT	µg/L	3/ 10	0.01	0.03	0.0318	0.03	D
Aldrin	µg/L	0/ 10					O
alpha-BHC	µg/L	0/ 10					O
alpha-Chlordane	µg/L	0/ 10					O
beta-BHC	µg/L	0/ 10					O
delta-BHC	µg/L	0/ 10					O
Dieldrin	µg/L	0/ 10					O
Endosulfan I	µg/L	0/ 10					O
Endosulfan II	µg/L	0/ 10					O
Endosulfan sulfate	µg/L	0/ 10					O
Endrin	µg/L	0/ 10					O
Endrin aldehyde	µg/L	0/ 10					O
Endrin ketone	µg/L	0/ 10					O
gamma-BHC (Lindane)	µg/L	0/ 10					O
gamma-Chlordane	µg/L	0/ 10					O
Heptachlor	µg/L	0/ 10					O
Heptachlor epoxide	µg/L	0/ 10					O
Methoxychlor	µg/L	0/ 10					O
Toxaphene	µg/L	0/ 10					O
Radionuclides							
Actinium-227	pCi/L	0/ 10					O
Actinium-227, Dissolved	pCi/L	0/ 10					O
Alpha	pCi/L	6/ 8	2.74	12.2	12.2	12.2	D
Alpha, Dissolved	pCi/L	5/ 8	1.59	16.7	16.7	16.7	D
Americium-241	pCi/L	0/ 10					O
Americium-241, Dissolved	pCi/L	0/ 10					O
Beta	pCi/L	7/ 8	2.33	12.3	12.3	12.3	D
Beta, Dissolved	pCi/L	7/ 8	1.17	9.87	9.87	9.87	D
Cesium-137	pCi/L	0/ 10					O
Cesium-137, Dissolved	pCi/L	0/ 10					O
Cobalt-60	pCi/L	0/ 10					O
Cobalt-60, Dissolved	pCi/L	0/ 10					O
Protactinium-231	pCi/L	0/ 10					O
Protactinium-231, Dissolved	pCi/L	0/ 10					O
Radium-226	pCi/L	2/ 10	0.45	0.49	0.49	0.49	D
Radium-226, Dissolved	pCi/L	2/ 10	0.72	1.37	1.37	1.37	D
Radium-228	pCi/L	6/ 10	0.54	1.43	1.43	1.43	D
Radium-228, Dissolved	pCi/L	4/ 10	0.92	1.09	1.09	1.09	D
Thorium-228	pCi/L	0/ 10				0.41*	O
Thorium-228, Dissolved	pCi/L	1/ 10	0.41	0.41	0.41	0.41	D
Thorium-230	pCi/L	6/ 10	0.29	0.61	0.61	0.61	D
Thorium-230, Dissolved	pCi/L	3/ 10	0.19	0.29	0.29	0.29	D
Thorium-232	pCi/L	0/ 10					O
Thorium-232, Dissolved	pCi/L	0/ 10					O

Table 4-65
Background Surface Water Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Radionuclides (continued)							
Total Uranium	ug/L	8/ 8	0.44	12.50	55.2	12.5	G
Total Uranium, Dissolved	ug/L	8/ 8	0.41	12.40	62.9	12.4	G
Uranium-234	pCi/L	8/ 8	0.25	5.78	19.1	5.78	G
Uranium-234, Dissolved	pCi/L	8/ 8	0.31	6.07	23	6.07	G
Uranium-235	pCi/L	2/ 8	0.30	0.53	0.53	0.53	D
Uranium-235, Dissolved	pCi/L	2/ 8	0.43	0.63	0.63	0.63	D
Uranium-238	pCi/L	7/ 8	0.56	4.81	4.81	4.81	D
Uranium-238, Dissolved	pCi/L	7/ 8	0.62	5.23	5.23	5.23	D
Semivolatile Organics							
1,2,4-Trichlorobenzene	µg/L	0/ 10					O
1,2-Dichlorobenzene	µg/L	0/ 10					O
1,3-Dichlorobenzene	µg/L	0/ 10					O
1,4-Dichlorobenzene	µg/L	0/ 10					O
2,4,5-Trichlorophenol	µg/L	0/ 10					O
2,4,6-Trichlorophenol	µg/L	0/ 10					O
2,4-Dichlorophenol	µg/L	0/ 10					O
2,4-Dimethylphenol	µg/L	0/ 10					O
2,4-Dinitrophenol	µg/L	0/ 10					O
2-Chloronaphthalene	µg/L	0/ 10					O
2-Chlorophenol	µg/L	0/ 10					O
2-Methyl-4,6-dinitrophenol	µg/L	0/ 10					O
2-Methylnaphthalene	µg/L	0/ 10					O
2-Nitroaniline	µg/L	0/ 10					O
2-Nitrophenol	µg/L	0/ 10					O
3,3'-Dichlorobenzidine	µg/L	0/ 10					O
3-Nitroaniline	µg/L	0/ 10					O
4-Bromophenylphenylether	µg/L	0/ 10					O
4-Chloro-3-methylphenol	µg/L	0/ 10					O
4-Chloroaniline	µg/L	0/ 10					O
4-Chlorophenylphenylether	µg/L	0/ 10					O
4-Nitroaniline	µg/L	0/ 10					O
4-Nitrophenol	µg/L	0/ 10					O
bis(2-Chloroethoxy)methane	µg/L	0/ 10					O
bis(2-Chloroethyl)ether	µg/L	0/ 10					O
bis(2-Chloroisopropyl)ether	µg/L	0/ 10					O
bis(2-Ethylhexyl)phthalate	µg/L	0/ 10					O
Butylbenzylphthalate	µg/L	0/ 10					O
Carbazole	µg/L	0/ 10					O
Dibenzofuran	µg/L	0/ 10					O
Diethylphthalate	µg/L	0/ 10					O
Dimethylphthalate	µg/L	0/ 10					O
Di-n-butylphthalate	µg/L	0/ 10					O
Di-n-octylphthalate	µg/L	0/ 10					O
Hexachlorobenzene	µg/L	0/ 10					O
Hexachlorobutadiene	µg/L	0/ 10					O
Hexachlorocyclopentadiene	µg/L	0/ 10					O

Table 4-65
Background Surface Water Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Semivolatile Organics (continued)							
Hexachloroethane	µg/L	0/ 10					O
Isophorone	µg/L	0/ 10					O
m,p-Cresols	µg/L	0/ 10					O
N-Nitroso-di-n-propylamine	µg/L	0/ 10					O
N-Nitrosodiphenylamine	µg/L	0/ 10					O
o-Cresol	µg/L	0/ 10					O
Pentachlorophenol	µg/L	0/ 10					O
Phenol	µg/L	0/ 10					O
Volatile Organics							
1,1,1-Trichloroethane	µg/L	0/ 10					O
1,1,2,2-Tetrachloroethane	µg/L	0/ 10					O
1,1,2-Trichloroethane	µg/L	0/ 10					O
1,1-Dichloroethane	µg/L	0/ 10					O
1,1-Dichloroethene	µg/L	0/ 10					O
1,2-Dichloroethane	µg/L	0/ 10					O
1,2-Dichloropropane	µg/L	1/ 10	1.72	1.72	1.72	1.72	D
2-Butanone	µg/L	1/ 10	15.8	15.8	15.8	15.8	D
2-Hexanone	µg/L	0/ 10					O
4-Methyl-2-pentanone	µg/L	0/ 10					O
Acetone	µg/L	4/ 10	4.2	16.4	16.4	16.4	D
Benzene	µg/L	0/ 10					O
Bromodichloromethane	µg/L	1/ 10	3.25	3.25	3.25	3.25	D
Bromoform	µg/L	0/ 10					O
Bromomethane	µg/L	0/ 10					O
Carbon disulfide	µg/L	0/ 10					O
Carbon tetrachloride	µg/L	0/ 10					O
Chlorobenzene	µg/L	0/ 10					O
Chloroethane	µg/L	0/ 10					O
Chloroform	µg/L	1/ 10	5.3	5.3	5.3	5.3	D
Chloromethane	µg/L	0/ 10					O
cis-1,2-Dichloroethene	µg/L	0/ 10					O
cis-1,3-Dichloropropene	µg/L	0/ 10					O
Dibromochloromethane	µg/L	1/ 10	1.59	1.59	1.59	1.59	D
Ethylbenzene	µg/L	0/ 10					O
Methylene chloride	µg/L	0/ 10					O
Styrene	µg/L	0/ 10					O
Tetrachloroethene	µg/L	1/ 10	0.55	0.55	0.55	0.55	D
Toluene	µg/L	0/ 10					O
trans-1,2-Dichloroethene	µg/L	0/ 10					O
trans-1,3-Dichloropropene	µg/L	0/ 10					O

Table 4-65
Background Surface Water Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Volatile Organics (continued)							
Trichloroethene	µg/L	0/ 10					O
Vinyl chloride	µg/L	0/ 10					O
Xylenes (total)	µg/L	0/ 10					O

[1]Background values based on removal of the following data:
Removal of SW outliers; uranium component and alpha/beta from SWBKG-03 and SWBKG-07

Substitutions:
*0.41 Thorium-228 (Dissolved) SW UTL substituted for Thorium-228 in SW

Dist Codes:
L - Distribution most similar to lognormal
N - Distribution most similar to normal
G - Distribution most similar to gamma
O - No detects, no UTL calculated
X - Distribution significantly different from normal and lognormal
D - Distribution not determined because less than 50% detects or less than 8 detects
Z - Distribution with negative results and therefore treated as normal

Table 4-66
Exposure Unit 1
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	3	34.8 BN	86.6	3
Antimony, Dissolved	µg/L	2	--	--	0
Arsenic, Dissolved	µg/L	3	0.54 B	0.54 B	1
Barium, Dissolved	µg/L	3	24.7	48.7	3
Beryllium, Dissolved	µg/L	3	--	--	0
Boron, Dissolved	µg/L	3	16.4 B	63.7	3
Cadmium, Dissolved	µg/L	3	0.26 B	0.26 B	1
Calcium, Dissolved	µg/L	3	27400	74800	3
Chromium, Dissolved	µg/L	3	--	--	0
Cobalt, Dissolved	µg/L	3	--	--	0
Copper, Dissolved	µg/L	3	1.4 B	2.1 B	3
Iron, Dissolved	µg/L	3	30.1 BE	171	3
Lead, Dissolved	µg/L	3	0.06 BE	0.13 BE	2
Lithium, Dissolved	µg/L	3	1.1 BE	5.4 E	3
Magnesium, Dissolved	µg/L	3	7240	21500	3
Manganese, Dissolved	µg/L	3	4.4 B	9.9 B	3
Mercury, Dissolved	µg/L	3	--	--	0
Nickel, Dissolved	µg/L	3	1.9 B	1.9 B	1
Potassium, Dissolved	µg/L	3	4430	6240 NE	3
Selenium, Dissolved	µg/L	3	0.39 B	1.8 B	3
Silver, Dissolved	µg/L	3	0.06 B	0.1 B	3
Sodium, Dissolved	µg/L	3	2240 E	22800 E	3
Thallium, Dissolved	µg/L	3	0.45 B	0.45 B	1
Vanadium, Dissolved	µg/L	3	--	--	0
Zinc, Dissolved	µg/L	3	3.3 BE	5.3	3
Metals, Total					
Aluminum	µg/L	3	402 N	1280	3
Antimony	µg/L	3	--	--	0
Arsenic	µg/L	3	--	--	0
Barium	µg/L	3	46.6	53.8	3
Beryllium	µg/L	3	--	--	0
Boron	µg/L	3	29.1 B	69	3
Cadmium	µg/L	3	--	--	0
Calcium	µg/L	3	29400	82900	3
Chromium	µg/L	3	2 B	2.3 B	3
Cobalt	µg/L	3	1.2 B	1.2 B	1
Copper	µg/L	3	--	--	0
Iron	µg/L	3	373 EN	2150	3
Lead	µg/L	3	0.07 BE	2.1 E	2
Lithium	µg/L	3	2.9 E	7.2 E	3
Magnesium	µg/L	3	7850	24800	3
Manganese	µg/L	3	11.4	183	3
Mercury	µg/L	3	0.06 B	0.06 B	1

* Data qualifier included with concentration value

Table 4-66
Exposure Unit 1
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	3	--	--	0
Potassium	µg/L	3	4550	5790 NE	3
Selenium	µg/L	3	0.65 B	1.1 B	2
Silver	µg/L	3	--	--	0
Sodium	µg/L	3	2370 E	23400 E	3
Thallium	µg/L	3	0.76	0.76	1
Vanadium	µg/L	3	1.8 B	2.9 B	3
Zinc	µg/L	3	43.7	43.7	1
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	3	--	--	0
2,4,6-Trinitrotoluene	µg/L	3	--	--	0
2,4-Dinitrotoluene	µg/L	3	--	--	0
2,6-Dinitrotoluene	µg/L	3	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	3	--	--	0
2-Nitrotoluene	µg/L	3	--	--	0
3-Dinitrobenzene	µg/L	3	--	--	0
3-Nitrotoluene	µg/L	3	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	3	--	--	0
4-Nitrotoluene	µg/L	3	--	--	0
HMX	µg/L	3	--	--	0
Nitrobenzene	µg/L	3	--	--	0
RDX	µg/L	3	--	--	0
Tetryl	µg/L	3	--	--	0
PAHs					
Acenaphthene	µg/L	3	--	--	0
Acenaphthylene	µg/L	3	--	--	0
Anthracene	µg/L	3	--	--	0
Benzo(a)anthracene	µg/L	3	--	--	0
Benzo(a)pyrene	µg/L	3	--	--	0
Benzo(b)fluoranthene	µg/L	3	--	--	0
Benzo(g,h,i)perylene	µg/L	3	--	--	0
Benzo(k)fluoranthene	µg/L	3	--	--	0
Chrysene	µg/L	3	--	--	0
Dibenzo(a,h)anthracene	µg/L	3	--	--	0
Fluoranthene	µg/L	3	--	--	0
Fluorene	µg/L	3	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	3	--	--	0
Naphthalene	µg/L	3	--	--	0
Phenanthrene	µg/L	3	--	--	0
Pyrene	µg/L	3	--	--	0
PCBs					
Aroclor-1016	µg/L	3	--	--	0
Aroclor-1221	µg/L	3	--	--	0
Aroclor-1232	µg/L	3	--	--	0

* Data qualifier included with concentration value

Table 4-66
Exposure Unit 1
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	3	--	--	0
Aroclor-1248	µg/L	3	--	--	0
Aroclor-1254	µg/L	3	--	--	0
Aroclor-1260	µg/L	3	--	--	0
Pesticides					
4,4'-DDD	µg/L	3	--	--	0
4,4'-DDE	µg/L	3	--	--	0
4,4'-DDT	µg/L	3	--	--	0
Aldrin	µg/L	3	--	--	0
alpha-BHC	µg/L	3	--	--	0
alpha-Chlordane	µg/L	3	--	--	0
beta-BHC	µg/L	3	--	--	0
delta-BHC	µg/L	3	--	--	0
Dieldrin	µg/L	3	--	--	0
Endosulfan I	µg/L	3	--	--	0
Endosulfan II	µg/L	3	--	--	0
Endosulfan sulfate	µg/L	3	--	--	0
Endrin	µg/L	3	--	--	0
Endrin aldehyde	µg/L	3	--	--	0
Endrin ketone	µg/L	3	--	--	0
gamma-BHC (Lindane)	µg/L	3	--	--	0
gamma-Chlordane	µg/L	3	--	--	0
Heptachlor	µg/L	3	--	--	0
Heptachlor epoxide	µg/L	3	--	--	0
Methoxychlor	µg/L	3	--	--	0
Toxaphene	µg/L	3	--	--	0
Radionuclides, Total					
Alpha	pCi/L	3	4.39	6.88	3
Beta	pCi/L	3	7.66	8.31	3
Radium-226	pCi/L	3	0.422 J	0.954 J	3
Thorium-228	pCi/L	3	--	--	0
Thorium-230	pCi/L	3	--	--	0
Thorium-232	pCi/L	3	--	--	0
Total Uranium	µg/L	3	1.12 J	7.67 J	3
Uranium-234	pCi/L	3	2.7	3.15	2
Uranium-235	pCi/L	3	--	--	0
Uranium-238	pCi/L	3	2.53	2.81	2
Semivolatile Organics					
1,2,4-Trichlorobenzene	µg/L	3	--	--	0
1,2-Dichlorobenzene	µg/L	3	--	--	0
1,3-Dichlorobenzene	µg/L	3	--	--	0
1,4-Dichlorobenzene	µg/L	3	--	--	0
2,4,5-Trichlorophenol	µg/L	3	--	--	0
2,4,6-Trichlorophenol	µg/L	3	--	--	0

* Data qualifier included with concentration value

Table 4-66
Exposure Unit 1
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
2,4-Dichlorophenol	µg/L	3	--	--	0
2,4-Dimethylphenol	µg/L	3	--	--	0
2,4-Dinitrophenol	µg/L	3	--	--	0
2-Chloronaphthalene	µg/L	3	--	--	0
2-Chlorophenol	µg/L	3	--	--	0
2-Methyl-4,6-dinitrophenol	µg/L	3	--	--	0
2-Methylnaphthalene	µg/L	3	--	--	0
2-Nitroaniline	µg/L	3	--	--	0
2-Nitrophenol	µg/L	3	--	--	0
3,3'-Dichlorobenzidine	µg/L	3	--	--	0
3-Nitroaniline	µg/L	3	--	--	0
4-Bromophenylphenylether	µg/L	3	--	--	0
4-Chloro-3-methylphenol	µg/L	3	--	--	0
4-Chloroaniline	µg/L	3	--	--	0
4-Chlorophenylphenylether	µg/L	3	--	--	0
4-Nitroaniline	µg/L	3	--	--	0
4-Nitrophenol	µg/L	3	--	--	0
bis(2-Chloroethoxy)methane	µg/L	3	--	--	0
bis(2-Chloroethyl)ether	µg/L	3	--	--	0
bis(2-Chloroisopropyl)ether	µg/L	3	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	3	--	--	0
Butylbenzylphthalate	µg/L	3	--	--	0
Carbazole	µg/L	3	--	--	0
Dibenzofuran	µg/L	3	--	--	0
Diethylphthalate	µg/L	3	--	--	0
Dimethylphthalate	µg/L	3	--	--	0
Di-n-butylphthalate	µg/L	3	--	--	0
Di-n-octylphthalate	µg/L	3	--	--	0
Diphenylamine	µg/L	3	--	--	0
Hexachlorobenzene	µg/L	3	--	--	0
Hexachlorobutadiene	µg/L	3	--	--	0
Hexachlorocyclopentadiene	µg/L	3	--	--	0
Hexachloroethane	µg/L	3	--	--	0
Isophorone	µg/L	3	--	--	0
m,p-Cresols	µg/L	3	--	--	0
N-Nitroso-di-n-propylamine	µg/L	3	--	--	0
o-Cresol	µg/L	3	--	--	0
Pentachlorophenol	µg/L	3	--	--	0
Phenol	µg/L	3	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/L	3	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	3	--	--	0
1,1,2-Trichloroethane	µg/L	3	--	--	0
1,1-Dichloroethane	µg/L	3	--	--	0

* Data qualifier included with concentration value

Table 4-66
Exposure Unit 1
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
1,1-Dichloroethene	µg/L	3	--	--	0
1,2-Dichloroethane	µg/L	3	--	--	0
1,2-Dichloropropane	µg/L	3	--	--	0
2-Butanone	µg/L	3	--	--	0
2-Hexanone	µg/L	3	--	--	0
4-Methyl-2-pentanone	µg/L	3	--	--	0
Acetone	µg/L	3	--	--	0
Benzene	µg/L	3	--	--	0
Bromodichloromethane	µg/L	3	--	--	0
Bromoform	µg/L	3	--	--	0
Bromomethane	µg/L	3	--	--	0
Carbon disulfide	µg/L	3	--	--	0
Carbon tetrachloride	µg/L	3	--	--	0
Chlorobenzene	µg/L	3	--	--	0
Chloroethane	µg/L	3	--	--	0
Chloroform	µg/L	3	--	--	0
Chloromethane	µg/L	3	--	--	0
cis-1,2-Dichloroethene	µg/L	3	--	--	0
cis-1,3-Dichloropropene	µg/L	3	--	--	0
Dibromochloromethane	µg/L	3	--	--	0
Ethylbenzene	µg/L	3	--	--	0
Methylene chloride	µg/L	3	--	--	0
Styrene	µg/L	3	--	--	0
Tetrachloroethene	µg/L	3	--	--	0
Toluene	µg/L	3	--	--	0
trans-1,2-Dichloroethene	µg/L	3	--	--	0
trans-1,3-Dichloropropene	µg/L	3	--	--	0
Trichloroethene	µg/L	3	--	--	0
Vinyl chloride	µg/L	3	--	--	0
Xylenes (total)	µg/L	3	--	--	0

* Data qualifier included with concentration value

Table 4-67
Exposure Unit 4
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Total					
Aluminum	µg/L	1	11100	11100	1
Antimony	µg/L	1	4.4 B	4.4 B	1
Arsenic	µg/L	1	3.9 B	3.9 B	1
Barium	µg/L	1	358	358	1
Beryllium	µg/L	1	0.53 B	0.53 B	1
Boron	µg/L	1	627	627	1
Cadmium	µg/L	1	5.1	5.1	1
Calcium	µg/L	1	157000	157000	1
Chromium	µg/L	1	19.6	19.6	1
Cobalt	µg/L	1	14.2	14.2	1
Copper	µg/L	1	118	118	1
Iron	µg/L	1	22000	22000	1
Lead	µg/L	1	151	151	1
Lithium	µg/L	1	26.8	26.8	1
Magnesium	µg/L	1	27800	27800	1
Manganese	µg/L	1	920	920	1
Mercury	µg/L	1	0.94	0.94	1
Nickel	µg/L	1	33.5	33.5	1
Potassium	µg/L	1	40000	40000	1
Selenium	µg/L	1	10.5 B	10.5 B	1
Silver	µg/L	1	0.29 B	0.29 B	1
Sodium	µg/L	1	3830	3830	1
Thallium	µg/L	1	--	--	0
Vanadium	µg/L	1	20	20	1
Zinc	µg/L	1	1200	1200	1

* Data qualifier included with concentration value

Table 4-68
Exposure Unit 5
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	7	59	233	7
Antimony, Dissolved	µg/L	6	--	--	0
Arsenic, Dissolved	µg/L	7	1.6 B	2.5 B	4
Barium, Dissolved	µg/L	7	16.5	32.7 E	7
Beryllium, Dissolved	µg/L	7	--	--	0
Boron, Dissolved	µg/L	7	6.1 B	132	7
Cadmium, Dissolved	µg/L	7	--	--	0
Calcium, Dissolved	µg/L	7	18400	51100	7
Chromium, Dissolved	µg/L	7	0.75 B	0.75 B	1
Cobalt, Dissolved	µg/L	7	0.76 B	0.76 B	1
Copper, Dissolved	µg/L	7	1.5 B	9.1	5
Iron, Dissolved	µg/L	7	61.3	255	7
Lead, Dissolved	µg/L	7	0.13 BE	0.45 B	7
Lithium, Dissolved	µg/L	7	0.65 BE	3.3	7
Magnesium, Dissolved	µg/L	7	4760	11000	7
Manganese, Dissolved	µg/L	7	5 B	46.9	7
Mercury, Dissolved	µg/L	7	--	--	0
Nickel, Dissolved	µg/L	7	1.7 B	3.4 B	4
Potassium, Dissolved	µg/L	7	2170	5560	7
Selenium, Dissolved	µg/L	7	0.44 B	1.5 B	7
Silver, Dissolved	µg/L	7	0.05 B	0.26 B	7
Sodium, Dissolved	µg/L	7	1120 E	19200 N	7
Thallium, Dissolved	µg/L	7	0.08 B	0.75	2
Vanadium, Dissolved	µg/L	7	0.69 B	1.2 B	3
Zinc, Dissolved	µg/L	7	2.8 B	7.3	7
Metals, Total					
Aluminum	µg/L	7	716	9160	7
Antimony	µg/L	7	2.8 B	3.6 B	3
Arsenic	µg/L	7	3.1 B	5.3 B	4
Barium	µg/L	7	22.5	92.7 E	7
Beryllium	µg/L	7	0.41 B	0.45 B	3
Boron	µg/L	7	20.4 B	154	7
Cadmium	µg/L	7	0.26 B	0.36 B	3
Calcium	µg/L	7	18900	64600	7
Chromium	µg/L	7	0.94 B	11.5	7
Cobalt	µg/L	7	0.73 B	4 B	4
Copper	µg/L	7	23.5	29.1	3
Iron	µg/L	7	812	11600	7
Lead	µg/L	7	0.57 BE	9.9	7
Lithium	µg/L	7	1.4 BE	15.6	7
Magnesium	µg/L	7	5090	16200	7
Manganese	µg/L	7	19.2	207	7
Mercury	µg/L	7	0.06 B	0.08 B	2

* Data qualifier included with concentration value

Table 4-68
Exposure Unit 5
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	7	11.1	13.2	3
Potassium	µg/L	7	2330	7670	7
Selenium	µg/L	7	0.5 B	1.8 B	7
Silver	µg/L	7	0.3 B	0.3 B	3
Sodium	µg/L	7	1150 E	24100 N	7
Thallium	µg/L	7	0.82	0.82	1
Vanadium	µg/L	7	1.6 B	17.1	7
Zinc	µg/L	7	18.1	58.8	5
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	3	--	--	0
2,4,6-Trinitrotoluene	µg/L	3	--	--	0
2,4-Dinitrotoluene	µg/L	8	--	--	0
2,6-Dinitrotoluene	µg/L	8	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	3	--	--	0
2-Nitrotoluene	µg/L	3	--	--	0
3-Dinitrobenzene	µg/L	3	--	--	0
3-Nitrotoluene	µg/L	3	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	3	--	--	0
4-Nitrotoluene	µg/L	3	--	--	0
HMX	µg/L	3	--	--	0
Nitrobenzene	µg/L	8	--	--	0
RDX	µg/L	3	--	--	0
Tetryl	µg/L	3	--	--	0
PAHs					
Acenaphthene	µg/L	8	--	--	0
Acenaphthylene	µg/L	8	--	--	0
Anthracene	µg/L	8	0.14 J	0.14 J	1
Benzo(a)anthracene	µg/L	8	0.54 J	0.54 J	1
Benzo(a)pyrene	µg/L	8	--	--	0
Benzo(b)fluoranthene	µg/L	8	--	--	0
Benzo(g,h,i)perylene	µg/L	8	--	--	0
Benzo(k)fluoranthene	µg/L	8	--	--	0
Chrysene	µg/L	8	0.51 J	0.51 J	1
Dibenzo(a,h)anthracene	µg/L	8	--	--	0
Fluoranthene	µg/L	8	--	--	0
Fluorene	µg/L	8	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	8	--	--	0
Naphthalene	µg/L	8	--	--	0
Phenanthrene	µg/L	8	--	--	0
Pyrene	µg/L	8	0.59 J	0.59 J	1
PCBs					
Aroclor-1016	µg/L	5	--	--	0
Aroclor-1221	µg/L	5	--	--	0
Aroclor-1232	µg/L	5	--	--	0

* Data qualifier included with concentration value

Table 4-68
Exposure Unit 5
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	5	--	--	0
Aroclor-1248	µg/L	5	--	--	0
Aroclor-1254	µg/L	5	--	--	0
Aroclor-1260	µg/L	5	--	--	0
Pesticides					
4,4'-DDD	µg/L	5	--	--	0
4,4'-DDE	µg/L	5	--	--	0
4,4'-DDT	µg/L	5	--	--	0
Aldrin	µg/L	5	--	--	0
alpha-BHC	µg/L	5	--	--	0
alpha-Chlordane	µg/L	5	--	--	0
beta-BHC	µg/L	5	--	--	0
delta-BHC	µg/L	5	--	--	0
Dieldrin	µg/L	5	--	--	0
Endosulfan I	µg/L	5	--	--	0
Endosulfan II	µg/L	5	--	--	0
Endosulfan sulfate	µg/L	5	--	--	0
Endrin	µg/L	5	--	--	0
Endrin aldehyde	µg/L	5	--	--	0
Endrin ketone	µg/L	5	--	--	0
gamma-BHC (Lindane)	µg/L	5	--	--	0
gamma-Chlordane	µg/L	5	--	--	0
Heptachlor	µg/L	5	--	--	0
Heptachlor epoxide	µg/L	5	--	--	0
Methoxychlor	µg/L	5	--	--	0
Toxaphene	µg/L	5	--	--	0
Radionuclides, Total					
Alpha	pCi/L	10	1.81	13.1	10
Beta	pCi/L	10	3.49	23.5	10
Radium-226	pCi/L	10	--	--	0
Thorium-228	pCi/L	10	0.3 J	0.3 J	1
Thorium-230	pCi/L	10	0.0694 J	0.176 J	4
Thorium-232	pCi/L	10	0.0835 J	0.0835 J	1
Total Uranium	µg/L	10	0.475 J	5.15 J	10
Uranium-234	pCi/L	10	0.56 J	1.48	9
Uranium-235	pCi/L	10	--	--	0
Uranium-238	pCi/L	10	0.483 J	1.93	8
Semivolatile Organics					
1,2,4-Trichlorobenzene	µg/L	8	--	--	0
1,2-Dichlorobenzene	µg/L	8	--	--	0
1,3-Dichlorobenzene	µg/L	8	--	--	0
1,4-Dichlorobenzene	µg/L	8	--	--	0
2,4,5-Trichlorophenol	µg/L	8	--	--	0
2,4,6-Trichlorophenol	µg/L	8	--	--	0

* Data qualifier included with concentration value

Table 4-68
Exposure Unit 5
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
2,4-Dichlorophenol	µg/L	8	--	--	0
2,4-Dimethylphenol	µg/L	8	--	--	0
2,4-Dinitrophenol	µg/L	8	--	--	0
2-Chloronaphthalene	µg/L	8	--	--	0
2-Chlorophenol	µg/L	8	--	--	0
2-Methyl-4,6-dinitrophenol	µg/L	8	--	--	0
2-Methylnaphthalene	µg/L	8	--	--	0
2-Nitroaniline	µg/L	8	--	--	0
2-Nitrophenol	µg/L	8	--	--	0
3,3'-Dichlorobenzidine	µg/L	8	--	--	0
3-Nitroaniline	µg/L	8	--	--	0
4-Bromophenylphenylether	µg/L	8	--	--	0
4-Chloro-3-methylphenol	µg/L	8	--	--	0
4-Chloroaniline	µg/L	8	--	--	0
4-Chlorophenylphenylether	µg/L	8	--	--	0
4-Nitroaniline	µg/L	8	--	--	0
4-Nitrophenol	µg/L	8	--	--	0
bis(2-Chloroethoxy)methane	µg/L	8	--	--	0
bis(2-Chloroethyl)ether	µg/L	8	--	--	0
bis(2-Chloroisopropyl)ether	µg/L	8	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	8	--	--	0
Butylbenzylphthalate	µg/L	8	--	--	0
Carbazole	µg/L	8	--	--	0
Dibenzofuran	µg/L	8	--	--	0
Diethylphthalate	µg/L	8	--	--	0
Dimethylphthalate	µg/L	8	--	--	0
Di-n-butylphthalate	µg/L	8	--	--	0
Di-n-octylphthalate	µg/L	8	--	--	0
Diphenylamine	µg/L	8	--	--	0
Hexachlorobenzene	µg/L	8	--	--	0
Hexachlorobutadiene	µg/L	8	--	--	0
Hexachlorocyclopentadiene	µg/L	8	--	--	0
Hexachloroethane	µg/L	8	--	--	0
Isophorone	µg/L	8	--	--	0
m,p-Cresols	µg/L	8	--	--	0
N-Nitroso-di-n-propylamine	µg/L	8	--	--	0
o-Cresol	µg/L	8	--	--	0
Pentachlorophenol	µg/L	8	--	--	0
Phenol	µg/L	8	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/L	5	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	0
1,1,2-Trichloroethane	µg/L	5	--	--	0
1,1-Dichloroethane	µg/L	5	--	--	0

* Data qualifier included with concentration value

Table 4-68
Exposure Unit 5
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
1,1-Dichloroethene	µg/L	5	--	--	0
1,2-Dichloroethane	µg/L	5	--	--	0
1,2-Dichloropropane	µg/L	5	--	--	0
2-Butanone	µg/L	5	--	--	0
2-Hexanone	µg/L	5	--	--	0
4-Methyl-2-pentanone	µg/L	5	--	--	0
Acetone	µg/L	5	--	--	0
Benzene	µg/L	5	--	--	0
Bromodichloromethane	µg/L	5	--	--	0
Bromoform	µg/L	5	--	--	0
Bromomethane	µg/L	5	--	--	0
Carbon disulfide	µg/L	5	--	--	0
Carbon tetrachloride	µg/L	5	--	--	0
Chlorobenzene	µg/L	5	--	--	0
Chloroethane	µg/L	5	--	--	0
Chloroform	µg/L	5	--	--	0
Chloromethane	µg/L	5	--	--	0
cis-1,2-Dichloroethene	µg/L	5	--	--	0
cis-1,3-Dichloropropene	µg/L	5	--	--	0
Dibromochloromethane	µg/L	5	--	--	0
Ethylbenzene	µg/L	5	--	--	0
Methylene chloride	µg/L	5	--	--	0
Styrene	µg/L	5	--	--	0
Tetrachloroethene	µg/L	5	--	--	0
Toluene	µg/L	5	--	--	0
trans-1,2-Dichloroethene	µg/L	5	--	--	0
trans-1,3-Dichloropropene	µg/L	5	--	--	0
Trichloroethene	µg/L	5	--	--	0
Vinyl chloride	µg/L	5	--	--	0
Xylenes (total)	µg/L	5	0.14 J	0.14 J	1

* Data qualifier included with concentration value

Table 4-69
Exposure Unit 6
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	4	40.9 B	91.7	4
Arsenic, Dissolved	µg/L	4	--	--	0
Barium, Dissolved	µg/L	4	13.5	34.5	4
Beryllium, Dissolved	µg/L	4	--	--	0
Boron, Dissolved	µg/L	4	22.4 B	125	4
Cadmium, Dissolved	µg/L	4	--	--	0
Calcium, Dissolved	µg/L	4	19600	52900	4
Chromium, Dissolved	µg/L	4	--	--	0
Cobalt, Dissolved	µg/L	4	--	--	0
Copper, Dissolved	µg/L	4	2 B	8.8	3
Iron, Dissolved	µg/L	4	30.3 B	79	4
Lead, Dissolved	µg/L	4	0.22 BE	2.8 E	4
Lithium, Dissolved	µg/L	4	0.41 BE	2.7 E	4
Magnesium, Dissolved	µg/L	4	5520	11400	4
Manganese, Dissolved	µg/L	4	6.3 B	98.9	4
Mercury, Dissolved	µg/L	4	--	--	0
Nickel, Dissolved	µg/L	4	1.8 B	1.8 B	1
Potassium, Dissolved	µg/L	4	2300	5860	4
Selenium, Dissolved	µg/L	4	0.61 B	1.1 B	3
Silver, Dissolved	µg/L	4	0.05 B	0.11 B	4
Sodium, Dissolved	µg/L	4	1140 E	20100 E	4
Thallium, Dissolved	µg/L	4	--	--	0
Vanadium, Dissolved	µg/L	4	0.7 B	0.7 B	1
Zinc, Dissolved	µg/L	4	3.1 B	63.4	4
Metals, Total					
Aluminum	µg/L	4	531	6420	4
Antimony	µg/L	3	--	--	0
Arsenic	µg/L	4	2.1 B	3.1 B	3
Barium	µg/L	4	21.7	89.3	4
Beryllium	µg/L	3	0.25 B	0.25 B	1
Boron	µg/L	4	34.6 B	157	4
Cadmium	µg/L	3	0.31 B	0.31 B	1
Calcium	µg/L	4	20600	67100	4
Chromium	µg/L	4	0.89 B	8.9	4
Cobalt	µg/L	3	0.68 B	3.3 B	2
Copper	µg/L	4	29.5	29.5	1
Iron	µg/L	4	521	9180	4
Lead	µg/L	4	1.5 BE	9 E	4
Lithium	µg/L	4	1 BE	9.8 E	4
Magnesium	µg/L	4	6100	13500	4
Manganese	µg/L	4	18.7	253	4
Mercury	µg/L	4	0.06 B	0.07 B	3
Nickel	µg/L	4	10.8	10.8	1

* Data qualifier included with concentration value

Table 4-69
Exposure Unit 6
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Potassium	µg/L	4	2340	6980	4
Selenium	µg/L	4	0.34 B	1.3 B	4
Silver	µg/L	4	--	--	0
Sodium	µg/L	4	1260 E	21200 E	4
Thallium	µg/L	4	--	--	0
Vanadium	µg/L	4	1.1 B	12.7	4
Zinc	µg/L	4	16.4	111	4
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	4	0.34	0.34	1
2,4,6-Trinitrotoluene	µg/L	4	--	--	0
2,4-Dinitrotoluene	µg/L	4	--	--	0
2,6-Dinitrotoluene	µg/L	4	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	4	0.16	0.16	1
2-Nitrotoluene	µg/L	4	--	--	0
3-Dinitrobenzene	µg/L	4	--	--	0
3-Nitrotoluene	µg/L	4	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	4	--	--	0
4-Nitrotoluene	µg/L	4	--	--	0
HMX	µg/L	4	--	--	0
Nitrobenzene	µg/L	4	--	--	0
RDX	µg/L	4	--	--	0
Tetryl	µg/L	4	--	--	0
PAHs					
Acenaphthene	µg/L	4	--	--	0
Acenaphthylene	µg/L	4	--	--	0
Anthracene	µg/L	4	--	--	0
Benzo(a)anthracene	µg/L	4	--	--	0
Benzo(a)pyrene	µg/L	4	--	--	0
Benzo(b)fluoranthene	µg/L	4	--	--	0
Benzo(g,h,i)perylene	µg/L	4	--	--	0
Benzo(k)fluoranthene	µg/L	4	--	--	0
Chrysene	µg/L	4	--	--	0
Dibenzo(a,h)anthracene	µg/L	4	--	--	0
Fluoranthene	µg/L	4	--	--	0
Fluorene	µg/L	4	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	4	--	--	0
Naphthalene	µg/L	4	--	--	0
Phenanthrene	µg/L	4	--	--	0
Pyrene	µg/L	4	--	--	0
PCBs					
Aroclor-1016	µg/L	4	--	--	0
Aroclor-1221	µg/L	4	--	--	0
Aroclor-1232	µg/L	4	--	--	0
Aroclor-1242	µg/L	4	--	--	0

* Data qualifier included with concentration value

Table 4-69
Exposure Unit 6
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1248	µg/L	4	--	--	0
Aroclor-1254	µg/L	4	--	--	0
Aroclor-1260	µg/L	4	0.086 J	0.086 J	1
Pesticides					
4,4'-DDD	µg/L	4	--	--	0
4,4'-DDE	µg/L	4	--	--	0
4,4'-DDT	µg/L	4	--	--	0
Aldrin	µg/L	4	--	--	0
alpha-BHC	µg/L	4	--	--	0
alpha-Chlordane	µg/L	4	--	--	0
beta-BHC	µg/L	4	--	--	0
delta-BHC	µg/L	4	--	--	0
Dieldrin	µg/L	4	--	--	0
Endosulfan I	µg/L	4	--	--	0
Endosulfan II	µg/L	4	--	--	0
Endosulfan sulfate	µg/L	4	--	--	0
Endrin	µg/L	4	--	--	0
Endrin aldehyde	µg/L	4	--	--	0
Endrin ketone	µg/L	4	--	--	0
gamma-BHC (Lindane)	µg/L	4	--	--	0
gamma-Chlordane	µg/L	4	--	--	0
Heptachlor	µg/L	4	--	--	0
Heptachlor epoxide	µg/L	4	--	--	0
Methoxychlor	µg/L	4	--	--	0
Toxaphene	µg/L	4	--	--	0
Radionuclides, Total					
Alpha	pCi/L	4	1.89	11.6	4
Beta	pCi/L	4	3.23	18.8	4
Radium-226	pCi/L	4	1.09	1.47	2
Thorium-228	pCi/L	4	--	--	0
Thorium-230	pCi/L	4	0.106 J	0.106 J	1
Thorium-232	pCi/L	4	0.0772 J	0.0772 J	1
Total Uranium	µg/L	4	0.502 J	2.78 J	3
Uranium-234	pCi/L	4	0.288 J	0.932 J	3
Uranium-235	pCi/L	4	--	--	0
Uranium-238	pCi/L	4	0.234 J	0.947 J	3
Semivolatile Organics					
1,2,4-Trichlorobenzene	µg/L	4	--	--	0
1,2-Dichlorobenzene	µg/L	4	--	--	0
1,3-Dichlorobenzene	µg/L	4	--	--	0
1,4-Dichlorobenzene	µg/L	4	--	--	0
2,4,5-Trichlorophenol	µg/L	4	--	--	0
2,4,6-Trichlorophenol	µg/L	4	--	--	0
2,4-Dichlorophenol	µg/L	4	--	--	0

* Data qualifier included with concentration value

Table 4-69
Exposure Unit 6
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
2,4-Dimethylphenol	µg/L	4	--	--	0
2,4-Dinitrophenol	µg/L	4	--	--	0
2-Chloronaphthalene	µg/L	4	--	--	0
2-Chlorophenol	µg/L	4	--	--	0
2-Methyl-4,6-dinitrophenol	µg/L	4	--	--	0
2-Methylnaphthalene	µg/L	4	--	--	0
2-Nitroaniline	µg/L	4	--	--	0
2-Nitrophenol	µg/L	4	--	--	0
3,3'-Dichlorobenzidine	µg/L	4	--	--	0
3-Nitroaniline	µg/L	4	--	--	0
4-Bromophenylphenylether	µg/L	4	--	--	0
4-Chloro-3-methylphenol	µg/L	4	--	--	0
4-Chloroaniline	µg/L	4	--	--	0
4-Chlorophenylphenylether	µg/L	4	--	--	0
4-Nitroaniline	µg/L	4	--	--	0
4-Nitrophenol	µg/L	4	--	--	0
bis(2-Chloroethoxy)methane	µg/L	4	--	--	0
bis(2-Chloroethyl)ether	µg/L	4	--	--	0
bis(2-Chloroisopropyl)ether	µg/L	4	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	4	--	--	0
Butylbenzylphthalate	µg/L	4	--	--	0
Carbazole	µg/L	4	--	--	0
Dibenzofuran	µg/L	4	--	--	0
Diethylphthalate	µg/L	4	--	--	0
Dimethylphthalate	µg/L	4	--	--	0
Di-n-butylphthalate	µg/L	4	--	--	0
Di-n-octylphthalate	µg/L	4	--	--	0
Diphenylamine	µg/L	4	--	--	0
Hexachlorobenzene	µg/L	4	--	--	0
Hexachlorobutadiene	µg/L	4	--	--	0
Hexachlorocyclopentadiene	µg/L	4	--	--	0
Hexachloroethane	µg/L	4	--	--	0
Isophorone	µg/L	4	--	--	0
m,p-Cresols	µg/L	4	--	--	0
N-Nitroso-di-n-propylamine	µg/L	4	--	--	0
o-Cresol	µg/L	4	--	--	0
Pentachlorophenol	µg/L	4	--	--	0
Phenol	µg/L	4	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/L	4	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	4	--	--	0
1,1,2-Trichloroethane	µg/L	4	--	--	0
1,1-Dichloroethane	µg/L	4	--	--	0
1,1-Dichloroethene	µg/L	4	--	--	0

* Data qualifier included with concentration value

Table 4-69
Exposure Unit 6
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
1,2-Dichloroethane	µg/L	4	--	--	0
1,2-Dichloropropane	µg/L	4	--	--	0
2-Butanone	µg/L	4	--	--	0
2-Hexanone	µg/L	4	--	--	0
4-Methyl-2-pentanone	µg/L	4	--	--	0
Acetone	µg/L	4	--	--	0
Benzene	µg/L	4	--	--	0
Bromodichloromethane	µg/L	4	--	--	0
Bromoform	µg/L	4	--	--	0
Bromomethane	µg/L	4	--	--	0
Carbon disulfide	µg/L	4	--	--	0
Carbon tetrachloride	µg/L	4	--	--	0
Chlorobenzene	µg/L	4	--	--	0
Chloroethane	µg/L	4	--	--	0
Chloroform	µg/L	4	--	--	0
Chloromethane	µg/L	4	--	--	0
cis-1,2-Dichloroethene	µg/L	4	--	--	0
cis-1,3-Dichloropropene	µg/L	4	--	--	0
Dibromochloromethane	µg/L	4	--	--	0
Ethylbenzene	µg/L	4	--	--	0
Methylene chloride	µg/L	4	--	--	0
Styrene	µg/L	4	--	--	0
Tetrachloroethene	µg/L	4	--	--	0
Toluene	µg/L	4	--	--	0
trans-1,2-Dichloroethene	µg/L	4	--	--	0
trans-1,3-Dichloropropene	µg/L	4	--	--	0
Trichloroethene	µg/L	4	--	--	0
Vinyl chloride	µg/L	4	--	--	0
Xylenes (total)	µg/L	4	--	--	0

* Data qualifier included with concentration value

Table 4-70
Exposure Unit 7
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	1	27.2 B	27.2 B	1
Antimony, Dissolved	µg/L	1	--	--	0
Arsenic, Dissolved	µg/L	1	2.3 B	2.3 B	1
Barium, Dissolved	µg/L	1	34.2 E	34.2 E	1
Beryllium, Dissolved	µg/L	1	--	--	0
Boron, Dissolved	µg/L	1	120	120	1
Cadmium, Dissolved	µg/L	1	--	--	0
Calcium, Dissolved	µg/L	1	59300	59300	1
Chromium, Dissolved	µg/L	1	--	--	0
Cobalt, Dissolved	µg/L	1	--	--	0
Copper, Dissolved	µg/L	1	3.1 B	3.1 B	1
Iron, Dissolved	µg/L	1	42.1 B	42.1 B	1
Lead, Dissolved	µg/L	1	0.24 B	0.24 B	1
Lithium, Dissolved	µg/L	1	3	3	1
Magnesium, Dissolved	µg/L	1	9570	9570	1
Manganese, Dissolved	µg/L	1	9.7 B	9.7 B	1
Mercury, Dissolved	µg/L	1	--	--	0
Nickel, Dissolved	µg/L	1	1.8 B	1.8 B	1
Potassium, Dissolved	µg/L	1	3030	3030	1
Selenium, Dissolved	µg/L	1	1.6 B	1.6 B	1
Silver, Dissolved	µg/L	1	0.23 B	0.23 B	1
Sodium, Dissolved	µg/L	1	1370 N	1370 N	1
Thallium, Dissolved	µg/L	1	0.13 B	0.13 B	1
Vanadium, Dissolved	µg/L	1	--	--	0
Zinc, Dissolved	µg/L	1	2.5 B	2.5 B	1
Metals, Total					
Aluminum	µg/L	1	933	933	1
Antimony	µg/L	1	--	--	0
Arsenic	µg/L	1	1.9 B	1.9 B	1
Barium	µg/L	1	43.1 E	43.1 E	1
Beryllium	µg/L	1	--	--	0
Boron	µg/L	1	132	132	1
Cadmium	µg/L	1	--	--	0
Calcium	µg/L	1	69600	69600	1
Chromium	µg/L	1	0.74 B	0.74 B	1
Cobalt	µg/L	1	--	--	0
Copper	µg/L	1	--	--	0
Iron	µg/L	1	933	933	1
Lead	µg/L	1	0.62 B	0.62 B	1
Lithium	µg/L	1	4.1	4.1	1
Magnesium	µg/L	1	11400	11400	1
Manganese	µg/L	1	19.1	19.1	1
Mercury	µg/L	1	--	--	0

* Data qualifier included with concentration value

Table 4-70
Exposure Unit 7
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	1	--	--	0
Potassium	µg/L	1	3170	3170	1
Selenium	µg/L	1	1.8 B	1.8 B	1
Silver	µg/L	1	--	--	0
Sodium	µg/L	1	1490 N	1490 N	1
Thallium	µg/L	1	--	--	0
Vanadium	µg/L	1	2 B	2 B	1
Zinc	µg/L	1	--	--	0
Radionuclides, Total					
Actinium-227	pCi/L	1	--	--	0
Alpha	pCi/L	2	3.15	15.6	2
Americium-241	pCi/L	1	--	--	0
Beta	pCi/L	2	3.95	17.5	2
Cesium-137	pCi/L	1	--	--	0
Cobalt-60	pCi/L	1	--	--	0
Protactinium-231	pCi/L	1	--	--	0
Radium-226	pCi/L	2	0.725	0.729 J	2
Radium-228	pCi/L	1	--	--	0
Thorium-228	pCi/L	2	17.7	17.7	1
Thorium-230	pCi/L	2	24	24	1
Thorium-232	pCi/L	2	12.5	12.5	1
Total Uranium	µg/L	2	2.02 J	6.78	2
Uranium-234	pCi/L	2	0.874 J	6.81	2
Uranium-235	pCi/L	2	0.397	0.397	1
Uranium-238	pCi/L	2	0.69 J	6.32	2

* Data qualifier included with concentration value

Table 4-71
Exposure Unit 8
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	3	11.2 B	58.1	3
Antimony, Dissolved	µg/L	3	--	--	0
Arsenic, Dissolved	µg/L	3	2.8 B	3.5 B	3
Barium, Dissolved	µg/L	3	42.1 E	51 E	3
Beryllium, Dissolved	µg/L	3	--	--	0
Boron, Dissolved	µg/L	3	177	389	3
Cadmium, Dissolved	µg/L	3	0.5 B	0.5 B	1
Calcium, Dissolved	µg/L	3	77700	83200	3
Chromium, Dissolved	µg/L	3	--	--	0
Cobalt, Dissolved	µg/L	3	0.85 B	0.85 B	1
Copper, Dissolved	µg/L	3	4.7 B	8.4	3
Iron, Dissolved	µg/L	3	31.3 B	356	3
Lead, Dissolved	µg/L	3	0.11 B	0.68 B	3
Lithium, Dissolved	µg/L	3	2.5	7.9	3
Magnesium, Dissolved	µg/L	3	15500	25400	3
Manganese, Dissolved	µg/L	3	29.7	398	3
Mercury, Dissolved	µg/L	3	--	--	0
Nickel, Dissolved	µg/L	3	2.8 B	4 B	3
Potassium, Dissolved	µg/L	3	4570	6330	3
Selenium, Dissolved	µg/L	3	1.2 B	1.8 B	3
Silver, Dissolved	µg/L	3	0.22 B	0.28 B	3
Sodium, Dissolved	µg/L	3	5400 N	31500 N	3
Thallium, Dissolved	µg/L	3	--	--	0
Vanadium, Dissolved	µg/L	3	0.76 B	1.4 B	2
Zinc, Dissolved	µg/L	3	32.6	292	3
Metals, Total					
Aluminum	µg/L	3	1620	4560	3
Antimony	µg/L	3	3.2 B	3.9 B	3
Arsenic	µg/L	3	1.9 B	5 B	3
Barium	µg/L	3	56.3 E	73.5 E	3
Beryllium	µg/L	3	0.18 B	0.23 B	2
Boron	µg/L	3	194	211	3
Cadmium	µg/L	3	0.34 B	0.71 B	2
Calcium	µg/L	3	71400	105000	3
Chromium	µg/L	3	1.9 B	6.8	3
Cobalt	µg/L	3	0.86 B	1.8 B	2
Copper	µg/L	3	10.1	19.9	3
Iron	µg/L	3	1820	5540	3
Lead	µg/L	3	1.1 B	4.6	3
Lithium	µg/L	3	3.7	12.4	3
Magnesium	µg/L	3	14200	32200	3
Manganese	µg/L	3	143	514	3
Mercury	µg/L	3	--	--	0

* Data qualifier included with concentration value

Table 4-71
Exposure Unit 8
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	3	8.7	8.7	1
Potassium	µg/L	3	5160	6400	3
Selenium	µg/L	3	1.7 B	2 B	2
Silver	µg/L	3	0.26 B	0.32 B	2
Sodium	µg/L	3	4150 N	36900 N	3
Thallium	µg/L	3	--	--	0
Vanadium	µg/L	3	2.7 B	9.4	3
Zinc	µg/L	3	99.3	218	3
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	1	--	--	0
2,4,6-Trinitrotoluene	µg/L	1	--	--	0
2,4-Dinitrotoluene	µg/L	2	--	--	0
2,6-Dinitrotoluene	µg/L	2	0.34	0.34	1
2-Amino-4,6-dinitrotoluene	µg/L	1	0.28	0.28	1
2-Nitrotoluene	µg/L	1	--	--	0
3-Dinitrobenzene	µg/L	1	--	--	0
3-Nitrotoluene	µg/L	1	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	1	--	--	0
4-Nitrotoluene	µg/L	1	--	--	0
HMX	µg/L	1	--	--	0
Nitrobenzene	µg/L	2	--	--	0
RDX	µg/L	1	--	--	0
Tetryl	µg/L	1	--	--	0
PAHs					
Acenaphthene	µg/L	2	--	--	0
Acenaphthylene	µg/L	2	--	--	0
Anthracene	µg/L	2	--	--	0
Benzo(a)anthracene	µg/L	2	--	--	0
Benzo(a)pyrene	µg/L	2	--	--	0
Benzo(b)fluoranthene	µg/L	2	--	--	0
Benzo(g,h,i)perylene	µg/L	2	--	--	0
Benzo(k)fluoranthene	µg/L	2	--	--	0
Chrysene	µg/L	2	--	--	0
Dibenzo(a,h)anthracene	µg/L	2	--	--	0
Fluoranthene	µg/L	2	--	--	0
Fluorene	µg/L	2	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	2	--	--	0
Naphthalene	µg/L	2	--	--	0
Phenanthrene	µg/L	2	--	--	0
Pyrene	µg/L	2	--	--	0
PCBs					
Aroclor-1016	µg/L	2	--	--	0
Aroclor-1221	µg/L	2	--	--	0
Aroclor-1232	µg/L	2	--	--	0

* Data qualifier included with concentration value

Table 4-71
Exposure Unit 8
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	2	--	--	0
Aroclor-1248	µg/L	2	--	--	0
Aroclor-1254	µg/L	2	--	--	0
Aroclor-1260	µg/L	2	--	--	0
Pesticides					
4,4'-DDD	µg/L	2	--	--	0
4,4'-DDE	µg/L	2	--	--	0
4,4'-DDT	µg/L	2	--	--	0
Aldrin	µg/L	2	--	--	0
alpha-BHC	µg/L	2	--	--	0
alpha-Chlordane	µg/L	2	--	--	0
beta-BHC	µg/L	2	--	--	0
delta-BHC	µg/L	2	--	--	0
Dieldrin	µg/L	2	--	--	0
Endosulfan I	µg/L	2	--	--	0
Endosulfan II	µg/L	2	--	--	0
Endosulfan sulfate	µg/L	2	--	--	0
Endrin	µg/L	2	--	--	0
Endrin aldehyde	µg/L	2	--	--	0
Endrin ketone	µg/L	2	--	--	0
gamma-BHC (Lindane)	µg/L	2	--	--	0
gamma-Chlordane	µg/L	2	--	--	0
Heptachlor	µg/L	2	--	--	0
Heptachlor epoxide	µg/L	2	--	--	0
Methoxychlor	µg/L	2	--	--	0
Toxaphene	µg/L	2	--	--	0
Radionuclides, Total					
Alpha	pCi/L	3	5	10.6	3
Beta	pCi/L	3	8.4	9.73	3
Radium-226	pCi/L	2	--	--	0
Thorium-228	pCi/L	2	--	--	0
Thorium-230	pCi/L	2	0.228 J	0.228 J	1
Thorium-232	pCi/L	2	--	--	0
Total Uranium	µg/L	2	7.74 J	12.1	2
Uranium-234	pCi/L	2	3.24	4.22	2
Uranium-235	pCi/L	2	--	--	0
Uranium-238	pCi/L	2	2.72	3.5	2
Semivolatile Organics					
1,2,4-Trichlorobenzene	µg/L	2	--	--	0
1,2-Dichlorobenzene	µg/L	2	--	--	0
1,3-Dichlorobenzene	µg/L	2	--	--	0
1,4-Dichlorobenzene	µg/L	2	--	--	0
2,4,5-Trichlorophenol	µg/L	2	--	--	0
2,4,6-Trichlorophenol	µg/L	2	--	--	0

* Data qualifier included with concentration value

Table 4-71
Exposure Unit 8
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
2,4-Dichlorophenol	µg/L	2	--	--	0
2,4-Dimethylphenol	µg/L	2	--	--	0
2,4-Dinitrophenol	µg/L	2	--	--	0
2-Chloronaphthalene	µg/L	2	--	--	0
2-Chlorophenol	µg/L	2	--	--	0
2-Methyl-4,6-dinitrophenol	µg/L	2	--	--	0
2-Methylnaphthalene	µg/L	2	--	--	0
2-Nitroaniline	µg/L	2	--	--	0
2-Nitrophenol	µg/L	2	--	--	0
3,3'-Dichlorobenzidine	µg/L	2	--	--	0
3-Nitroaniline	µg/L	2	--	--	0
4-Bromophenylphenylether	µg/L	2	--	--	0
4-Chloro-3-methylphenol	µg/L	2	--	--	0
4-Chloroaniline	µg/L	2	--	--	0
4-Chlorophenylphenylether	µg/L	2	--	--	0
4-Nitroaniline	µg/L	2	--	--	0
4-Nitrophenol	µg/L	2	--	--	0
bis(2-Chloroethoxy)methane	µg/L	2	--	--	0
bis(2-Chloroethyl)ether	µg/L	2	--	--	0
bis(2-Chloroisopropyl)ether	µg/L	2	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	2	--	--	0
Butylbenzylphthalate	µg/L	2	--	--	0
Carbazole	µg/L	2	--	--	0
Dibenzofuran	µg/L	2	--	--	0
Diethylphthalate	µg/L	2	--	--	0
Dimethylphthalate	µg/L	2	--	--	0
Di-n-butylphthalate	µg/L	2	--	--	0
Di-n-octylphthalate	µg/L	2	--	--	0
Diphenylamine	µg/L	2	--	--	0
Hexachlorobenzene	µg/L	2	--	--	0
Hexachlorobutadiene	µg/L	2	--	--	0
Hexachlorocyclopentadiene	µg/L	2	--	--	0
Hexachloroethane	µg/L	2	--	--	0
Isophorone	µg/L	2	--	--	0
m,p-Cresols	µg/L	2	--	--	0
N-Nitroso-di-n-propylamine	µg/L	2	--	--	0
o-Cresol	µg/L	2	--	--	0
Pentachlorophenol	µg/L	2	--	--	0
Phenol	µg/L	2	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/L	1	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	1	--	--	0
1,1,2-Trichloroethane	µg/L	1	--	--	0
1,1-Dichloroethane	µg/L	1	--	--	0

* Data qualifier included with concentration value

Table 4-71
Exposure Unit 8
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
1,1-Dichloroethene	µg/L	1	--	--	0
1,2-Dichloroethane	µg/L	1	--	--	0
1,2-Dichloropropane	µg/L	1	--	--	0
2-Butanone	µg/L	1	--	--	0
2-Hexanone	µg/L	1	--	--	0
4-Methyl-2-pentanone	µg/L	1	--	--	0
Acetone	µg/L	1	--	--	0
Benzene	µg/L	1	--	--	0
Bromodichloromethane	µg/L	1	--	--	0
Bromoform	µg/L	1	--	--	0
Bromomethane	µg/L	1	--	--	0
Carbon disulfide	µg/L	1	--	--	0
Carbon tetrachloride	µg/L	1	--	--	0
Chlorobenzene	µg/L	1	--	--	0
Chloroethane	µg/L	1	--	--	0
Chloroform	µg/L	1	--	--	0
Chloromethane	µg/L	1	--	--	0
cis-1,2-Dichloroethene	µg/L	1	--	--	0
cis-1,3-Dichloropropene	µg/L	1	--	--	0
Dibromochloromethane	µg/L	1	--	--	0
Ethylbenzene	µg/L	1	--	--	0
Methylene chloride	µg/L	1	--	--	0
Styrene	µg/L	1	--	--	0
Tetrachloroethene	µg/L	1	--	--	0
Toluene	µg/L	1	--	--	0
trans-1,2-Dichloroethene	µg/L	1	--	--	0
trans-1,3-Dichloropropene	µg/L	1	--	--	0
Trichloroethene	µg/L	1	--	--	0
Vinyl chloride	µg/L	1	--	--	0
Xylenes (total)	µg/L	1	--	--	0

* Data qualifier included with concentration value

Table 4-72
Exposure Unit 10
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	3	10.2 B	16.2 B	2
Antimony, Dissolved	µg/L	3	--	--	0
Arsenic, Dissolved	µg/L	3	--	--	0
Barium, Dissolved	µg/L	3	51.5	56.7	3
Beryllium, Dissolved	µg/L	3	--	--	0
Boron, Dissolved	µg/L	3	8 B	29.6 B	3
Cadmium, Dissolved	µg/L	3	--	--	0
Calcium, Dissolved	µg/L	3	79000	140000	3
Chromium, Dissolved	µg/L	3	--	--	0
Cobalt, Dissolved	µg/L	3	--	--	0
Copper, Dissolved	µg/L	3	1.8 B	5.1	3
Iron, Dissolved	µg/L	3	14.6 B	31.7 B	3
Lead, Dissolved	µg/L	3	0.09 BE	1.4 BE	3
Lithium, Dissolved	µg/L	3	0.4 BE	1.7 BE	3
Magnesium, Dissolved	µg/L	3	17500	27900	3
Manganese, Dissolved	µg/L	3	2.3 B	6.9 B	3
Mercury, Dissolved	µg/L	3	--	--	0
Nickel, Dissolved	µg/L	3	1.8 B	1.8 B	1
Potassium, Dissolved	µg/L	3	648	6370	3
Selenium, Dissolved	µg/L	3	0.54 B	1.2 B	3
Silver, Dissolved	µg/L	3	0.05 B	0.1 B	3
Sodium, Dissolved	µg/L	3	4350 E	4620 E	3
Thallium, Dissolved	µg/L	3	--	--	0
Vanadium, Dissolved	µg/L	3	--	--	0
Zinc, Dissolved	µg/L	3	18.7	932	3
Metals, Total					
Aluminum	µg/L	3	264	1630	3
Antimony	µg/L	3	--	--	0
Arsenic	µg/L	3	2.6 B	2.6 B	1
Barium	µg/L	3	56.4	74.7	3
Beryllium	µg/L	3	--	--	0
Boron	µg/L	3	20.5 B	34.3 B	3
Cadmium	µg/L	3	0.26 B	0.26 B	1
Calcium	µg/L	3	79200	167000	3
Chromium	µg/L	3	0.62 B	2 B	3
Cobalt	µg/L	3	0.77 B	0.77 B	1
Copper	µg/L	3	9.4	9.4	1
Iron	µg/L	3	285	2100	3
Lead	µg/L	3	0.31 BE	6.7 E	3
Lithium	µg/L	3	0.79 BE	3.1 E	3
Magnesium	µg/L	3	17700	34100	3
Manganese	µg/L	3	10.4	83.5	3
Mercury	µg/L	3	0.05 B	0.05 B	1

* Data qualifier included with concentration value

Table 4-72
Exposure Unit 10
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	3	--	--	0
Potassium	µg/L	3	1480	6550	3
Selenium	µg/L	3	0.72 B	1.8 B	3
Silver	µg/L	3	--	--	0
Sodium	µg/L	3	4380 E	4830 E	3
Thallium	µg/L	3	--	--	0
Vanadium	µg/L	3	0.82 B	3.1 B	3
Zinc	µg/L	3	50.8	1460	3
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	3	--	--	0
2,4,6-Trinitrotoluene	µg/L	3	--	--	0
2,4-Dinitrotoluene	µg/L	3	--	--	0
2,6-Dinitrotoluene	µg/L	3	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	3	--	--	0
2-Nitrotoluene	µg/L	3	--	--	0
3-Dinitrobenzene	µg/L	3	--	--	0
3-Nitrotoluene	µg/L	3	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	3	--	--	0
4-Nitrotoluene	µg/L	3	--	--	0
HMX	µg/L	3	--	--	0
Nitrobenzene	µg/L	3	--	--	0
RDX	µg/L	3	--	--	0
Tetryl	µg/L	3	--	--	0
PAHs					
Acenaphthene	µg/L	3	--	--	0
Acenaphthylene	µg/L	3	--	--	0
Anthracene	µg/L	3	--	--	0
Benzo(a)anthracene	µg/L	3	--	--	0
Benzo(a)pyrene	µg/L	3	--	--	0
Benzo(b)fluoranthene	µg/L	3	--	--	0
Benzo(g,h,i)perylene	µg/L	3	--	--	0
Benzo(k)fluoranthene	µg/L	3	--	--	0
Chrysene	µg/L	3	--	--	0
Dibenzo(a,h)anthracene	µg/L	3	--	--	0
Fluoranthene	µg/L	3	--	--	0
Fluorene	µg/L	3	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	3	--	--	0
Naphthalene	µg/L	3	--	--	0
Phenanthrene	µg/L	3	--	--	0
Pyrene	µg/L	3	--	--	0
PCBs					
Aroclor-1016	µg/L	3	--	--	0
Aroclor-1221	µg/L	3	--	--	0
Aroclor-1232	µg/L	3	--	--	0

* Data qualifier included with concentration value

Table 4-72
Exposure Unit 10
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	3	--	--	0
Aroclor-1248	µg/L	3	--	--	0
Aroclor-1254	µg/L	3	--	--	0
Aroclor-1260	µg/L	3	--	--	0
Pesticides					
4,4'-DDD	µg/L	3	--	--	0
4,4'-DDE	µg/L	3	--	--	0
4,4'-DDT	µg/L	3	--	--	0
Aldrin	µg/L	3	--	--	0
alpha-BHC	µg/L	3	--	--	0
alpha-Chlordane	µg/L	3	--	--	0
beta-BHC	µg/L	3	--	--	0
delta-BHC	µg/L	3	--	--	0
Dieldrin	µg/L	3	--	--	0
Endosulfan I	µg/L	3	--	--	0
Endosulfan II	µg/L	3	--	--	0
Endosulfan sulfate	µg/L	3	--	--	0
Endrin	µg/L	3	--	--	0
Endrin aldehyde	µg/L	3	--	--	0
Endrin ketone	µg/L	3	--	--	0
gamma-BHC (Lindane)	µg/L	3	--	--	0
gamma-Chlordane	µg/L	3	--	--	0
Heptachlor	µg/L	3	--	--	0
Heptachlor epoxide	µg/L	3	--	--	0
Methoxychlor	µg/L	3	--	--	0
Toxaphene	µg/L	3	--	--	0
Radionuclides, Total					
Actinium-227	pCi/L	1	--	--	0
Alpha	pCi/L	4	7.76	10.3	4
Americium-241	pCi/L	1	--	--	0
Beta	pCi/L	4	5.07	12.4	4
Cesium-137	pCi/L	1	--	--	0
Cobalt-60	pCi/L	1	--	--	0
Protactinium-231	pCi/L	1	--	--	0
Radium-226	pCi/L	4	0.428 J	3.66	2
Radium-228	pCi/L	1	--	--	0
Thorium-228	pCi/L	4	0.17	0.202 J	2
Thorium-230	pCi/L	4	0.0848 J	0.255	2
Thorium-232	pCi/L	4	--	--	0
Total Uranium	µg/L	4	6.87 J	10.4	4
Uranium-234	pCi/L	4	2.19	5.29	4
Uranium-235	pCi/L	4	0.246	0.246	1
Uranium-238	pCi/L	4	2.34	4.43	4
Semivolatile Organics					

* Data qualifier included with concentration value

Table 4-72
Exposure Unit 10
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
1,2,4-Trichlorobenzene	µg/L	3	--	--	0
1,2-Dichlorobenzene	µg/L	3	--	--	0
1,3-Dichlorobenzene	µg/L	3	--	--	0
1,4-Dichlorobenzene	µg/L	3	--	--	0
2,4,5-Trichlorophenol	µg/L	3	--	--	0
2,4,6-Trichlorophenol	µg/L	3	--	--	0
2,4-Dichlorophenol	µg/L	3	--	--	0
2,4-Dimethylphenol	µg/L	3	--	--	0
2,4-Dinitrophenol	µg/L	3	--	--	0
2-Chloronaphthalene	µg/L	3	--	--	0
2-Chlorophenol	µg/L	3	--	--	0
2-Methyl-4,6-dinitrophenol	µg/L	3	--	--	0
2-Methylnaphthalene	µg/L	3	--	--	0
2-Nitroaniline	µg/L	3	--	--	0
2-Nitrophenol	µg/L	3	--	--	0
3,3'-Dichlorobenzidine	µg/L	3	--	--	0
3-Nitroaniline	µg/L	3	--	--	0
4-Bromophenylphenylether	µg/L	3	--	--	0
4-Chloro-3-methylphenol	µg/L	3	--	--	0
4-Chloroaniline	µg/L	3	--	--	0
4-Chlorophenylphenylether	µg/L	3	--	--	0
4-Nitroaniline	µg/L	3	--	--	0
4-Nitrophenol	µg/L	3	--	--	0
bis(2-Chloroethoxy)methane	µg/L	3	--	--	0
bis(2-Chloroethyl)ether	µg/L	3	--	--	0
bis(2-Chloroisopropyl)ether	µg/L	3	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	3	--	--	0
Butylbenzylphthalate	µg/L	3	--	--	0
Carbazole	µg/L	3	--	--	0
Dibenzofuran	µg/L	3	--	--	0
Diethylphthalate	µg/L	3	--	--	0
Dimethylphthalate	µg/L	3	--	--	0
Di-n-butylphthalate	µg/L	3	--	--	0
Di-n-octylphthalate	µg/L	3	--	--	0
Diphenylamine	µg/L	3	--	--	0
Hexachlorobenzene	µg/L	3	--	--	0
Hexachlorobutadiene	µg/L	3	--	--	0
Hexachlorocyclopentadiene	µg/L	3	--	--	0
Hexachloroethane	µg/L	3	--	--	0
Isophorone	µg/L	3	--	--	0
m,p-Cresols	µg/L	3	--	--	0
N-Nitroso-di-n-propylamine	µg/L	3	--	--	0
o-Cresol	µg/L	3	--	--	0
Pentachlorophenol	µg/L	3	--	--	0

* Data qualifier included with concentration value

Table 4-72
Exposure Unit 10
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Phenol	µg/L	3	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/L	3	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	3	--	--	0
1,1,2-Trichloroethane	µg/L	3	--	--	0
1,1-Dichloroethane	µg/L	3	--	--	0
1,1-Dichloroethene	µg/L	3	--	--	0
1,2-Dichloroethane	µg/L	3	--	--	0
1,2-Dichloropropane	µg/L	3	--	--	0
2-Butanone	µg/L	3	--	--	0
2-Hexanone	µg/L	3	--	--	0
4-Methyl-2-pentanone	µg/L	3	--	--	0
Acetone	µg/L	3	--	--	0
Benzene	µg/L	3	--	--	0
Bromodichloromethane	µg/L	3	--	--	0
Bromoform	µg/L	3	--	--	0
Bromomethane	µg/L	3	--	--	0
Carbon disulfide	µg/L	3	--	--	0
Carbon tetrachloride	µg/L	3	--	--	0
Chlorobenzene	µg/L	3	--	--	0
Chloroethane	µg/L	3	--	--	0
Chloroform	µg/L	3	--	--	0
Chloromethane	µg/L	3	--	--	0
cis-1,2-Dichloroethene	µg/L	3	--	--	0
cis-1,3-Dichloropropene	µg/L	3	--	--	0
Dibromochloromethane	µg/L	3	--	--	0
Ethylbenzene	µg/L	3	--	--	0
Methylene chloride	µg/L	3	--	--	0
Styrene	µg/L	3	--	--	0
Tetrachloroethene	µg/L	3	--	--	0
Toluene	µg/L	3	--	--	0
trans-1,2-Dichloroethene	µg/L	3	--	--	0
trans-1,3-Dichloropropene	µg/L	3	--	--	0
Trichloroethene	µg/L	3	--	--	0
Vinyl chloride	µg/L	3	--	--	0
Xylenes (total)	µg/L	3	--	--	0

* Data qualifier included with concentration value

Table 4-73
Exposure Unit 11
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	1	35.8 B	35.8 B	1
Antimony, Dissolved	µg/L	1	--	--	0
Arsenic, Dissolved	µg/L	1	0.19 B	0.19 B	1
Barium, Dissolved	µg/L	1	38.6 E	38.6 E	1
Beryllium, Dissolved	µg/L	1	--	--	0
Boron, Dissolved	µg/L	1	43.6 B	43.6 B	1
Cadmium, Dissolved	µg/L	1	--	--	0
Calcium, Dissolved	µg/L	1	61900	61900	1
Chromium, Dissolved	µg/L	1	21.4	21.4	1
Cobalt, Dissolved	µg/L	1	--	--	0
Copper, Dissolved	µg/L	1	2.1 B	2.1 B	1
Iron, Dissolved	µg/L	1	51.5	51.5	1
Lead, Dissolved	µg/L	1	0.03 B	0.03 B	1
Lithium, Dissolved	µg/L	1	0.16 B	0.16 B	1
Magnesium, Dissolved	µg/L	1	14500	14500	1
Manganese, Dissolved	µg/L	1	41.3	41.3	1
Mercury, Dissolved	µg/L	1	--	--	0
Nickel, Dissolved	µg/L	1	1.8 B	1.8 B	1
Potassium, Dissolved	µg/L	1	3920	3920	1
Selenium, Dissolved	µg/L	1	0.6 B	0.6 B	1
Silver, Dissolved	µg/L	1	0.21 B	0.21 B	1
Sodium, Dissolved	µg/L	1	9210 N	9210 N	1
Thallium, Dissolved	µg/L	1	0.05 B	0.05 B	1
Vanadium, Dissolved	µg/L	1	--	--	0
Zinc, Dissolved	µg/L	1	4.9 B	4.9 B	1
Metals, Total					
Aluminum	µg/L	1	1250	1250	1
Antimony	µg/L	1	--	--	0
Arsenic	µg/L	1	3 B	3 B	1
Barium	µg/L	1	48.3 E	48.3 E	1
Beryllium	µg/L	1	--	--	0
Boron	µg/L	1	56	56	1
Cadmium	µg/L	1	--	--	0
Calcium	µg/L	1	113000	113000	1
Chromium	µg/L	1	58.8	58.8	1
Cobalt	µg/L	1	--	--	0
Copper	µg/L	1	--	--	0
Iron	µg/L	1	1180	1180	1
Lead	µg/L	1	0.45 B	0.45 B	1
Lithium	µg/L	1	9	9	1
Magnesium	µg/L	1	30900	30900	1
Manganese	µg/L	1	105	105	1
Mercury	µg/L	1	--	--	0

* Data qualifier included with concentration value

Table 4-73
Exposure Unit 11
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	1	--	--	0
Potassium	µg/L	1	3080	3080	1
Selenium	µg/L	1	1.8 B	1.8 B	1
Silver	µg/L	1	--	--	0
Sodium	µg/L	1	15900 N	15900 N	1
Thallium	µg/L	1	--	--	0
Vanadium	µg/L	1	3.4 B	3.4 B	1
Zinc	µg/L	1	--	--	0
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	1	--	--	0
2,4,6-Trinitrotoluene	µg/L	1	--	--	0
2,4-Dinitrotoluene	µg/L	1	--	--	0
2,6-Dinitrotoluene	µg/L	1	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	1	--	--	0
2-Nitrotoluene	µg/L	1	--	--	0
3-Dinitrobenzene	µg/L	1	--	--	0
3-Nitrotoluene	µg/L	1	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	1	--	--	0
4-Nitrotoluene	µg/L	1	--	--	0
HMX	µg/L	1	--	--	0
RDX	µg/L	1	--	--	0
Tetryl	µg/L	1	--	--	0
PAHs					
Acenaphthene	µg/L	1	--	--	0
Acenaphthylene	µg/L	1	--	--	0
Anthracene	µg/L	1	--	--	0
Benzo(a)anthracene	µg/L	1	--	--	0
Benzo(a)pyrene	µg/L	1	--	--	0
Benzo(b)fluoranthene	µg/L	1	--	--	0
Benzo(g,h,i)perylene	µg/L	1	--	--	0
Benzo(k)fluoranthene	µg/L	1	--	--	0
Chrysene	µg/L	1	--	--	0
Dibenzo(a,h)anthracene	µg/L	1	--	--	0
Fluoranthene	µg/L	1	--	--	0
Fluorene	µg/L	1	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	1	--	--	0
Naphthalene	µg/L	1	--	--	0
Phenanthrene	µg/L	1	--	--	0
Pyrene	µg/L	1	--	--	0
PCBs					
Aroclor-1016	µg/L	1	--	--	0
Aroclor-1221	µg/L	1	--	--	0
Aroclor-1232	µg/L	1	--	--	0
Aroclor-1242	µg/L	1	--	--	0

* Data qualifier included with concentration value

Table 4-73
Exposure Unit 11
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1248	µg/L	1	--	--	0
Aroclor-1254	µg/L	1	--	--	0
Aroclor-1260	µg/L	1	--	--	0
Pesticides					
4,4'-DDD	µg/L	1	--	--	0
4,4'-DDE	µg/L	1	--	--	0
4,4'-DDT	µg/L	1	--	--	0
Aldrin	µg/L	1	--	--	0
alpha-BHC	µg/L	1	--	--	0
alpha-Chlordane	µg/L	1	--	--	0
beta-BHC	µg/L	1	--	--	0
delta-BHC	µg/L	1	--	--	0
Dieldrin	µg/L	1	--	--	0
Endosulfan I	µg/L	1	--	--	0
Endosulfan II	µg/L	1	--	--	0
Endosulfan sulfate	µg/L	1	--	--	0
Endrin	µg/L	1	--	--	0
Endrin aldehyde	µg/L	1	--	--	0
Endrin ketone	µg/L	1	--	--	0
gamma-BHC (Lindane)	µg/L	1	--	--	0
gamma-Chlordane	µg/L	1	--	--	0
Heptachlor	µg/L	1	--	--	0
Heptachlor epoxide	µg/L	1	--	--	0
Methoxychlor	µg/L	1	--	--	0
Toxaphene	µg/L	1	--	--	0
Radionuclides, Total					
Alpha	pCi/L	1	13.3	13.3	1
Beta	pCi/L	1	9.04	9.04	1
Radium-226	pCi/L	1	--	--	0
Thorium-228	pCi/L	1	--	--	0
Thorium-230	pCi/L	1	--	--	0
Thorium-232	pCi/L	1	--	--	0
Total Uranium	µg/L	1	14.5	14.5	1
Uranium-234	pCi/L	1	1.94	1.94	1
Uranium-235	pCi/L	1	--	--	0
Uranium-238	pCi/L	1	1.95	1.95	1
Semivolatile Organics					
1,2,4-Trichlorobenzene	µg/L	1	--	--	0
1,2-Dichlorobenzene	µg/L	1	--	--	0
1,3-Dichlorobenzene	µg/L	1	--	--	0
1,4-Dichlorobenzene	µg/L	1	--	--	0
2,4,5-Trichlorophenol	µg/L	1	--	--	0
2,4,6-Trichlorophenol	µg/L	1	--	--	0
2,4-Dichlorophenol	µg/L	1	--	--	0

* Data qualifier included with concentration value

Table 4-73
Exposure Unit 11
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
2,4-Dimethylphenol	µg/L	1	--	--	0
2,4-Dinitrophenol	µg/L	1	--	--	0
2-Chloronaphthalene	µg/L	1	--	--	0
2-Chlorophenol	µg/L	1	--	--	0
2-Methyl-4,6-dinitrophenol	µg/L	1	--	--	0
2-Methylnaphthalene	µg/L	1	--	--	0
2-Nitroaniline	µg/L	1	--	--	0
2-Nitrophenol	µg/L	1	--	--	0
3,3'-Dichlorobenzidine	µg/L	1	--	--	0
3-Nitroaniline	µg/L	1	--	--	0
4-Bromophenylphenylether	µg/L	1	--	--	0
4-Chloro-3-methylphenol	µg/L	1	--	--	0
4-Chloroaniline	µg/L	1	--	--	0
4-Chlorophenylphenylether	µg/L	1	--	--	0
4-Nitroaniline	µg/L	1	--	--	0
4-Nitrophenol	µg/L	1	--	--	0
bis(2-Chloroethoxy)methane	µg/L	1	--	--	0
bis(2-Chloroethyl)ether	µg/L	1	--	--	0
bis(2-Chloroisopropyl)ether	µg/L	1	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	1	--	--	0
Butylbenzylphthalate	µg/L	1	--	--	0
Carbazole	µg/L	1	--	--	0
Dibenzofuran	µg/L	1	--	--	0
Diethylphthalate	µg/L	1	--	--	0
Dimethylphthalate	µg/L	1	--	--	0
Di-n-butylphthalate	µg/L	1	--	--	0
Di-n-octylphthalate	µg/L	1	--	--	0
Diphenylamine	µg/L	1	--	--	0
Hexachlorobenzene	µg/L	1	--	--	0
Hexachlorobutadiene	µg/L	1	--	--	0
Hexachlorocyclopentadiene	µg/L	1	--	--	0
Hexachloroethane	µg/L	1	--	--	0
Isophorone	µg/L	1	--	--	0
m,p-Cresols	µg/L	1	--	--	0
N-Nitroso-di-n-propylamine	µg/L	1	--	--	0
o-Cresol	µg/L	1	--	--	0
Pentachlorophenol	µg/L	1	--	--	0
Phenol	µg/L	1	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/L	1	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	1	--	--	0
1,1,2-Trichloroethane	µg/L	1	--	--	0
1,1-Dichloroethane	µg/L	1	--	--	0
1,1-Dichloroethene	µg/L	1	--	--	0

* Data qualifier included with concentration value

Table 4-73
Exposure Unit 11
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
1,2-Dichloroethane	μg/L	1	--	--	0
1,2-Dichloropropane	μg/L	1	--	--	0
2-Butanone	μg/L	1	--	--	0
2-Hexanone	μg/L	1	--	--	0
4-Methyl-2-pentanone	μg/L	1	--	--	0
Acetone	μg/L	1	--	--	0
Benzene	μg/L	1	--	--	0
Bromodichloromethane	μg/L	1	--	--	0
Bromoform	μg/L	1	--	--	0
Bromomethane	μg/L	1	--	--	0
Carbon disulfide	μg/L	1	--	--	0
Carbon tetrachloride	μg/L	1	--	--	0
Chlorobenzene	μg/L	1	--	--	0
Chloroethane	μg/L	1	--	--	0
Chloroform	μg/L	1	--	--	0
Chloromethane	μg/L	1	--	--	0
cis-1,2-Dichloroethene	μg/L	1	--	--	0
cis-1,3-Dichloropropene	μg/L	1	--	--	0
Dibromochloromethane	μg/L	1	--	--	0
Ethylbenzene	μg/L	1	--	--	0
Methylene chloride	μg/L	1	--	--	0
Styrene	μg/L	1	--	--	0
Tetrachloroethene	μg/L	1	--	--	0
Toluene	μg/L	1	--	--	0
trans-1,2-Dichloroethene	μg/L	1	--	--	0
trans-1,3-Dichloropropene	μg/L	1	--	--	0
Trichloroethene	μg/L	1	--	--	0
Vinyl chloride	μg/L	1	--	--	0
Xylenes (total)	μg/L	1	--	--	0

* Data qualifier included with concentration value

Table 4-74
Exposure Unit 12
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nitroaromatics					
2,4-Dinitrotoluene	µg/L	1	--	--	0
2,6-Dinitrotoluene	µg/L	1	--	--	0
Nitrobenzene	µg/L	1	--	--	0
PAHs					
Acenaphthene	µg/L	1	--	--	0
Acenaphthylene	µg/L	1	--	--	0
Anthracene	µg/L	1	--	--	0
Benzo(a)anthracene	µg/L	1	--	--	0
Benzo(a)pyrene	µg/L	1	--	--	0
Benzo(b)fluoranthene	µg/L	1	--	--	0
Benzo(g,h,i)perylene	µg/L	1	--	--	0
Benzo(k)fluoranthene	µg/L	1	--	--	0
Chrysene	µg/L	1	--	--	0
Dibenzo(a,h)anthracene	µg/L	1	--	--	0
Fluoranthene	µg/L	1	--	--	0
Fluorene	µg/L	1	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	1	--	--	0
Naphthalene	µg/L	1	--	--	0
Phenanthrene	µg/L	1	--	--	0
Pyrene	µg/L	1	--	--	0
Radionuclides, Total					
Alpha	pCi/L	1	1.41 J	1.41 J	1
Beta	pCi/L	1	9.36	9.36	1
Radium-226	pCi/L	1	0.4 J	0.4 J	1
Thorium-228	pCi/L	1	0.216 J	0.216 J	1
Thorium-230	pCi/L	1	--	--	0
Thorium-232	pCi/L	1	--	--	0
Total Uranium	µg/L	1	0.815 J	0.815 J	1
Uranium-234	pCi/L	1	0.42 J	0.42 J	1
Uranium-235	pCi/L	1	--	--	0
Uranium-238	pCi/L	1	0.387 J	0.387 J	1
Semivolatile Organics					
1,2,4-Trichlorobenzene	µg/L	1	--	--	0
1,2-Dichlorobenzene	µg/L	1	--	--	0
1,3-Dichlorobenzene	µg/L	1	--	--	0
1,4-Dichlorobenzene	µg/L	1	--	--	0
2,4,5-Trichlorophenol	µg/L	1	--	--	0
2,4,6-Trichlorophenol	µg/L	1	--	--	0
2,4-Dichlorophenol	µg/L	1	--	--	0
2,4-Dimethylphenol	µg/L	1	--	--	0
2,4-Dinitrophenol	µg/L	1	--	--	0
2-Chloronaphthalene	µg/L	1	--	--	0
2-Chlorophenol	µg/L	1	--	--	0

* Data qualifier included with concentration value

Table 4-74
Exposure Unit 12
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
2-Methyl-4,6-dinitrophenol	μg/L	1	--	--	0
2-Methylnaphthalene	μg/L	1	--	--	0
2-Nitroaniline	μg/L	1	--	--	0
2-Nitrophenol	μg/L	1	--	--	0
3,3'-Dichlorobenzidine	μg/L	1	--	--	0
3-Nitroaniline	μg/L	1	--	--	0
4-Bromophenylphenylether	μg/L	1	--	--	0
4-Chloro-3-methylphenol	μg/L	1	--	--	0
4-Chloroaniline	μg/L	1	--	--	0
4-Chlorophenylphenylether	μg/L	1	--	--	0
4-Nitroaniline	μg/L	1	--	--	0
4-Nitrophenol	μg/L	1	--	--	0
bis(2-Chloroethoxy)methane	μg/L	1	--	--	0
bis(2-Chloroethyl)ether	μg/L	1	--	--	0
bis(2-Chloroisopropyl)ether	μg/L	1	--	--	0
bis(2-Ethylhexyl)phthalate	μg/L	1	--	--	0
Butylbenzylphthalate	μg/L	1	--	--	0
Carbazole	μg/L	1	--	--	0
Dibenzofuran	μg/L	1	--	--	0
Diethylphthalate	μg/L	1	--	--	0
Dimethylphthalate	μg/L	1	--	--	0
Di-n-butylphthalate	μg/L	1	--	--	0
Di-n-octylphthalate	μg/L	1	--	--	0
Diphenylamine	μg/L	1	--	--	0
Hexachlorobenzene	μg/L	1	--	--	0
Hexachlorobutadiene	μg/L	1	--	--	0
Hexachlorocyclopentadiene	μg/L	1	--	--	0
Hexachloroethane	μg/L	1	--	--	0
Isophorone	μg/L	1	--	--	0
m,p-Cresols	μg/L	1	--	--	0
N-Nitroso-di-n-propylamine	μg/L	1	--	--	0
o-Cresol	μg/L	1	1.7 J	1.7 J	1
Pentachlorophenol	μg/L	1	--	--	0
Phenol	μg/L	1	--	--	0

* Data qualifier included with concentration value

Table 4-75
Exposure Unit 15
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	13	7.2 B	219	11
Antimony, Dissolved	µg/L	10	2.8 B	2.8 B	2
Arsenic, Dissolved	µg/L	12	0.65 B	3.5 B	8
Barium, Dissolved	µg/L	13	24.7 E	88.9 E	13
Beryllium, Dissolved	µg/L	12	--	--	0
Boron, Dissolved	µg/L	12	77.5	628	12
Cadmium, Dissolved	µg/L	13	--	--	0
Calcium, Dissolved	µg/L	13	58800	98900	13
Chromium, Dissolved	µg/L	13	0.67 B	14.7	7
Cobalt, Dissolved	µg/L	12	0.81 B	0.81 B	1
Copper, Dissolved	µg/L	12	1.7 B	6.3	11
Iron, Dissolved	µg/L	13	13.5 B	1020	13
Lead, Dissolved	µg/L	13	0.08 B	0.63 B	13
Lithium, Dissolved	µg/L	12	1.8 B	28.1	12
Magnesium, Dissolved	µg/L	13	14400	28300	13
Manganese, Dissolved	µg/L	13	11	315	13
Mercury, Dissolved	µg/L	12	0.06 B	0.06 B	1
Nickel, Dissolved	µg/L	12	1.3 B	6.1	8
Potassium, Dissolved	µg/L	13	2610	11100	13
Selenium, Dissolved	µg/L	12	0.74 B	3.2 B	12
Silver, Dissolved	µg/L	12	0.06 B	0.27 B	12
Sodium, Dissolved	µg/L	13	11800 E	45500 N	13
Thallium, Dissolved	µg/L	12	0.03 B	0.26 B	3
Vanadium, Dissolved	µg/L	13	0.63 B	1 B	9
Zinc, Dissolved	µg/L	13	1.2 B	63.8	13
Metals, Total					
Aluminum	µg/L	12	345	21000	12
Antimony	µg/L	12	2.8 B	5.5 B	3
Arsenic	µg/L	12	2.1 B	8.3	12
Barium	µg/L	12	48.4 E	233 E	12
Beryllium	µg/L	12	0.37 B	0.95 B	8
Boron	µg/L	16	81.2	1150	16
Cadmium	µg/L	13	0.37 B	0.54 B	2
Calcium	µg/L	12	76600	157000	12
Chromium	µg/L	12	1.1 B	43	11
Cobalt	µg/L	12	3.9 B	10.7	8
Copper	µg/L	12	11.3	132	9
Iron	µg/L	12	404	29300	12
Lead	µg/L	13	0.68 B	88.9	13
Lithium	µg/L	15	6.3	155	15
Magnesium	µg/L	12	16400	50300	12
Manganese	µg/L	12	14.8	1040	12
Mercury	µg/L	13	0.05 B	0.09 B	5

* Data qualifier included with concentration value

Table 4-75
Exposure Unit 15
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	13	12.1	29.9	9
Potassium	µg/L	12	2630	11900	12
Selenium	µg/L	12	1.1 B	3.1 B	12
Silver	µg/L	12	0.25 B	0.53 B	5
Sodium	µg/L	12	14500 N	50100 N	12
Thallium	µg/L	12	--	--	0
Vanadium	µg/L	12	2.1 B	38.4	12
Zinc	µg/L	13	38.5	765	10
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	7	--	--	0
2,4,6-Trinitrotoluene	µg/L	8	--	--	0
2,4-Dinitrotoluene	µg/L	13	--	--	0
2,6-Dinitrotoluene	µg/L	13	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	8	--	--	0
2-Nitrotoluene	µg/L	8	--	--	0
3-Dinitrobenzene	µg/L	8	--	--	0
3-Nitrotoluene	µg/L	8	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	7	--	--	0
4-Nitrotoluene	µg/L	8	--	--	0
HMX	µg/L	7	--	--	0
Nitrobenzene	µg/L	12	--	--	0
RDX	µg/L	7	--	--	0
Tetryl	µg/L	7	--	--	0
PAHs					
Acenaphthene	µg/L	10	--	--	0
Acenaphthylene	µg/L	10	--	--	0
Anthracene	µg/L	10	--	--	0
Benzo(a)anthracene	µg/L	10	--	--	0
Benzo(a)pyrene	µg/L	10	--	--	0
Benzo(b)fluoranthene	µg/L	10	--	--	0
Benzo(g,h,i)perylene	µg/L	10	--	--	0
Benzo(k)fluoranthene	µg/L	10	--	--	0
Chrysene	µg/L	10	--	--	0
Dibenzo(a,h)anthracene	µg/L	10	--	--	0
Fluoranthene	µg/L	10	--	--	0
Fluorene	µg/L	10	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	10	--	--	0
Naphthalene	µg/L	10	--	--	0
Phenanthrene	µg/L	10	--	--	0
Pyrene	µg/L	10	--	--	0
PCBs					
Aroclor-1016	µg/L	9	--	--	0
Aroclor-1221	µg/L	9	--	--	0
Aroclor-1232	µg/L	9	--	--	0

* Data qualifier included with concentration value

Table 4-75
Exposure Unit 15
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	8	--	--	0
Aroclor-1248	µg/L	8	--	--	0
Aroclor-1254	µg/L	8	--	--	0
Aroclor-1260	µg/L	8	--	--	0
Pesticides					
4,4'-DDD	µg/L	8	--	--	0
4,4'-DDE	µg/L	8	--	--	0
4,4'-DDT	µg/L	8	--	--	0
Aldrin	µg/L	8	--	--	0
alpha-BHC	µg/L	8	--	--	0
alpha-Chlordane	µg/L	8	--	--	0
beta-BHC	µg/L	8	--	--	0
delta-BHC	µg/L	8	--	--	0
Dieldrin	µg/L	9	--	--	0
Endosulfan I	µg/L	9	--	--	0
Endosulfan II	µg/L	9	--	--	0
Endosulfan sulfate	µg/L	9	--	--	0
Endrin	µg/L	9	--	--	0
Endrin aldehyde	µg/L	9	--	--	0
Endrin ketone	µg/L	9	--	--	0
gamma-BHC (Lindane)	µg/L	8	--	--	0
gamma-Chlordane	µg/L	8	--	--	0
Heptachlor	µg/L	8	--	--	0
Heptachlor epoxide	µg/L	8	--	--	0
Methoxychlor	µg/L	8	--	--	0
Toxaphene	µg/L	8	--	--	0
Radionuclides, Total					
Alpha	pCi/L	13	2.26	39.9	13
Beta	pCi/L	13	4.46	65.1	13
Radium-226	pCi/L	13	0.231 J	0.805 J	4
Thorium-228	pCi/L	13	0.198 J	0.347 J	7
Thorium-230	pCi/L	13	0.104 J	0.268 J	5
Thorium-232	pCi/L	13	0.0726 J	0.132 J	5
Total Uranium	µg/L	13	2.88 J	10.6	13
Uranium-234	pCi/L	13	0.669 J	3.98	13
Uranium-235	pCi/L	13	--	--	0
Uranium-238	pCi/L	13	0.76 J	3.12	13
Semivolatile Organics					
1,2,4-Trichlorobenzene	µg/L	10	--	--	0
1,2-Dichlorobenzene	µg/L	10	--	--	0
1,3-Dichlorobenzene	µg/L	10	--	--	0
1,4-Dichlorobenzene	µg/L	10	--	--	0
2,4,5-Trichlorophenol	µg/L	10	--	--	0
2,4,6-Trichlorophenol	µg/L	10	--	--	0

* Data qualifier included with concentration value

Table 4-75
Exposure Unit 15
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
2,4-Dichlorophenol	µg/L	10	--	--	0
2,4-Dimethylphenol	µg/L	10	--	--	0
2,4-Dinitrophenol	µg/L	10	--	--	0
2-Chloronaphthalene	µg/L	10	--	--	0
2-Chlorophenol	µg/L	10	--	--	0
2-Methyl-4,6-dinitrophenol	µg/L	10	--	--	0
2-Methylnaphthalene	µg/L	10	--	--	0
2-Nitroaniline	µg/L	10	--	--	0
2-Nitrophenol	µg/L	10	--	--	0
3,3'-Dichlorobenzidine	µg/L	10	--	--	0
3-Nitroaniline	µg/L	10	--	--	0
4-Bromophenylphenylether	µg/L	10	--	--	0
4-Chloro-3-methylphenol	µg/L	10	--	--	0
4-Chloroaniline	µg/L	10	--	--	0
4-Chlorophenylphenylether	µg/L	10	--	--	0
4-Nitroaniline	µg/L	10	--	--	0
4-Nitrophenol	µg/L	10	--	--	0
bis(2-Chloroethoxy)methane	µg/L	10	--	--	0
bis(2-Chloroethyl)ether	µg/L	10	--	--	0
bis(2-Chloroisopropyl)ether	µg/L	10	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	10	--	--	0
Butylbenzylphthalate	µg/L	10	--	--	0
Carbazole	µg/L	10	--	--	0
Dibenzofuran	µg/L	10	--	--	0
Diethylphthalate	µg/L	10	--	--	0
Dimethylphthalate	µg/L	10	--	--	0
Di-n-butylphthalate	µg/L	10	--	--	0
Di-n-octylphthalate	µg/L	10	--	--	0
Diphenylamine	µg/L	10	--	--	0
Hexachlorobenzene	µg/L	10	--	--	0
Hexachlorobutadiene	µg/L	10	--	--	0
Hexachlorocyclopentadiene	µg/L	10	--	--	0
Hexachloroethane	µg/L	10	--	--	0
Isophorone	µg/L	10	--	--	0
m,p-Cresols	µg/L	10	--	--	0
N-Nitroso-di-n-propylamine	µg/L	10	--	--	0
o-Cresol	µg/L	10	--	--	0
Pentachlorophenol	µg/L	10	--	--	0
Phenol	µg/L	10	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/L	7	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	7	--	--	0
1,1,2-Trichloroethane	µg/L	7	--	--	0
1,1-Dichloroethane	µg/L	8	--	--	0

* Data qualifier included with concentration value

Table 4-75
Exposure Unit 15
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
1,1-Dichloroethene	µg/L	8	--	--	0
1,2-Dichloroethane	µg/L	8	--	--	0
1,2-Dichloropropane	µg/L	8	--	--	0
2-Butanone	µg/L	7	--	--	0
2-Hexanone	µg/L	7	--	--	0
4-Methyl-2-pentanone	µg/L	7	16.6	16.6	1
Acetone	µg/L	7	--	--	0
Benzene	µg/L	8	2.5	2.5	1
Bromodichloromethane	µg/L	8	--	--	0
Bromoform	µg/L	8	--	--	0
Bromomethane	µg/L	8	--	--	0
Carbon disulfide	µg/L	7	--	--	0
Carbon tetrachloride	µg/L	7	--	--	0
Chlorobenzene	µg/L	7	--	--	0
Chloroethane	µg/L	7	--	--	0
Chloroform	µg/L	7	--	--	0
Chloromethane	µg/L	7	--	--	0
cis-1,2-Dichloroethene	µg/L	8	--	--	0
cis-1,3-Dichloropropene	µg/L	8	--	--	0
Dibromochloromethane	µg/L	8	--	--	0
Ethylbenzene	µg/L	7	--	--	0
Methylene chloride	µg/L	7	--	--	0
Styrene	µg/L	7	--	--	0
Tetrachloroethene	µg/L	7	0.25 J	0.51 J	2
Toluene	µg/L	7	--	--	0
trans-1,2-Dichloroethene	µg/L	7	--	--	0
trans-1,3-Dichloropropene	µg/L	7	--	--	0
Trichloroethene	µg/L	7	--	--	0
Vinyl chloride	µg/L	7	--	--	0
Xylenes (total)	µg/L	7	--	--	0

* Data qualifier included with concentration value

Table 4-76
Exposure Unit 17
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	35	7.2 B	233	32
Antimony, Dissolved	µg/L	26	2.8 B	2.8 B	2
Arsenic, Dissolved	µg/L	34	0.19 B	3.5 B	18
Barium, Dissolved	µg/L	35	13.5	88.9 E	35
Beryllium, Dissolved	µg/L	34	--	--	0
Boron, Dissolved	µg/L	34	6.1 B	628	34
Cadmium, Dissolved	µg/L	35	0.26 B	0.5 B	2
Calcium, Dissolved	µg/L	35	18400	140000	35
Chromium, Dissolved	µg/L	35	0.67 B	21.4	9
Cobalt, Dissolved	µg/L	34	0.76 B	0.85 B	3
Copper, Dissolved	µg/L	34	1.4 B	9.1	30
Iron, Dissolved	µg/L	35	13.5 B	1020	35
Lead, Dissolved	µg/L	35	0.03 B	2.8 E	34
Lithium, Dissolved	µg/L	34	0.16 B	28.1	34
Magnesium, Dissolved	µg/L	35	4760	28300	35
Manganese, Dissolved	µg/L	35	2.3 B	398	35
Mercury, Dissolved	µg/L	34	0.06 B	0.06 B	1
Nickel, Dissolved	µg/L	34	1.3 B	6.1	20
Potassium, Dissolved	µg/L	35	648	11100	35
Selenium, Dissolved	µg/L	34	0.39 B	3.2 B	33
Silver, Dissolved	µg/L	34	0.05 B	0.28 B	34
Sodium, Dissolved	µg/L	35	1120 E	45500 N	35
Thallium, Dissolved	µg/L	34	0.03 B	0.75	8
Vanadium, Dissolved	µg/L	35	0.63 B	1.4 B	15
Zinc, Dissolved	µg/L	35	1.2 B	932	35
Metals, Total					
Aluminum	µg/L	35	264	21000	35
Antimony	µg/L	34	2.8 B	5.5 B	10
Arsenic	µg/L	35	1.9 B	8.3	26
Barium	µg/L	35	21.7	358	35
Beryllium	µg/L	34	0.18 B	0.95 B	15
Boron	µg/L	39	20.4 B	1150	39
Cadmium	µg/L	35	0.26 B	5.1	10
Calcium	µg/L	35	18900	167000	35
Chromium	µg/L	35	0.62 B	58.8	34
Cobalt	µg/L	34	0.68 B	14.2	19
Copper	µg/L	35	9.4	132	18
Iron	µg/L	35	285	29300	35
Lead	µg/L	36	0.07 BE	151	35
Lithium	µg/L	38	0.79 BE	155	38
Magnesium	µg/L	35	5090	50300	35
Manganese	µg/L	35	10.4	1040	35
Mercury	µg/L	36	0.05 B	0.94	13

* Data qualifier included with concentration value

Table 4-76
Exposure Unit 17
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	36	8.7	33.5	15
Potassium	µg/L	35	1480	40000	35
Selenium	µg/L	35	0.34 B	10.5 B	33
Silver	µg/L	35	0.25 B	0.53 B	11
Sodium	µg/L	35	1150 E	50100 N	35
Thallium	µg/L	35	0.76	0.82	2
Vanadium	µg/L	35	0.82 B	38.4	35
Zinc	µg/L	36	16.4	1460	27
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	22	0.34	0.34	1
2,4,6-Trinitrotoluene	µg/L	23	--	--	0
2,4-Dinitrotoluene	µg/L	35	--	--	0
2,6-Dinitrotoluene	µg/L	35	0.34	0.34	1
2-Amino-4,6-dinitrotoluene	µg/L	23	0.16	0.28	2
2-Nitrotoluene	µg/L	23	--	--	0
3-Dinitrobenzene	µg/L	23	--	--	0
3-Nitrotoluene	µg/L	23	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	22	--	--	0
4-Nitrotoluene	µg/L	23	--	--	0
HMX	µg/L	22	--	--	0
Nitrobenzene	µg/L	33	--	--	0
RDX	µg/L	22	--	--	0
Tetryl	µg/L	22	--	--	0
PAHs					
Acenaphthene	µg/L	32	--	--	0
Acenaphthylene	µg/L	32	--	--	0
Anthracene	µg/L	32	0.14 J	0.14 J	1
Benzo(a)anthracene	µg/L	32	0.54 J	0.54 J	1
Benzo(a)pyrene	µg/L	32	--	--	0
Benzo(b)fluoranthene	µg/L	32	--	--	0
Benzo(g,h,i)perylene	µg/L	32	--	--	0
Benzo(k)fluoranthene	µg/L	32	--	--	0
Chrysene	µg/L	32	0.51 J	0.51 J	1
Dibenzo(a,h)anthracene	µg/L	32	--	--	0
Fluoranthene	µg/L	32	--	--	0
Fluorene	µg/L	32	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	32	--	--	0
Naphthalene	µg/L	32	--	--	0
Phenanthrene	µg/L	32	--	--	0
Pyrene	µg/L	32	0.59 J	0.59 J	1
PCBs					
Aroclor-1016	µg/L	27	--	--	0
Aroclor-1221	µg/L	27	--	--	0
Aroclor-1232	µg/L	27	--	--	0

* Data qualifier included with concentration value

Table 4-76
Exposure Unit 17
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	26	--	--	0
Aroclor-1248	µg/L	26	--	--	0
Aroclor-1254	µg/L	26	--	--	0
Aroclor-1260	µg/L	26	0.086 J	0.086 J	1
Pesticides					
4,4'-DDD	µg/L	26	--	--	0
4,4'-DDE	µg/L	26	--	--	0
4,4'-DDT	µg/L	26	--	--	0
Aldrin	µg/L	26	--	--	0
alpha-BHC	µg/L	26	--	--	0
alpha-Chlordane	µg/L	26	--	--	0
beta-BHC	µg/L	26	--	--	0
delta-BHC	µg/L	26	--	--	0
Dieldrin	µg/L	27	--	--	0
Endosulfan I	µg/L	27	--	--	0
Endosulfan II	µg/L	27	--	--	0
Endosulfan sulfate	µg/L	27	--	--	0
Endrin	µg/L	27	--	--	0
Endrin aldehyde	µg/L	27	--	--	0
Endrin ketone	µg/L	27	--	--	0
gamma-BHC (Lindane)	µg/L	26	--	--	0
gamma-Chlordane	µg/L	26	--	--	0
Heptachlor	µg/L	26	--	--	0
Heptachlor epoxide	µg/L	26	--	--	0
Methoxychlor	µg/L	26	--	--	0
Toxaphene	µg/L	26	--	--	0
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	10	--	--	0
Americium-241, Dissolved	pCi/L	10	16.9	16.9	1
Cesium-137, Dissolved	pCi/L	10	--	--	0
Cobalt-60, Dissolved	pCi/L	10	--	--	0
Protactinium-231, Dissolved	pCi/L	10	--	--	0
Radium-226, Dissolved	pCi/L	10	0.404	0.752	6
Radium-228, Dissolved	pCi/L	10	--	--	0
Thorium-228, Dissolved	pCi/L	10	0.441	0.441	1
Thorium-230, Dissolved	pCi/L	10	0.063 J	0.263	6
Thorium-232, Dissolved	pCi/L	10	--	--	0
Uranium-234, Dissolved	pCi/L	10	4.77	19 J	10
Uranium-235, Dissolved	pCi/L	10	0.409	0.978 J	6
Uranium-238, Dissolved	pCi/L	10	4.96	18.2 J	10
Radionuclides, Total					
Actinium-227	pCi/L	12	--	--	0
Alpha	pCi/L	51	1.41 J	53.7 J	51
Americium-241	pCi/L	12	--	--	0

* Data qualifier included with concentration value

Table 4-76
Exposure Unit 17
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Beta	pCi/L	51	3.23	65.1	51
Cesium-137	pCi/L	12	--	--	0
Cobalt-60	pCi/L	12	--	--	0
Protactinium-231	pCi/L	12	--	--	0
Radium-226	pCi/L	50	0.231 J	3.66	23
Radium-228	pCi/L	12	--	--	0
Thorium-228	pCi/L	50	0.0823	17.7	16
Thorium-230	pCi/L	50	0.0694 J	24	19
Thorium-232	pCi/L	50	0.0726 J	12.5	11
Total Uranium	μg/L	50	0.475 J	48.3	49
Uranium-234	pCi/L	50	0.288 J	17.7 J	47
Uranium-235	pCi/L	50	0.202	0.964	10
Uranium-238	pCi/L	50	0.234 J	16.5 J	46
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/L	32	--	--	0
1,2-Dichlorobenzene	μg/L	32	--	--	0
1,3-Dichlorobenzene	μg/L	32	--	--	0
1,4-Dichlorobenzene	μg/L	32	--	--	0
2,4,5-Trichlorophenol	μg/L	32	--	--	0
2,4,6-Trichlorophenol	μg/L	32	--	--	0
2,4-Dichlorophenol	μg/L	32	--	--	0
2,4-Dimethylphenol	μg/L	32	--	--	0
2,4-Dinitrophenol	μg/L	32	--	--	0
2-Chloronaphthalene	μg/L	32	--	--	0
2-Chlorophenol	μg/L	32	--	--	0
2-Methyl-4,6-dinitrophenol	μg/L	32	--	--	0
2-Methylnaphthalene	μg/L	32	--	--	0
2-Nitroaniline	μg/L	32	--	--	0
2-Nitrophenol	μg/L	32	--	--	0
3,3'-Dichlorobenzidine	μg/L	32	--	--	0
3-Nitroaniline	μg/L	32	--	--	0
4-Bromophenylphenylether	μg/L	32	--	--	0
4-Chloro-3-methylphenol	μg/L	32	--	--	0
4-Chloroaniline	μg/L	32	--	--	0
4-Chlorophenylphenylether	μg/L	32	--	--	0
4-Nitroaniline	μg/L	32	--	--	0
4-Nitrophenol	μg/L	32	--	--	0
bis(2-Chloroethoxy)methane	μg/L	32	--	--	0
bis(2-Chloroethyl)ether	μg/L	32	--	--	0
bis(2-Chloroisopropyl)ether	μg/L	32	--	--	0
bis(2-Ethylhexyl)phthalate	μg/L	32	--	--	0
Butylbenzylphthalate	μg/L	32	--	--	0
Carbazole	μg/L	32	--	--	0
Dibenzofuran	μg/L	32	--	--	0

* Data qualifier included with concentration value

Table 4-76
Exposure Unit 17
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Diethylphthalate	µg/L	32	--	--	0
Dimethylphthalate	µg/L	32	--	--	0
Di-n-butylphthalate	µg/L	32	--	--	0
Di-n-octylphthalate	µg/L	32	--	--	0
Diphenylamine	µg/L	32	--	--	0
Hexachlorobenzene	µg/L	32	--	--	0
Hexachlorobutadiene	µg/L	32	--	--	0
Hexachlorocyclopentadiene	µg/L	32	--	--	0
Hexachloroethane	µg/L	32	--	--	0
Isophorone	µg/L	32	--	--	0
m,p-Cresols	µg/L	32	--	--	0
N-Nitroso-di-n-propylamine	µg/L	32	--	--	0
o-Cresol	µg/L	32	1.7 J	1.7 J	1
Pentachlorophenol	µg/L	32	--	--	0
Phenol	µg/L	32	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/L	24	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	24	--	--	0
1,1,2-Trichloroethane	µg/L	24	--	--	0
1,1-Dichloroethane	µg/L	25	--	--	0
1,1-Dichloroethene	µg/L	25	--	--	0
1,2-Dichloroethane	µg/L	25	--	--	0
1,2-Dichloropropane	µg/L	25	--	--	0
2-Butanone	µg/L	24	--	--	0
2-Hexanone	µg/L	24	--	--	0
4-Methyl-2-pentanone	µg/L	24	16.6	16.6	1
Acetone	µg/L	24	--	--	0
Benzene	µg/L	25	2.5	2.5	1
Bromodichloromethane	µg/L	25	--	--	0
Bromoform	µg/L	25	--	--	0
Bromomethane	µg/L	25	--	--	0
Carbon disulfide	µg/L	24	--	--	0
Carbon tetrachloride	µg/L	24	--	--	0
Chlorobenzene	µg/L	24	--	--	0
Chloroethane	µg/L	24	--	--	0
Chloroform	µg/L	24	--	--	0
Chloromethane	µg/L	24	--	--	0
cis-1,2-Dichloroethene	µg/L	25	--	--	0
cis-1,3-Dichloropropene	µg/L	25	--	--	0
Dibromochloromethane	µg/L	25	--	--	0
Ethylbenzene	µg/L	24	--	--	0
Methylene chloride	µg/L	24	--	--	0
Styrene	µg/L	24	--	--	0
Tetrachloroethene	µg/L	24	0.25 J	0.51 J	2

* Data qualifier included with concentration value

Table 4-76
Exposure Unit 17
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Toluene	μg/L	24	--	--	0
trans-1,2-Dichloroethene	μg/L	24	--	--	0
trans-1,3-Dichloropropene	μg/L	24	--	--	0
Trichloroethene	μg/L	24	--	--	0
Vinyl chloride	μg/L	24	--	--	0
Xylenes (total)	μg/L	24	0.14 J	0.14 J	1

* Data qualifier included with concentration value

Table 4-77
Exposure Unit 1
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Aluminum, Dissolved	μg/L	31.2	SW712-318	42.5 BN
			SW713-323	34.8 BN
			SW714-325	86.6
Nickel, Dissolved	μg/L	1.81	SW713-323	1.9 B
Silver, Dissolved	μg/L	0.011	SW712-318	0.1 B
			SW713-323	0.1 B
			SW714-325	0.06 B
Thallium, Dissolved	μg/L	0.24	SW714-325	0.45 B
Metals, Total				
Cobalt	μg/L	1.08	SW714-325	1.2 B
Mercury	μg/L	--	SW714-325	0.06 B
Thallium	μg/L	0.026	SW714-325	0.76
Radionuclides, Total				
Radium-226	pCi/L	0.487	SW712-318	0.935 J
			SW714-325	0.954 J

* Data qualifier included with concentration value

Table 4-78
Exposure Unit 4
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Total				
Aluminum	μg/L	5030	SW740-390	11100
Antimony	μg/L	2.33	SW740-390	4.4 B
Barium	μg/L	117	SW740-390	358
Beryllium	μg/L	0.253	SW740-390	0.53 B
Boron	μg/L	244	SW740-390	627
Cadmium	μg/L	--	SW740-390	5.1
Calcium	μg/L	141000	SW740-390	157000
Chromium	μg/L	7.52	SW740-390	19.6
Cobalt	μg/L	1.08	SW740-390	14.2
Copper	μg/L	15	SW740-390	118
Iron	μg/L	4740	SW740-390	22000
Lead	μg/L	11.1	SW740-390	151
Lithium	μg/L	13.2	SW740-390	26.8
Mercury	μg/L	--	SW740-390	0.94
Nickel	μg/L	7.74	SW740-390	33.5
Potassium	μg/L	9540	SW740-390	40000
Selenium	μg/L	4.24	SW740-390	10.5 B
Silver	μg/L	0.03	SW740-390	0.29 B
Vanadium	μg/L	8.52	SW740-390	20
Zinc	μg/L	70.5	SW740-390	1200

* Data qualifier included with concentration value

Table 4-79
Exposure Unit 5
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Aluminum, Dissolved	μg/L	31.2	SW726-354	233
			SW728-358	134
			SW729-363	59
			SW735-376	88.8
			SW736-378	140
			SW738-382	119
			SW739-384	134
Copper, Dissolved	μg/L	8.39	SW728-358	9.1
			SW729-363	8.7
Nickel, Dissolved	μg/L	1.81	SW726-354	2.7 B
			SW728-358	2.5 B
			SW729-363	3.4 B
Silver, Dissolved	μg/L	0.011	SW726-354	0.26 B
			SW728-358	0.23 B
			SW729-363	0.23 B
			SW735-376	0.05 B
			SW736-378	0.23 B
			SW738-382	0.05 B
			SW739-384	0.05 B
Thallium, Dissolved	μg/L	0.24	SW726-354	0.75
Metals, Total				
Aluminum	μg/L	5030	SW726-354	7710
			SW728-358	8150
			SW729-363	9160
Antimony	μg/L	2.33	SW726-354	3.3 B
			SW728-358	2.8 B
			SW736-378	3.6 B
Beryllium	μg/L	0.253	SW726-354	0.41 B
			SW728-358	0.41 B
			SW729-363	0.45 B
Cadmium	μg/L	--	SW726-354	0.36 B
			SW735-376	0.36 B
			SW736-378	0.26 B
Chromium	μg/L	7.52	SW726-354	9.8
			SW728-358	10.4
			SW729-363	11.5
Cobalt	μg/L	1.08	SW726-354	3.3 B
			SW728-358	3.5 B
			SW729-363	4 B
Copper	μg/L	15	SW726-354	23.5
			SW728-358	29.1
			SW729-363	28.2

* Data qualifier included with concentration value

Table 4-79
Exposure Unit 5
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Iron	μg/L	4740	SW726-354	8890
			SW728-358	9860
			SW729-363	11600
Lithium	μg/L	13.2	SW726-354	13.3
			SW728-358	13.7
			SW729-363	15.6
Mercury	μg/L	--	SW735-376	0.06 B
			SW739-384	0.08 B
Nickel	μg/L	7.74	SW726-354	11.1
			SW728-358	11.4
			SW729-363	13.2
Silver	μg/L	0.03	SW726-354	0.3 B
			SW728-358	0.3 B
			SW729-363	0.3 B
Thallium	μg/L	0.026	SW726-354	0.82
Vanadium	μg/L	8.52	SW726-354	14.5
			SW728-358	15.2
			SW729-363	17.1
PAHs				
Anthracene	μg/L	--	SW730-365	0.14 J
Benzo(a)anthracene	μg/L	0.108	SW730-365	0.54 J
Chrysene	μg/L	0.151	SW730-365	0.51 J
Pyrene	μg/L	0.302	SW730-365	0.59 J
Radionuclides, Total				
Alpha	pCi/L	12.2	SW728-358	13.1
Beta	pCi/L	12.3	SW726-354	16.6
			SW727-356	19
			SW728-358	23.5
			SW729-363	16.4
			SW730-365	14
Thorium-232	pCi/L	--	SW730-365	0.0835 J
Volatile Organics				
Xylenes (total)	μg/L	--	SW737-380	0.14 J

* Data qualifier included with concentration value

Table 4-80
Exposure Unit 6
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Aluminum, Dissolved	μg/L	31.2	SW731-367	91.7
			SW732-369	40.9 B
			SW733-371	73.6
			SW734-374	84.9
Copper, Dissolved	μg/L	8.39	SW731-367	8.8
Lead, Dissolved	μg/L	0.919	SW733-371	2.5 E
			SW734-374	2.8 E
Silver, Dissolved	μg/L	0.011	SW731-367	0.11 B
			SW732-369	0.05 B
			SW733-371	0.05 B
			SW734-374	0.07 B
Zinc, Dissolved	μg/L	54.5	SW734-374	63.4
Metals, Total				
Aluminum	μg/L	5030	SW731-367	6420
Cadmium	μg/L	--	SW734-374	0.31 B
Chromium	μg/L	7.52	SW731-367	8.9
Cobalt	μg/L	1.08	SW731-367	3.3 B
Copper	μg/L	15	SW731-367	29.5
Iron	μg/L	4740	SW731-367	9180
Mercury	μg/L	--	SW732-369	0.06 B
			SW733-371	0.07 B
			SW734-374	0.06 B
Nickel	μg/L	7.74	SW731-367	10.8
Vanadium	μg/L	8.52	SW731-367	12.7
Zinc	μg/L	70.5	SW734-374	111
Nitroaromatics				
1,3,5-Trinitrobenzene	μg/L	0.0249	SW733-371	0.34
2-Amino-4,6-dinitrotoluene	μg/L	0.0779	SW734-374	0.16
PCBs				
Aroclor-1260	μg/L	--	SW732-369	0.086 J
Radionuclides, Total				
Beta	pCi/L	12.3	SW731-367	18.8
Radium-226	pCi/L	0.487	SW733-371	1.47
			SW734-374	1.09
Thorium-232	pCi/L	--	SW731-367	0.0772 J

* Data qualifier included with concentration value

Table 4-81
Exposure Unit 7
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Silver, Dissolved	μg/L	0.011	SW711-316	0.23 B
Radionuclides, Total				
Alpha	pCi/L	12.2	SW744-681	15.6
Beta	pCi/L	12.3	SW744-681	17.5
Radium-226	pCi/L	0.487	SW711-316	0.729 J
			SW744-681	0.725
Thorium-228	pCi/L	0.41	SW744-681	17.7
Thorium-230	pCi/L	0.606	SW744-681	24
Thorium-232	pCi/L	--	SW744-681	12.5
Uranium-234	pCi/L	5.78	SW744-681	6.81
Uranium-238	pCi/L	4.81	SW744-681	6.32

* Data qualifier included with concentration value

Table 4-82
Exposure Unit 8
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Aluminum, Dissolved	μg/L	31.2	SW723-348	58.1
Boron, Dissolved	μg/L	239	SW723-348	389
Copper, Dissolved	μg/L	8.39	SW725-352	8.4
Nickel, Dissolved	μg/L	1.81	SW723-348	2.8 B
			SW724-350	3 B
			SW725-352	4 B
Silver, Dissolved	μg/L	0.011	SW723-348	0.22 B
			SW724-350	0.24 B
			SW725-352	0.28 B
Vanadium, Dissolved	μg/L	1.26	SW725-352	1.4 B
Zinc, Dissolved	μg/L	54.5	SW723-348	292
Metals, Total				
Antimony	μg/L	2.33	SW723-348	3.7 B
			SW724-350	3.2 B
			SW725-352	3.9 B
Cadmium	μg/L	--	SW723-348	0.71 B
			SW724-350	0.34 B
Cobalt	μg/L	1.08	SW725-352	1.8 B
Copper	μg/L	15	SW725-352	19.9
Iron	μg/L	4740	SW725-352	5540
Magnesium	μg/L	30200	SW724-350	32200
Nickel	μg/L	7.74	SW725-352	8.7
Silver	μg/L	0.03	SW724-350	0.26 B
			SW725-352	0.32 B
Vanadium	μg/L	8.52	SW725-352	9.4
Zinc	μg/L	70.5	SW723-348	218
			SW724-350	99.3
			SW725-352	108
Nitroaromatics				
2,6-Dinitrotoluene	μg/L	0.0501	SW723-348	0.34
2-Amino-4,6-dinitrotoluene	μg/L	0.0779	SW723-348	0.28

* Data qualifier included with concentration value

Table 4-83
Exposure Unit 10
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Lead, Dissolved	μg/L	0.919	SW701-292	1.4 BE
Silver, Dissolved	μg/L	0.011	SW701-292	0.1 B
			SW702-294	0.06 B
			SW703-296	0.05 B
Zinc, Dissolved	μg/L	54.5	SW701-292	932
			SW703-296	114
Metals, Total				
Cadmium	μg/L	--	SW701-292	0.26 B
Calcium	μg/L	141000	SW701-292	167000
Magnesium	μg/L	30200	SW701-292	34100
Mercury	μg/L	--	SW701-292	0.05 B
Zinc	μg/L	70.5	SW701-292	1460
			SW703-296	121
Radionuclides, Total				
Beta	pCi/L	12.3	SW741-678	12.4
Radium-226	pCi/L	0.487	SW701-292	3.66

* Data qualifier included with concentration value

Table 4-84
Exposure Unit 11
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Aluminum, Dissolved	μg/L	31.2	SW704-301	35.8 B
Chromium, Dissolved	μg/L	6.69	SW704-301	21.4
Silver, Dissolved	μg/L	0.011	SW704-301	0.21 B
Metals, Total				
Chromium	μg/L	7.52	SW704-301	58.8
Magnesium	μg/L	30200	SW704-301	30900
Radionuclides, Total				
Alpha	pCi/L	12.2	SW704-301	13.3
Total Uranium	μg/L	12.5	SW704-301	14.5

* Data qualifier included with concentration value

Table 4-85
Exposure Unit 12
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Semivolatile Organics				
o-Cresol	μg/L	--	SW719-339	1.7 J

* Data qualifier included with concentration value

Table 4-86
Exposure Unit 15
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Aluminum, Dissolved	μg/L	31.2	SW705-303	77.7
			SW706-305	105
			SW708-309	89.8
			SW709-312	107
			SW710-314	97.6
			SW715-327	36.9 B
			SW716-329	31.9 B
			SW718-334	219
Antimony, Dissolved	μg/L	0.648	SW716-329	2.8 B
			SW717-332	2.8 B
Boron, Dissolved	μg/L	239	SW716-329	628
Chromium, Dissolved	μg/L	6.69	SW705-303	7.8
			SW706-305	7
			SW707-307	14.5
			SW709-312	14.7
			SW710-314	9.7
Lithium, Dissolved	μg/L	13.4	SW716-329	15.4
			SW717-332	28.1
Mercury, Dissolved	μg/L	--	SW710-314	0.06 B
Nickel, Dissolved	μg/L	1.81	SW705-303	2.2 B
			SW716-329	2.3 B
			SW717-332	6.1
			SW720-342	2.3 B
Potassium, Dissolved	μg/L	7700	SW717-332	11100
Selenium, Dissolved	μg/L	2.41	SW717-332	3.2 B
Silver, Dissolved	μg/L	0.011	SW705-303	0.23 B
			SW706-305	0.09 B
			SW707-307	0.08 B
			SW708-309	0.06 B
			SW709-312	0.26 B
			SW710-314	0.1 B
			SW715-327	0.23 B
			SW716-329	0.27 B
			SW717-332	0.22 B
			SW720-342	0.22 B
			SW721-344	0.21 B
			SW722-346	0.23 B
Thallium, Dissolved	μg/L	0.24	SW705-303	0.26 B
Zinc, Dissolved	μg/L	54.5	SW717-332	63.8
Metals, Total				

* Data qualifier included with concentration value

Table 4-86
Exposure Unit 15
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aluminum	μg/L	5030	SW705-303	21000
			SW706-305	10800
			SW707-307	11800
			SW708-309	10700
			SW709-312	10000
			SW710-314	8420
			SW716-329	9110
			SW717-332	14100
Antimony	μg/L	2.33	SW709-312	3.6 B
			SW717-332	5.5 B
			SW721-344	2.8 B
Arsenic	μg/L	6.33	SW705-303	7
			SW717-332	8.3
Barium	μg/L	117	SW705-303	162 E
			SW717-332	233 E
			SW722-346	119 E
Beryllium	μg/L	0.253	SW705-303	0.95 B
			SW706-305	0.62 B
			SW707-307	0.57 B
			SW708-309	0.47 B
			SW709-312	0.47 B
			SW710-314	0.37 B
			SW716-329	0.38 B
			SW717-332	0.6 B
Boron	μg/L	244	C9-4-SW-1	484
			C9-4-SW-2	814
			C9-4-SW-3	1150
			SW707-307	351
			SW716-329	587
Cadmium	μg/L	--	SW715-327	0.37 B
			SW717-332	0.54 B
Calcium	μg/L	141000	SW717-332	157000
Chromium	μg/L	7.52	SW705-303	43
			SW706-305	22
			SW707-307	24.3
			SW708-309	21.2
			SW709-312	28.7
			SW710-314	22.3
			SW716-329	11.6
			SW717-332	26

* Data qualifier included with concentration value

Table 4-86
Exposure Unit 15
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cobalt	μg/L	1.08	SW705-303	10.7
			SW706-305	6
			SW707-307	6.7
			SW708-309	5.8
			SW709-312	4.8 B
			SW710-314	4.8 B
			SW716-329	3.9 B
			SW717-332	10
Copper	μg/L	15	SW705-303	54.7
			SW706-305	22.7
			SW707-307	27.7
			SW708-309	22.7
			SW709-312	21.5
			SW710-314	19.3
			SW716-329	21.8
			SW717-332	132
Iron	μg/L	4740	SW705-303	29300
			SW706-305	14300
			SW707-307	16300
			SW708-309	14200
			SW709-312	12900
			SW710-314	11200
			SW716-329	11700
			SW717-332	25600
Lead	μg/L	11.1	SW705-303	37.2
			SW706-305	11.5 E
			SW707-307	16.5 E
			SW708-309	11.7 E
			SW716-329	12.7
			SW717-332	88.9
			SW718-334	11.2 E
Lithium	μg/L	13.2	C9-4-SW-1	32.3
			C9-4-SW-2	88.9
			C9-4-SW-3	155
			SW705-303	41.7
			SW706-305	18.8 E
			SW707-307	20.7 E
			SW708-309	18.1 E
			SW709-312	23
			SW710-314	16.1 E
			SW716-329	23.8
			SW717-332	40.1

* Data qualifier included with concentration value

Table 4-86
Exposure Unit 15
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Magnesium	μg/L	30200	SW715-327	35100
			SW716-329	32900
			SW717-332	50300
Mercury	μg/L	--	SW706-305	0.05 B
			SW707-307	0.06 B
			SW708-309	0.05 B
			SW710-314	0.08 B
			SW718-334	0.09 B
Nickel	μg/L	7.74	SW705-303	29.9
			SW706-305	15.5
			SW707-307	17.7
			SW708-309	16.1
			SW709-312	13.5
			SW710-314	12.6
			SW716-329	12.1
			SW717-332	27.9
			SW718-334	16.4
Potassium	μg/L	9540	SW717-332	11900
Silver	μg/L	0.03	SW705-303	0.37 B
			SW709-312	0.26 B
			SW716-329	0.28 B
			SW717-332	0.53 B
			SW721-344	0.25 B
Vanadium	μg/L	8.52	SW705-303	38.4
			SW706-305	20.2
			SW707-307	22
			SW708-309	20
			SW709-312	18.4
			SW710-314	16.1
			SW716-329	16.8
			SW717-332	27.2
Zinc	μg/L	70.5	SW705-303	197
			SW707-307	93.9
			SW716-329	110
			SW717-332	765
			SW718-334	72
Radionuclides, Total				
Alpha	pCi/L	12.2	SW705-303	13.2
			SW706-305	14.7
			SW707-307	17.5
			SW708-309	16.1
			SW710-314	14.8
			SW716-329	39.9
			SW718-334	12.7

* Data qualifier included with concentration value

Table 4-86
Exposure Unit 15
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/L	12.3	SW705-303	28.8
			SW706-305	21.3
			SW707-307	19.4
			SW708-309	20.9
			SW709-312	17.3
			SW710-314	17.8
			SW716-329	65.1
			SW717-332	15.4
			SW718-334	19.4
Radium-226	pCi/L	0.487	SW705-303	0.579 J
			SW707-307	0.805 J
Thorium-232	pCi/L	--	SW705-303	0.0726 J
			SW707-307	0.132 J
			SW708-309	0.0742 J
			SW709-312	0.102 J
			SW716-329	0.112 J
Volatile Organics				
4-Methyl-2-pentanone	μg/L	--	SW717-332	16.6
Benzene	μg/L	--	SW717-332	2.5

* Data qualifier included with concentration value

Table 4-87
Exposure Unit 17
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Aluminum, Dissolved	μg/L	31.2	SW704-301	35.8 B
			SW705-303	77.7
			SW706-305	105
			SW708-309	89.8
			SW709-312	107
			SW710-314	97.6
			SW712-318	42.5 BN
			SW713-323	34.8 BN
			SW714-325	86.6
			SW715-327	36.9 B
			SW716-329	31.9 B
			SW718-334	219
			SW723-348	58.1
			SW726-354	233
			SW728-358	134
			SW729-363	59
			SW731-367	91.7
			SW732-369	40.9 B
			SW733-371	73.6
			SW734-374	84.9
			SW735-376	88.8
			SW736-378	140
			SW738-382	119
			SW739-384	134
Antimony, Dissolved	μg/L	0.648	SW716-329	2.8 B
			SW717-332	2.8 B
Boron, Dissolved	μg/L	239	SW716-329	628
			SW723-348	389
Chromium, Dissolved	μg/L	6.69	SW704-301	21.4
			SW705-303	7.8
			SW706-305	7
			SW707-307	14.5
			SW709-312	14.7
			SW710-314	9.7
Lead, Dissolved	μg/L	0.919	SW701-292	1.4 BE
			SW733-371	2.5 E
			SW734-374	2.8 E
Lithium, Dissolved	μg/L	13.4	SW716-329	15.4
			SW717-332	28.1

* Data qualifier included with concentration value

Table 4-87
Exposure Unit 17
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Nickel, Dissolved	μg/L	1.81	SW705-303	2.2 B
			SW713-323	1.9 B
			SW716-329	2.3 B
			SW717-332	6.1
			SW720-342	2.3 B
			SW723-348	2.8 B
			SW724-350	3 B
			SW725-352	4 B
			SW726-354	2.7 B
			SW728-358	2.5 B
			SW729-363	3.4 B
Potassium, Dissolved	μg/L	7700	SW717-332	11100
Selenium, Dissolved	μg/L	2.41	SW717-332	3.2 B

* Data qualifier included with concentration value

Table 4-87
Exposure Unit 17
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Silver, Dissolved	μg/L	0.011	SW701-292	0.1 B
			SW702-294	0.06 B
			SW703-296	0.05 B
			SW704-301	0.21 B
			SW705-303	0.23 B
			SW706-305	0.09 B
			SW707-307	0.08 B
			SW708-309	0.06 B
			SW709-312	0.26 B
			SW710-314	0.1 B
			SW711-316	0.23 B
			SW712-318	0.1 B
			SW713-323	0.1 B
			SW714-325	0.06 B
			SW715-327	0.23 B
			SW716-329	0.27 B
			SW717-332	0.22 B
			SW720-342	0.22 B
			SW721-344	0.21 B
			SW722-346	0.23 B
			SW723-348	0.22 B
			SW724-350	0.24 B
			SW725-352	0.28 B
			SW726-354	0.26 B
			SW728-358	0.23 B
			SW729-363	0.23 B
			SW731-367	0.11 B
			SW732-369	0.05 B
			SW733-371	0.05 B
			SW734-374	0.07 B
			SW735-376	0.05 B
			SW736-378	0.23 B
			SW738-382	0.05 B
			SW739-384	0.05 B
Thallium, Dissolved	μg/L	0.24	SW705-303	0.26 B
			SW714-325	0.45 B
			SW726-354	0.75
Vanadium, Dissolved	μg/L	1.26	SW725-352	1.4 B
Zinc, Dissolved	μg/L	54.5	SW701-292	932
			SW703-296	114
			SW717-332	63.8
			SW723-348	292
			SW734-374	63.4
Metals, Total				

* Data qualifier included with concentration value

Table 4-87
Exposure Unit 17
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aluminum	μg/L	5030	SW705-303	21000
			SW706-305	10800
			SW707-307	11800
			SW708-309	10700
			SW709-312	10000
			SW710-314	8420
			SW716-329	9110
			SW717-332	14100
			SW726-354	7710
			SW728-358	8150
			SW729-363	9160
			SW731-367	6420
			SW740-390	11100
Antimony	μg/L	2.33	SW709-312	3.6 B
			SW717-332	5.5 B
			SW721-344	2.8 B
			SW723-348	3.7 B
			SW724-350	3.2 B
			SW725-352	3.9 B
			SW726-354	3.3 B
			SW728-358	2.8 B
			SW736-378	3.6 B
			SW740-390	4.4 B
Arsenic	μg/L	6.33	SW705-303	7
			SW717-332	8.3
Barium	μg/L	117	SW705-303	162 E
			SW717-332	233 E
			SW722-346	119 E
			SW740-390	358
Beryllium	μg/L	0.253	SW705-303	0.95 B
			SW706-305	0.62 B
			SW707-307	0.57 B
			SW708-309	0.47 B
			SW709-312	0.47 B
			SW710-314	0.37 B
			SW716-329	0.38 B
			SW717-332	0.6 B
			SW726-354	0.41 B
			SW728-358	0.41 B
			SW729-363	0.45 B
			SW740-390	0.53 B

* Data qualifier included with concentration value

Table 4-87
Exposure Unit 17
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Boron	μg/L	244	C9-4-SW-1	484
			C9-4-SW-2	814
			C9-4-SW-3	1150
			SW707-307	351
			SW716-329	587
			SW740-390	627
Cadmium	μg/L	--	SW701-292	0.26 B
			SW715-327	0.37 B
			SW717-332	0.54 B
			SW723-348	0.71 B
			SW724-350	0.34 B
			SW726-354	0.36 B
			SW734-374	0.31 B
			SW735-376	0.36 B
			SW736-378	0.26 B
			SW740-390	5.1
Calcium	μg/L	141000	SW701-292	167000
			SW717-332	157000
			SW740-390	157000
Chromium	μg/L	7.52	SW704-301	58.8
			SW705-303	43
			SW706-305	22
			SW707-307	24.3
			SW708-309	21.2
			SW709-312	28.7
			SW710-314	22.3
			SW716-329	11.6
			SW717-332	26
			SW726-354	9.8
			SW728-358	10.4
			SW729-363	11.5
			SW731-367	8.9
			SW740-390	19.6

* Data qualifier included with concentration value

Table 4-87
Exposure Unit 17
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cobalt	μg/L	1.08	SW705-303	10.7
			SW706-305	6
			SW707-307	6.7
			SW708-309	5.8
			SW709-312	4.8 B
			SW710-314	4.8 B
			SW714-325	1.2 B
			SW716-329	3.9 B
			SW717-332	10
			SW725-352	1.8 B
			SW726-354	3.3 B
			SW728-358	3.5 B
			SW729-363	4 B
			SW731-367	3.3 B
			SW740-390	14.2
Copper	μg/L	15	SW705-303	54.7
			SW706-305	22.7
			SW707-307	27.7
			SW708-309	22.7
			SW709-312	21.5
			SW710-314	19.3
			SW716-329	21.8
			SW717-332	132
			SW725-352	19.9
			SW726-354	23.5
			SW728-358	29.1
			SW729-363	28.2
			SW731-367	29.5
			SW740-390	118
Iron	μg/L	4740	SW705-303	29300
			SW706-305	14300
			SW707-307	16300
			SW708-309	14200
			SW709-312	12900
			SW710-314	11200
			SW716-329	11700
			SW717-332	25600
			SW725-352	5540
			SW726-354	8890
			SW728-358	9860
			SW729-363	11600
			SW731-367	9180
			SW740-390	22000

* Data qualifier included with concentration value

Table 4-87
Exposure Unit 17
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Lead	μg/L	11.1	SW705-303	37.2
			SW706-305	11.5 E
			SW707-307	16.5 E
			SW708-309	11.7 E
			SW716-329	12.7
			SW717-332	88.9
			SW718-334	11.2 E
			SW740-390	151
Lithium	μg/L	13.2	C9-4-SW-1	32.3
			C9-4-SW-2	88.9
			C9-4-SW-3	155
			SW705-303	41.7
			SW706-305	18.8 E
			SW707-307	20.7 E
			SW708-309	18.1 E
			SW709-312	23
			SW710-314	16.1 E
			SW716-329	23.8
			SW717-332	40.1
			SW726-354	13.3
			SW728-358	13.7
			SW729-363	15.6
			SW740-390	26.8
Magnesium	μg/L	30200	SW701-292	34100
			SW704-301	30900
			SW715-327	35100
			SW716-329	32900
			SW717-332	50300
			SW724-350	32200
Mercury	μg/L	--	SW701-292	0.05 B
			SW706-305	0.05 B
			SW707-307	0.06 B
			SW708-309	0.05 B
			SW710-314	0.08 B
			SW714-325	0.06 B
			SW718-334	0.09 B
			SW732-369	0.06 B
			SW733-371	0.07 B
			SW734-374	0.06 B
			SW735-376	0.06 B
			SW739-384	0.08 B
			SW740-390	0.94

* Data qualifier included with concentration value

Table 4-87
Exposure Unit 17
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Nickel	μg/L	7.74	SW705-303	29.9
			SW706-305	15.5
			SW707-307	17.7
			SW708-309	16.1
			SW709-312	13.5
			SW710-314	12.6
			SW716-329	12.1
			SW717-332	27.9
			SW718-334	16.4
			SW725-352	8.7
			SW726-354	11.1
			SW728-358	11.4
			SW729-363	13.2
			SW731-367	10.8
			SW740-390	33.5
Potassium	μg/L	9540	SW717-332	11900
			SW740-390	40000
Selenium	μg/L	4.24	SW740-390	10.5 B
Silver	μg/L	0.03	SW705-303	0.37 B
			SW709-312	0.26 B
			SW716-329	0.28 B
			SW717-332	0.53 B
			SW721-344	0.25 B
			SW724-350	0.26 B
			SW725-352	0.32 B
			SW726-354	0.3 B
			SW728-358	0.3 B
			SW729-363	0.3 B
			SW740-390	0.29 B
Thallium	μg/L	0.026	SW714-325	0.76
			SW726-354	0.82

* Data qualifier included with concentration value

Table 4-87
Exposure Unit 17
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Vanadium	μg/L	8.52	SW705-303	38.4
			SW706-305	20.2
			SW707-307	22
			SW708-309	20
			SW709-312	18.4
			SW710-314	16.1
			SW716-329	16.8
			SW717-332	27.2
			SW725-352	9.4
			SW726-354	14.5
			SW728-358	15.2
			SW729-363	17.1
			SW731-367	12.7
			SW740-390	20
Zinc	μg/L	70.5	SW701-292	1460
			SW703-296	121
			SW705-303	197
			SW707-307	93.9
			SW716-329	110
			SW717-332	765
			SW718-334	72
			SW723-348	218
			SW724-350	99.3
			SW725-352	108
			SW734-374	111
			SW740-390	1200
Nitroaromatics				
2-Amino-4,6-dinitrotoluene	μg/L	0.0779	SW723-348	0.28
			SW734-374	0.16
Radionuclides, Dissolved				
Americium-241, Dissolved	pCi/L	--	SW920-2122	16.9
Thorium-228, Dissolved	pCi/L	0.405	SW912-2104	0.441
Uranium-234, Dissolved	pCi/L	6.07	SW911-2102	9.18
			SW911-2105	8.07
			SW912-2104	18.1
			SW914-2109	11.7
			SW915-2112	10.1
			SW916-2114	8.9
			SW919-2120	19 J
			SW920-2122	6.43
Uranium-235, Dissolved	pCi/L	0.634	SW912-2104	0.774
			SW919-2120	0.978 J

* Data qualifier included with concentration value

Table 4-87
Exposure Unit 17
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238, Dissolved	pCi/L	5.23	SW911-2102	8.23
			SW911-2105	7.11
			SW912-2104	16.7
			SW914-2109	10.2
			SW915-2112	9.03
			SW916-2114	7.73
			SW919-2120	18.2 J
			SW920-2122	6.54
Radionuclides, Total				
Alpha	pCi/L	12.2	SW704-301	13.3
			SW705-303	13.2
			SW706-305	14.7
			SW707-307	17.5
			SW708-309	16.1
			SW710-314	14.8
			SW716-329	39.9
			SW718-334	12.7
			SW728-358	13.1
			SW744-681	15.6
			SW911-2102	14.9
			SW911-2105	18.2
			SW912-2104	20.9
			SW914-2109	25.5
			SW915-2112	24
			SW916-2114	16.9
			SW918-2118	14.2
			SW919-2120	53.7 J
			SW920-2122	17.4

* Data qualifier included with concentration value

Table 4-87
Exposure Unit 17
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/L	12.3	SW705-303	28.8
			SW706-305	21.3
			SW707-307	19.4
			SW708-309	20.9
			SW709-312	17.3
			SW710-314	17.8
			SW716-329	65.1
			SW717-332	15.4
			SW718-334	19.4
			SW726-354	16.6
			SW727-356	19
			SW728-358	23.5
			SW729-363	16.4
			SW730-365	14
			SW731-367	18.8
			SW741-678	12.4
			SW744-681	17.5
			SW911-2102	19.4
			SW911-2105	16.2
			SW912-2104	50.2
			SW914-2109	16.3
			SW915-2112	15.8
			SW916-2114	15.3
			SW917-2116	14.5
			SW918-2118	17.9
			SW919-2120	39 J
			SW920-2122	18.2
Radium-226	pCi/L	0.487	SW701-292	3.66
			SW705-303	0.579 J
			SW707-307	0.805 J
			SW711-316	0.729 J
			SW712-318	0.935 J
			SW714-325	0.954 J
			SW733-371	1.47
			SW734-374	1.09
			SW744-681	0.725
			SW911-2102	0.652
			SW912-2104	2.21
			SW915-2112	0.685
			SW916-2114	0.686
			SW917-2116	0.607
			SW918-2118	0.899
			SW919-2120	0.924
Thorium-228	pCi/L	0.41	SW744-681	17.7

* Data qualifier included with concentration value

Table 4-87
Exposure Unit 17
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/L	0.606	SW744-681	24
Thorium-232	pCi/L	--	SW705-303	0.0726 J
			SW707-307	0.132 J
			SW708-309	0.0742 J
			SW709-312	0.102 J
			SW716-329	0.112 J
			SW730-365	0.0835 J
			SW731-367	0.0772 J
			SW744-681	12.5
			SW914-2109	0.087
			SW918-2118	0.111
			SW919-2120	0.0957 J
Total Uranium	μg/L	12.5	SW704-301	14.5
			SW911-2102	24
			SW911-2105	21.9
			SW912-2104	16.4
			SW914-2109	28.9
			SW915-2112	46.9
			SW916-2114	20.2
			SW919-2120	48.3
			SW920-2122	18
Uranium-234	pCi/L	5.78	SW744-681	6.81
			SW911-2102	12.4
			SW911-2105	10.5
			SW912-2104	16
			SW914-2109	15.1
			SW915-2112	8.08
			SW916-2114	11.4
			SW919-2120	17.7 J
			SW920-2122	7.62
Uranium-235	pCi/L	0.529	SW911-2105	0.964
			SW912-2104	0.778
			SW914-2109	0.756
			SW918-2118	0.567
			SW919-2120	0.91 J

* Data qualifier included with concentration value

Table 4-87
Exposure Unit 17
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/L	4.81	SW744-681	6.32
			SW911-2102	8.98
			SW911-2105	8.51
			SW912-2104	15.9
			SW914-2109	12.3
			SW915-2112	7.32
			SW916-2114	10.4
			SW918-2118	4.91
			SW919-2120	16.5 J
			SW920-2122	6.65

* Data qualifier included with concentration value

Table 4-88
Background Sediment Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Nitroaromatics							
1,3,5-Trinitrobenzene	µg/Kg	0/ 10					O
2,4,6-Trinitrotoluene	µg/Kg	0/ 10					O
2,4-Dinitrotoluene	µg/Kg	0/ 10					O
2,6-Dinitrotoluene	µg/Kg	0/ 10					O
2-Amino-4,6-dinitrotoluene	µg/Kg	0/ 10					O
2-Nitrotoluene	µg/Kg	0/ 10					O
3-Nitrotoluene	µg/Kg	0/ 10					O
4-Amino-2,6-dinitrotoluene	µg/Kg	0/ 10					O
4-Nitrotoluene	µg/Kg	0/ 10					O
HMX	µg/Kg	1/ 10	99.6	99.6	99.6	99.6	D
m-Dinitrobenzene	µg/Kg	0/ 10					O
Nitrobenzene	µg/Kg	0/ 10					O
RDX	µg/Kg	0/ 10					O
Tetryl	µg/Kg	0/ 10					O
Metals							
Aluminum	mg/Kg	10/ 10	9710	30400	34900	30400	N
Antimony	mg/Kg	6/ 10	0.52	5.03	5.03	5.03	D
Arsenic	mg/Kg	10/ 10	1.42	7.14	8.79	7.14	N
Barium	mg/Kg	10/ 10	78.8	246	293	246	N
Beryllium	mg/Kg	10/ 10	0.41	1.44	1.7	1.44	N
Boron	mg/Kg	10/ 10	7.26	31.4	37	31.4	N
Cadmium	mg/Kg	10/ 10	0.14	1.89	2.93	1.89	G
Calcium	mg/Kg	10/ 10	3960	59400	84400	59400	N
Chromium	mg/Kg	10/ 10	14.2	472	472	472	X
Cobalt	mg/Kg	10/ 10	4.55	21.3	24.5	21.3	N
Copper	mg/Kg	10/ 10	16.6	184	284	184	L
Iron	mg/Kg	10/ 10	12200	37800	47800	37800	N
Lead	mg/Kg	10/ 10	9.42	121	121	121	X
Lithium	mg/Kg	10/ 10	14.4	47	52.3	47	N
Magnesium	mg/Kg	10/ 10	2730	27300	33200	27300	N
Manganese	mg/Kg	10/ 10	165	814	1190	814	N
Mercury	mg/Kg	`	0.01	0.47	1.22	0.47	G
Nickel	mg/Kg	10/ 10	12	51.9	60.7	51.9	N
Potassium	mg/Kg	10/ 10	1510	5070	6790	5070	N
Selenium	mg/Kg	10/ 10	0.59	1.87	2.27	1.87	N
Silver	mg/Kg	10/ 10	0.05	0.74	1.75	0.74	G
Sodium	mg/Kg	10/ 10	56.4	679	1650	679	G
Thallium	mg/Kg	10/ 10	0.12	0.36	0.40	0.36	N
Vanadium	mg/Kg	10/ 10	19	60.6	72	60.6	N
Zinc	mg/Kg	10/ 10	64.4	405	800	405	L
PAHs							
Acenaphthene	µg/Kg	0/ 10					O
Acenaphthylene	µg/Kg	1/ 10	134	134	134	134	D
Anthracene	µg/Kg	0/ 10					O
Benzo(a)anthracene	µg/Kg	6/ 10	2.3	399	399	399	D
Benzo(a)pyrene	µg/Kg	3/ 10	148	618	618	618	D

Table 4-88
Background Sediment Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
PAHs (continued)							
Benzo(b)fluoranthene	µg/Kg	6/ 10	27.9	1090	1090	1090	D
Benzo(g,h,i)perylene	µg/Kg	2/ 10	68.4	179	179	179	D
Benzo(k)fluoranthene	µg/Kg	3/ 10	250	381	381	381	D
Chrysene	µg/Kg	4/ 10	57.3	470	470	470	D
Dibenzo(a,h)anthracene	µg/Kg	0/ 10					O
Fluoranthene	µg/Kg	5/ 10	42.6	696	696	696	D
Fluorene	µg/Kg	0/ 10					O
Indeno(1,2,3-cd)pyrene	µg/Kg	2/ 10	140	265	265	265	D
Naphthalene	µg/Kg	0/ 10					O
Phenanthrene	µg/Kg	3/ 10	99.1	169	169	169	D
Pyrene	µg/Kg	5/ 10	7.64	1000	1000	1000	D
PCBs							
Aroclor-1016	µg/Kg	0/ 10					O
Aroclor-1221	µg/Kg	0/ 10					O
Aroclor-1232	µg/Kg	0/ 10					O
Aroclor-1242	µg/Kg	3/ 10	9.61	66.3	66.3	66.3	D
Aroclor-1248	µg/Kg	0/ 10					O
Aroclor-1254	µg/Kg	6/ 10	3.59	58.3	58.3	58.3	D
Aroclor-1260	µg/Kg	6/ 10	1.8	21.7	21.7	21.7	D
Pesticides							
4,4'-DDD	µg/Kg	0/ 10					O
4,4'-DDE	µg/Kg	4/ 10	0.51	1.38	1.78	1.38	D
4,4'-DDT	µg/Kg	3/ 10	1.12	2.26	3.75	2.26	D
Aldrin	µg/Kg	0/ 10					O
alpha-BHC	µg/Kg	0/ 10					O
alpha-Chlordane	µg/Kg	0/ 10					O
beta-BHC	µg/Kg	0/ 10					O
delta-BHC	µg/Kg	0/ 10					O
Dieldrin	µg/Kg	2/ 10	0.34	0.64	1.69	0.64	D
Endosulfan I	µg/Kg	0/ 10					O
Endosulfan II	µg/Kg	0/ 10					O
Endosulfan sulfate	µg/Kg	0/ 10					O
Endrin	µg/Kg	0/ 10					O
Endrin aldehyde	µg/Kg	0/ 10					O
Endrin ketone	µg/Kg	0/ 10					O
gamma-BHC (Lindane)	µg/Kg	0/ 10					O
gamma-Chlordane	µg/Kg	0/ 10					O
Heptachlor	µg/Kg	0/ 10					O
Heptachlor epoxide	µg/Kg	0/ 10					O
Methoxychlor	µg/Kg	0/ 10					O
Toxaphene	µg/Kg	0/ 10					O
Radionuclides							
Actinium-227	pCi/g	0/ 10				0.31*	O
Alpha	pCi/g	10/ 10	10.7	22.4	28.6	22.4	N
Americium-241	pCi/g	0/ 10					O
Beta	pCi/g	10/ 10	20.7	38.6	43	38.6	L

Table 4-88
Background Sediment Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Radionuclides (continued)							
Cesium-137	pCi/g	7/ 10	0.03	0.39	0.389	0.39	D
Cobalt-60	pCi/g	0/ 10					O
Plutonium-238	pCi/g	0/ 1					O
Plutonium-239/240	pCi/g	0/ 1					O
Protactinium-231	pCi/g	0/ 10				0.31*	O
Radium-226	pCi/g	10/ 10	0.71	2.43	2.43	2.43	X
Radium-228	pCi/g	10/ 10	0.8	1.14	1.32	1.14	N
Strontium-90	pCi/g	0/ 1					O
Thorium-228	pCi/g	10/ 10	0.70	1.31	1.74	1.31	N
Thorium-230	pCi/g	6/ 10	0.96	5.58	5.58	5.58	D
Thorium-232	pCi/g	10/ 10	0.64	1.23	1.5	1.23	N
Total Activity	pCi/g	0/ 5					O
Total Uranium	µg/g	10/ 10	1.7	6.47	9.14	6.47	G
Uranium-234	pCi/g	10/ 10	0.84	3.57	3.57	3.57	X
Uranium-235	pCi/g	2/ 10	0.19	0.31	0.31	0.31	D
Uranium-238	pCi/g	10/ 10	0.49	3.08	5.01	3.08	G
Semivolatile Organics							
1,2,4-Trichlorobenzene	µg/Kg	0/ 10					O
1,2-Dichlorobenzene	µg/Kg	0/ 10					O
1,3-Dichlorobenzene	µg/Kg	0/ 10					O
1,4-Dichlorobenzene	µg/Kg	0/ 10					O
2,4,5-Trichlorophenol	µg/Kg	0/ 10					O
2,4,6-Trichlorophenol	µg/Kg	0/ 10					O
2,4-Dichlorophenol	µg/Kg	0/ 10					O
2,4-Dimethylphenol	µg/Kg	0/ 10					O
2,4-Dinitrophenol	µg/Kg	0/ 10					O
2-Chloronaphthalene	µg/Kg	0/ 10					O
2-Chlorophenol	µg/Kg	0/ 10					O
2-Methyl-4,6-dinitrophenol	µg/Kg	0/ 10					O
2-Methylnaphthalene	µg/Kg	0/ 10					O
2-Nitroaniline	µg/Kg	0/ 10					O
2-Nitrophenol	µg/Kg	0/ 10					O
3,3'-Dichlorobenzidine	µg/Kg	0/ 10					O
3-Nitroaniline	µg/Kg	0/ 10					O
4-Bromophenylphenylether	µg/Kg	0/ 10					O
4-Chloro-3-methylphenol	µg/Kg	0/ 10					O
4-Chloroaniline	µg/Kg	0/ 10					O
4-Chlorophenylphenylether	µg/Kg	0/ 10					O
4-Nitroaniline	µg/Kg	0/ 10					O
4-Nitrophenol	µg/Kg	0/ 10					O
Benzoic Acid	µg/Kg	0/ 10					O
bis(2-Chloroethoxy)methane	µg/Kg	0/ 10					O
bis(2-Chloroethyl)ether	µg/Kg	0/ 10					O
bis(2-Chloroisopropyl)ether	µg/Kg	0/ 10					O
bis(2-Ethylhexyl)phthalate	µg/Kg	5/ 10	99.5	31300	31300	31300	D
Butylbenzylphthalate	µg/Kg	0/ 10					O

Table 4-88
Background Sediment Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Semivolatile Organics (continued)							
Carbazole	µg/Kg	0/ 10					O
Dibenzofuran	µg/Kg	0/ 10					O
Diethylphthalate	µg/Kg	0/ 10					O
Dimethylphthalate	µg/Kg	0/ 10					O
Di-n-butylphthalate	µg/Kg	0/ 10					O
Di-n-octylphthalate	µg/Kg	0/ 10					O
Hexachlorobenzene	µg/Kg	0/ 10					O
Hexachlorobutadiene	µg/Kg	0/ 10					O
Hexachlorocyclopentadiene	µg/Kg	0/ 10					O
Hexachloroethane	µg/Kg	0/ 10					O
Isophorone	µg/Kg	0/ 10					O
m,p-Cresols	µg/Kg	0/ 10					O
N-Nitroso-di-n-propylamine	µg/Kg	0/ 10					O
N-Nitrosodiphenylamine	µg/Kg	0/ 10					O
o-Cresol	µg/Kg	0/ 10					O
Pentachlorophenol	µg/Kg	0/ 10					O
Phenol	µg/Kg	0/ 10					O
Volatile Organics							
1,1,1-Trichloroethane	µg/Kg	0/ 10					O
1,1,2,2-Tetrachloroethane	µg/Kg	0/ 10					O
1,1,2-Trichloroethane	µg/Kg	0/ 10					O
1,1-Dichloroethane	µg/Kg	0/ 10					O
1,1-Dichloroethene	µg/Kg	6/ 10	0.92	3.46	3.46	3.46	D
1,2-Dichloroethane	µg/Kg	0/ 10					O
1,2-Dichloropropane	µg/Kg	0/ 10					O
2-Butanone	µg/Kg	1/ 10	49.3	49.3	49.3	49.3	D
2-Hexanone	µg/Kg	0/ 10					O
4-Methyl-2-pentanone	µg/Kg	0/ 10					O
Acetone	µg/Kg	5/ 10	23.5	206	206	206	D
Benzene	µg/Kg	0/ 10					O
Bromodichloromethane	µg/Kg	0/ 10					O
Bromoform	µg/Kg	0/ 10					O
Bromomethane	µg/Kg	0/ 10					O
Carbon disulfide	µg/Kg	0/ 10					O
Carbon tetrachloride	µg/Kg	0/ 10					O
Chlorobenzene	µg/Kg	0/ 10					O
Chloroethane	µg/Kg	0/ 10					O
Chloroform	µg/Kg	0/ 10					O
Chloromethane	µg/Kg	0/ 10					O
cis-1,2-Dichloroethene	µg/Kg	0/ 10					O
cis-1,3-Dichloropropene	µg/Kg	0/ 10					O
Dibromochloromethane	µg/Kg	0/ 10					O
Ethylbenzene	µg/Kg	0/ 10					O
Methylene chloride	µg/Kg	0/ 10					O
Styrene	µg/Kg	0/ 10					O
Tetrachloroethene	µg/Kg	0/ 10					O

Table 4-88
Background Sediment Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Volatile Organics (continued)							
Toluene	µg/Kg	3/ 10	0.92	8.89	8.89	8.89	D
trans-1,2-Dichloroethene	µg/Kg	0/ 10					O
trans-1,3-Dichloropropene	µg/Kg	0/ 10					O
Trichloroethene	µg/Kg	0/ 10					O
Vinyl chloride	µg/Kg	0/ 10					O
Xylenes (total)	µg/Kg	0/ 10					O

Substitutions:
*0.31 Uranium-235 SD UTL substituted for Actinium-227 and Protactinium-231 in SD

Dist Codes:
L - Distribution most similar to lognormal
N - Distribution most similar to normal
G - Distribution most similar to gamma
O - No detects, no UTL calculated
X - Distribution significantly different from normal and lognormal
D - Distribution not determined because less than 50% detects or less than 8 detects
Z - Distribution with negative results and therefore treated as normal

Table 4-89
Exposure Unit 5
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	7	11400 E*	13200	7
Antimony	mg/Kg	7	--	--	0
Arsenic	mg/Kg	7	1.8	4	7
Barium	mg/Kg	7	101 N	190	7
Beryllium	mg/Kg	7	0.53 B	0.74	7
Boron	mg/Kg	7	2.2 B	7.5	7
Cadmium	mg/Kg	7	0.28 B	0.75	7
Calcium	mg/Kg	7	2420 E*	54400 E	7
Chromium	mg/Kg	7	16.1 *	20.1 E	7
Cobalt	mg/Kg	7	6.3 E*	11.5 E	7
Copper	mg/Kg	7	18.6 *N	29.9 E	7
Iron	mg/Kg	7	18100	24100 E	7
Lead	mg/Kg	7	6.3 E*	14.3	7
Lithium	mg/Kg	7	17.7 E*	26	7
Magnesium	mg/Kg	7	2450 *	10800 E	7
Manganese	mg/Kg	7	271	737 E	7
Mercury	mg/Kg	7	0.014 B	0.13	7
Nickel	mg/Kg	7	13.5	26.4 E	7
Potassium	mg/Kg	7	641 E	1480 EN	7
Selenium	mg/Kg	7	0.48 B	1.4 B	5
Silver	mg/Kg	7	0.02 B	0.16 B	7
Sodium	mg/Kg	7	68.3	120 E	7
Thallium	mg/Kg	7	0.02 B	0.14 B	4
Vanadium	mg/Kg	7	23	26.2 E	7
Zinc	mg/Kg	7	39.5 E*	246	7
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	3	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	3	--	--	0
2,4-Dinitrotoluene	μg/Kg	8	--	--	0
2,6-Dinitrotoluene	μg/Kg	8	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	3	--	--	0
2-Nitrotoluene	μg/Kg	3	--	--	0
3-Dinitrobenzene	μg/Kg	3	--	--	0
3-Nitrotoluene	μg/Kg	3	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	3	--	--	0
4-Nitrotoluene	μg/Kg	3	--	--	0
HMX	μg/Kg	3	--	--	0
Nitrobenzene	μg/Kg	8	--	--	0
RDX	μg/Kg	3	--	--	0
Tetryl	μg/Kg	3	--	--	0
PAHs					
Acenaphthene	μg/Kg	8	--	--	0
Acenaphthylene	μg/Kg	8	--	--	0

* Data qualifier included with concentration value

Table 4-89
Exposure Unit 5
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	8	--	--	0
Benzo(a)anthracene	µg/Kg	8	--	--	0
Benzo(a)pyrene	µg/Kg	8	--	--	0
Benzo(b)fluoranthene	µg/Kg	8	--	--	0
Benzo(g,h,i)perylene	µg/Kg	8	--	--	0
Benzo(k)fluoranthene	µg/Kg	8	--	--	0
Chrysene	µg/Kg	8	--	--	0
Dibenzo(a,h)anthracene	µg/Kg	8	--	--	0
Fluoranthene	µg/Kg	8	--	--	0
Fluorene	µg/Kg	8	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	8	--	--	0
Naphthalene	µg/Kg	8	--	--	0
Phenanthrene	µg/Kg	8	--	--	0
Pyrene	µg/Kg	8	--	--	0
PCBs					
Aroclor-1016	µg/Kg	4	--	--	0
Aroclor-1221	µg/Kg	4	--	--	0
Aroclor-1232	µg/Kg	4	--	--	0
Aroclor-1242	µg/Kg	4	--	--	0
Aroclor-1248	µg/Kg	4	--	--	0
Aroclor-1254	µg/Kg	4	--	--	0
Aroclor-1260	µg/Kg	4	--	--	0
Pesticides					
4,4'-DDD	µg/Kg	4	--	--	0
4,4'-DDE	µg/Kg	4	--	--	0
4,4'-DDT	µg/Kg	4	--	--	0
Aldrin	µg/Kg	4	--	--	0
alpha-BHC	µg/Kg	4	--	--	0
alpha-Chlordane	µg/Kg	4	--	--	0
beta-BHC	µg/Kg	4	--	--	0
delta-BHC	µg/Kg	4	--	--	0
Dieldrin	µg/Kg	4	--	--	0
Endosulfan I	µg/Kg	4	--	--	0
Endosulfan II	µg/Kg	4	--	--	0
Endosulfan sulfate	µg/Kg	4	--	--	0
Endrin	µg/Kg	4	--	--	0
Endrin aldehyde	µg/Kg	4	--	--	0
Endrin ketone	µg/Kg	4	--	--	0
gamma-BHC (Lindane)	µg/Kg	4	--	--	0
gamma-Chlordane	µg/Kg	4	--	--	0
Heptachlor	µg/Kg	4	--	--	0
Heptachlor epoxide	µg/Kg	4	--	--	0
Methoxychlor	µg/Kg	4	--	--	0
Toxaphene	µg/Kg	4	--	--	0

* Data qualifier included with concentration value

Table 4-89
Exposure Unit 5
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	3	--	--	0
Alpha	pCi/g	12	10.4	19.7	12
Americium-241	pCi/g	3	--	--	0
Beta	pCi/g	12	19.7	45.7	12
Cesium-137	pCi/g	12	0.0657 J	0.451 J	5
Cobalt-60	pCi/g	3	--	--	0
Potassium-40	pCi/g	3	16.4	17.1	3
Protactinium-231	pCi/g	3	--	--	0
Radium-226	pCi/g	12	0.643	1.31	12
Radium-228	pCi/g	3	0.814	1.05	3
Thorium-228	pCi/g	12	0.556	1.31 J	12
Thorium-230	pCi/g	12	0.784 J	1.1 J	12
Thorium-232	pCi/g	12	0.624 J	1.11 J	12
Total Uranium	μg/g	12	1.92	7.73 J	12
Uranium-234	pCi/g	12	0.694	3.25	12
Uranium-235	pCi/g	12	0.0849	0.146 J	2
Uranium-238	pCi/g	12	0.725	3.08	12
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	8	--	--	0
1,2-Dichlorobenzene	μg/Kg	8	--	--	0
1,3-Dichlorobenzene	μg/Kg	8	--	--	0
1,4-Dichlorobenzene	μg/Kg	8	--	--	0
2,4,5-Trichlorophenol	μg/Kg	8	--	--	0
2,4,6-Trichlorophenol	μg/Kg	8	--	--	0
2,4-Dichlorophenol	μg/Kg	8	--	--	0
2,4-Dimethylphenol	μg/Kg	8	--	--	0
2,4-Dinitrophenol	μg/Kg	8	--	--	0
2-Chloronaphthalene	μg/Kg	8	--	--	0
2-Chlorophenol	μg/Kg	8	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	8	--	--	0
2-Methylnaphthalene	μg/Kg	8	--	--	0
2-Nitroaniline	μg/Kg	8	--	--	0
2-Nitrophenol	μg/Kg	8	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	8	--	--	0
3-Nitroaniline	μg/Kg	8	--	--	0
4-Bromophenylphenylether	μg/Kg	8	--	--	0
4-Chloro-3-methylphenol	μg/Kg	8	--	--	0
4-Chloroaniline	μg/Kg	8	--	--	0
4-Chlorophenylphenylether	μg/Kg	8	--	--	0
4-Nitroaniline	μg/Kg	8	--	--	0
4-Nitrophenol	μg/Kg	8	--	--	0
Benzoic Acid	μg/Kg	8	--	--	0
bis(2-Chloroethoxy)methane	μg/Kg	8	--	--	0

* Data qualifier included with concentration value

Table 4-89
Exposure Unit 5
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethyl)ether	µg/Kg	8	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	8	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	8	--	--	0
Butylbenzylphthalate	µg/Kg	8	--	--	0
Carbazole	µg/Kg	8	--	--	0
Dibenzofuran	µg/Kg	8	--	--	0
Diethylphthalate	µg/Kg	8	--	--	0
Dimethylphthalate	µg/Kg	8	--	--	0
Di-n-butylphthalate	µg/Kg	8	--	--	0
Di-n-octylphthalate	µg/Kg	8	--	--	0
Diphenylamine	µg/Kg	8	--	--	0
Hexachlorobenzene	µg/Kg	8	--	--	0
Hexachlorobutadiene	µg/Kg	8	--	--	0
Hexachlorocyclopentadiene	µg/Kg	8	--	--	0
Hexachloroethane	µg/Kg	8	--	--	0
Isophorone	µg/Kg	8	--	--	0
m,p-Cresols	µg/Kg	8	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	8	--	--	0
o-Cresol	µg/Kg	8	--	--	0
Pentachlorophenol	µg/Kg	8	--	--	0
Phenol	µg/Kg	8	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	11	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	11	--	--	0
1,1,2-Trichloroethane	µg/Kg	11	--	--	0
1,1-Dichloroethane	µg/Kg	11	--	--	0
1,1-Dichloroethene	µg/Kg	11	--	--	0
1,2-Dichloroethane	µg/Kg	11	--	--	0
1,2-Dichloropropane	µg/Kg	11	--	--	0
2-Butanone	µg/Kg	11	7.6 J	7.6 J	1
2-Hexanone	µg/Kg	11	--	--	0
4-Methyl-2-pentanone	µg/Kg	11	--	--	0
Acetone	µg/Kg	11	1.6 J	7.9 J	2
Benzene	µg/Kg	11	--	--	0
Bromodichloromethane	µg/Kg	11	--	--	0
Bromoform	µg/Kg	11	--	--	0
Bromomethane	µg/Kg	11	--	--	0
Carbon disulfide	µg/Kg	11	--	--	0
Carbon tetrachloride	µg/Kg	11	--	--	0
Chlorobenzene	µg/Kg	11	--	--	0
Chloroethane	µg/Kg	11	--	--	0
Chloroform	µg/Kg	11	--	--	0
Chloromethane	µg/Kg	11	--	--	0
cis-1,2-Dichloroethene	µg/Kg	11	--	--	0

* Data qualifier included with concentration value

Table 4-89
Exposure Unit 5
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
cis-1,3-Dichloropropene	µg/Kg	11	--	--	0
Dibromochloromethane	µg/Kg	11	--	--	0
Ethylbenzene	µg/Kg	11	--	--	0
Methylene chloride	µg/Kg	11	6.8 B	9 B	2
Styrene	µg/Kg	11	--	--	0
Tetrachloroethene	µg/Kg	11	--	--	0
Toluene	µg/Kg	11	0.14 J	0.24 J	4
trans-1,2-Dichloroethene	µg/Kg	11	--	--	0
trans-1,3-Dichloropropene	µg/Kg	11	--	--	0
Trichloroethene	µg/Kg	11	--	--	0
Vinyl chloride	µg/Kg	11	--	--	0
Xylenes (total)	µg/Kg	11	--	--	0

* Data qualifier included with concentration value

Table 4-90
Exposure Unit 15
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	14	9470	23700	14
Antimony	mg/Kg	14	--	--	0
Arsenic	mg/Kg	14	2.1	9.8	14
Barium	mg/Kg	14	90.5 E	249 E	14
Beryllium	mg/Kg	14	0.445 B	1.4	14
Boron	mg/Kg	17	5.5 B	43.8 J	17
Cadmium	mg/Kg	14	0.53 B	2.1	10
Calcium	mg/Kg	14	6280 E*	56900 E	14
Chromium	mg/Kg	14	14.4	63	14
Cobalt	mg/Kg	14	5.9 E*	19.6 E	14
Copper	mg/Kg	14	27.9 E	87.4 E	14
Iron	mg/Kg	14	12000 *	41900	14
Lead	mg/Kg	14	7.82	144	14
Lithium	mg/Kg	17	15.7 E	43.1	17
Magnesium	mg/Kg	14	3560 *	17900	14
Manganese	mg/Kg	14	144 E	2190 *	14
Mercury	mg/Kg	14	0.016 B	0.95	14
Nickel	mg/Kg	14	19.2 E	74.6 E	14
Potassium	mg/Kg	14	1220 E	3790	14
Selenium	mg/Kg	14	0.58 BN	2.6 B	13
Silver	mg/Kg	14	0.053 B	0.41	14
Sodium	mg/Kg	14	56.7 *	558 E	14
Thallium	mg/Kg	14	0.073 B	0.53	11
Vanadium	mg/Kg	14	19.5	46.6 E	14
Zinc	mg/Kg	14	39.4 N	416	14
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/Kg	9	--	--	0
2,4,6-Trinitrotoluene	µg/Kg	9	--	--	0
2,4-Dinitrotoluene	µg/Kg	14	--	--	0
2,6-Dinitrotoluene	µg/Kg	14	--	--	0
2-Amino-4,6-dinitrotoluene	µg/Kg	9	--	--	0
2-Nitrotoluene	µg/Kg	9	--	--	0
3-Dinitrobenzene	µg/Kg	9	--	--	0
3-Nitrotoluene	µg/Kg	9	--	--	0
4-Amino-2,6-dinitrotoluene	µg/Kg	9	--	--	0
4-Nitrotoluene	µg/Kg	9	--	--	0
HMX	µg/Kg	9	--	--	0
Nitrobenzene	µg/Kg	14	--	--	0
RDX	µg/Kg	9	--	--	0
Tetryl	µg/Kg	9	--	--	0
PAHs					
Acenaphthene	µg/Kg	11	--	--	0
Acenaphthylene	µg/Kg	11	--	--	0

* Data qualifier included with concentration value

Table 4-90
Exposure Unit 15
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	11	--	--	0
Benzo(a)anthracene	µg/Kg	11	--	--	0
Benzo(a)pyrene	µg/Kg	11	--	--	0
Benzo(b)fluoranthene	µg/Kg	11	--	--	0
Benzo(g,h,i)perylene	µg/Kg	11	--	--	0
Benzo(k)fluoranthene	µg/Kg	11	--	--	0
Chrysene	µg/Kg	11	--	--	0
Dibenzo(a,h)anthracene	µg/Kg	11	--	--	0
Fluoranthene	µg/Kg	11	57.4 J	57.4 J	1
Fluorene	µg/Kg	11	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	11	--	--	0
Naphthalene	µg/Kg	11	--	--	0
Phenanthrene	µg/Kg	11	--	--	0
Pyrene	µg/Kg	11	58 J	58 J	1
PCBs					
Aroclor-1016	µg/Kg	10	--	--	0
Aroclor-1221	µg/Kg	10	--	--	0
Aroclor-1232	µg/Kg	10	--	--	0
Aroclor-1242	µg/Kg	10	--	--	0
Aroclor-1248	µg/Kg	10	--	--	0
Aroclor-1254	µg/Kg	10	24.4 J	43.3 J	3
Aroclor-1260	µg/Kg	10	--	--	0
Pesticides					
4,4'-DDD	µg/Kg	10	--	--	0
4,4'-DDE	µg/Kg	10	--	--	0
4,4'-DDT	µg/Kg	10	--	--	0
Aldrin	µg/Kg	10	--	--	0
alpha-BHC	µg/Kg	10	--	--	0
alpha-Chlordane	µg/Kg	10	--	--	0
beta-BHC	µg/Kg	10	--	--	0
delta-BHC	µg/Kg	10	--	--	0
Dieldrin	µg/Kg	10	--	--	0
Endosulfan I	µg/Kg	10	--	--	0
Endosulfan II	µg/Kg	10	--	--	0
Endosulfan sulfate	µg/Kg	10	--	--	0
Endrin	µg/Kg	10	--	--	0
Endrin aldehyde	µg/Kg	10	--	--	0
Endrin ketone	µg/Kg	10	--	--	0
gamma-BHC (Lindane)	µg/Kg	10	--	--	0
gamma-Chlordane	µg/Kg	10	--	--	0
Heptachlor	µg/Kg	10	--	--	0
Heptachlor epoxide	µg/Kg	10	--	--	0
Methoxychlor	µg/Kg	10	--	--	0
Toxaphene	µg/Kg	10	--	--	0

* Data qualifier included with concentration value

Table 4-90
Exposure Unit 15
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	5	--	--	0
Alpha	pCi/g	18	6.72	23	18
Americium-241	pCi/g	5	--	--	0
Beta	pCi/g	18	14.4	37.9	18
Cesium-137	pCi/g	16	0.0357 J	0.49 J	8
Cobalt-60	pCi/g	5	--	--	0
Plutonium-238	pCi/g	4	--	--	0
Plutonium-239/240	pCi/g	4	--	--	0
Protactinium-231	pCi/g	5	--	--	0
Radium-226	pCi/g	18	0.643	2.05	18
Radium-228	pCi/g	5	0.794	1.14	5
Thorium-228	pCi/g	18	0.724	1.68	18
Thorium-230	pCi/g	18	0.775 J	1.89 J	18
Thorium-232	pCi/g	18	0.651	1.15 J	18
Total Activity	pCi/g	5	--	--	0
Total Uranium	μg/g	18	1.4	4.96 J	18
Uranium-234	pCi/g	18	0.735	2.05	18
Uranium-235	pCi/g	18	0.0801	0.118 J	6
Uranium-238	pCi/g	18	0.674 J	2.1	18
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	11	--	--	0
1,2-Dichlorobenzene	μg/Kg	11	--	--	0
1,3-Dichlorobenzene	μg/Kg	11	--	--	0
1,4-Dichlorobenzene	μg/Kg	11	--	--	0
2,4,5-Trichlorophenol	μg/Kg	11	--	--	0
2,4,6-Trichlorophenol	μg/Kg	11	--	--	0
2,4-Dichlorophenol	μg/Kg	11	--	--	0
2,4-Dimethylphenol	μg/Kg	11	--	--	0
2,4-Dinitrophenol	μg/Kg	11	--	--	0
2-Chloronaphthalene	μg/Kg	11	--	--	0
2-Chlorophenol	μg/Kg	11	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	11	--	--	0
2-Methylnaphthalene	μg/Kg	11	--	--	0
2-Nitroaniline	μg/Kg	11	--	--	0
2-Nitrophenol	μg/Kg	11	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	11	--	--	0
3-Nitroaniline	μg/Kg	11	--	--	0
4-Bromophenylphenylether	μg/Kg	11	--	--	0
4-Chloro-3-methylphenol	μg/Kg	11	--	--	0
4-Chloroaniline	μg/Kg	11	--	--	0
4-Chlorophenylphenylether	μg/Kg	11	--	--	0
4-Nitroaniline	μg/Kg	11	--	--	0
4-Nitrophenol	μg/Kg	11	--	--	0

* Data qualifier included with concentration value

Table 4-90
Exposure Unit 15
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Benzoic Acid	µg/Kg	11	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	11	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	11	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	11	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	11	--	--	0
Butylbenzylphthalate	µg/Kg	11	--	--	0
Carbazole	µg/Kg	11	--	--	0
Dibenzofuran	µg/Kg	11	--	--	0
Diethylphthalate	µg/Kg	11	--	--	0
Dimethylphthalate	µg/Kg	11	--	--	0
Di-n-butylphthalate	µg/Kg	11	--	--	0
Di-n-octylphthalate	µg/Kg	11	--	--	0
Diphenylamine	µg/Kg	10	--	--	0
Hexachlorobenzene	µg/Kg	11	--	--	0
Hexachlorobutadiene	µg/Kg	11	--	--	0
Hexachlorocyclopentadiene	µg/Kg	11	--	--	0
Hexachloroethane	µg/Kg	11	--	--	0
Isophorone	µg/Kg	11	--	--	0
m,p-Cresols	µg/Kg	11	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	11	--	--	0
N-Nitrosodiphenylamine	µg/Kg	1	--	--	0
o-Cresol	µg/Kg	11	--	--	0
Pentachlorophenol	µg/Kg	11	--	--	0
Phenol	µg/Kg	11	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	9	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	9	--	--	0
1,1,2-Trichloroethane	µg/Kg	9	--	--	0
1,1-Dichloroethane	µg/Kg	9	--	--	0
1,1-Dichloroethene	µg/Kg	9	--	--	0
1,2-Dichloroethane	µg/Kg	9	--	--	0
1,2-Dichloropropane	µg/Kg	9	--	--	0
2-Butanone	µg/Kg	9	6.1 J	14	2
2-Hexanone	µg/Kg	9	--	--	0
4-Methyl-2-pentanone	µg/Kg	9	--	--	0
Acetone	µg/Kg	9	3.4 J	31.2	6
Benzene	µg/Kg	9	--	--	0
Bromodichloromethane	µg/Kg	9	--	--	0
Bromoform	µg/Kg	9	--	--	0
Bromomethane	µg/Kg	9	--	--	0
Carbon disulfide	µg/Kg	9	--	--	0
Carbon tetrachloride	µg/Kg	9	--	--	0
Chlorobenzene	µg/Kg	9	--	--	0
Chloroethane	µg/Kg	9	--	--	0

* Data qualifier included with concentration value

Table 4-90
Exposure Unit 15
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chloroform	µg/Kg	9	--	--	0
Chloromethane	µg/Kg	9	--	--	0
cis-1,2-Dichloroethene	µg/Kg	9	--	--	0
cis-1,3-Dichloropropene	µg/Kg	9	--	--	0
Dibromochloromethane	µg/Kg	9	--	--	0
Ethylbenzene	µg/Kg	9	--	--	0
Methylene chloride	µg/Kg	9	16.1 B	16.1 B	1
Styrene	µg/Kg	9	--	--	0
Tetrachloroethene	µg/Kg	9	--	--	0
Toluene	µg/Kg	9	0.26 J	0.9 J	2
trans-1,2-Dichloroethene	µg/Kg	9	--	--	0
trans-1,3-Dichloropropene	µg/Kg	9	--	--	0
Trichloroethene	µg/Kg	9	--	--	0
Vinyl chloride	µg/Kg	9	--	--	0
Xylenes (total)	µg/Kg	9	--	--	0

* Data qualifier included with concentration value

Table 4-91
Exposure Unit 17
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	21	9470	23700	21
Antimony	mg/Kg	21	--	--	0
Arsenic	mg/Kg	21	1.8	9.8	21
Barium	mg/Kg	21	90.5 E	249 E	21
Beryllium	mg/Kg	21	0.445 B	1.4	21
Boron	mg/Kg	24	2.2 B	43.8 J	24
Cadmium	mg/Kg	21	0.28 B	2.1	17
Calcium	mg/Kg	21	2420 E*	56900 E	21
Chromium	mg/Kg	21	14.4	63	21
Cobalt	mg/Kg	21	5.9 E*	19.6 E	21
Copper	mg/Kg	21	18.6 *N	87.4 E	21
Iron	mg/Kg	21	12000 *	41900	21
Lead	mg/Kg	21	6.3 E*	144	21
Lithium	mg/Kg	24	15.7 E	43.1	24
Magnesium	mg/Kg	21	2450 *	17900	21
Manganese	mg/Kg	21	144 E	2190 *	21
Mercury	mg/Kg	21	0.014 B	0.95	21
Nickel	mg/Kg	21	13.5	74.6 E	21
Potassium	mg/Kg	21	641 E	3790	21
Selenium	mg/Kg	21	0.48 B	2.6 B	18
Silver	mg/Kg	21	0.02 B	0.41	21
Sodium	mg/Kg	21	56.7 *	558 E	21
Thallium	mg/Kg	21	0.02 B	0.53	15
Vanadium	mg/Kg	21	19.5	46.6 E	21
Zinc	mg/Kg	21	39.4 N	416	21
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	12	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	12	--	--	0
2,4-Dinitrotoluene	μg/Kg	22	--	--	0
2,6-Dinitrotoluene	μg/Kg	22	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	12	--	--	0
2-Nitrotoluene	μg/Kg	12	--	--	0
3-Dinitrobenzene	μg/Kg	12	--	--	0
3-Nitrotoluene	μg/Kg	12	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	12	--	--	0
4-Nitrotoluene	μg/Kg	12	--	--	0
HMX	μg/Kg	12	--	--	0
Nitrobenzene	μg/Kg	22	--	--	0
RDX	μg/Kg	12	--	--	0
Tetryl	μg/Kg	12	--	--	0
PAHs					
Acenaphthene	μg/Kg	19	--	--	0
Acenaphthylene	μg/Kg	19	--	--	0

* Data qualifier included with concentration value

Table 4-91
Exposure Unit 17
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	19	--	--	0
Benzo(a)anthracene	µg/Kg	19	--	--	0
Benzo(a)pyrene	µg/Kg	19	--	--	0
Benzo(b)fluoranthene	µg/Kg	19	--	--	0
Benzo(g,h,i)perylene	µg/Kg	19	--	--	0
Benzo(k)fluoranthene	µg/Kg	19	--	--	0
Chrysene	µg/Kg	19	--	--	0
Dibenzo(a,h)anthracene	µg/Kg	19	--	--	0
Fluoranthene	µg/Kg	19	57.4 J	57.4 J	1
Fluorene	µg/Kg	19	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	19	--	--	0
Naphthalene	µg/Kg	19	--	--	0
Phenanthrene	µg/Kg	19	--	--	0
Pyrene	µg/Kg	19	58 J	58 J	1
PCBs					
Aroclor-1016	µg/Kg	14	--	--	0
Aroclor-1221	µg/Kg	14	--	--	0
Aroclor-1232	µg/Kg	14	--	--	0
Aroclor-1242	µg/Kg	14	--	--	0
Aroclor-1248	µg/Kg	14	--	--	0
Aroclor-1254	µg/Kg	14	24.4 J	43.3 J	3
Aroclor-1260	µg/Kg	14	--	--	0
Pesticides					
4,4'-DDD	µg/Kg	14	--	--	0
4,4'-DDE	µg/Kg	14	--	--	0
4,4'-DDT	µg/Kg	14	--	--	0
Aldrin	µg/Kg	14	--	--	0
alpha-BHC	µg/Kg	14	--	--	0
alpha-Chlordane	µg/Kg	14	--	--	0
beta-BHC	µg/Kg	14	--	--	0
delta-BHC	µg/Kg	14	--	--	0
Dieldrin	µg/Kg	14	--	--	0
Endosulfan I	µg/Kg	14	--	--	0
Endosulfan II	µg/Kg	14	--	--	0
Endosulfan sulfate	µg/Kg	14	--	--	0
Endrin	µg/Kg	14	--	--	0
Endrin aldehyde	µg/Kg	14	--	--	0
Endrin ketone	µg/Kg	14	--	--	0
gamma-BHC (Lindane)	µg/Kg	14	--	--	0
gamma-Chlordane	µg/Kg	14	--	--	0
Heptachlor	µg/Kg	14	--	--	0
Heptachlor epoxide	µg/Kg	14	--	--	0
Methoxychlor	µg/Kg	14	--	--	0
Toxaphene	µg/Kg	14	--	--	0

* Data qualifier included with concentration value

Table 4-91
Exposure Unit 17
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	10	--	--	0
Alpha	pCi/g	32	6.72	23	32
Americium-241	pCi/g	10	--	--	0
Beta	pCi/g	32	14.4	45.7	32
Cesium-137	pCi/g	30	0.0357 J	0.49 J	15
Cobalt-60	pCi/g	10	--	--	0
Plutonium-238	pCi/g	4	--	--	0
Plutonium-239/240	pCi/g	4	--	--	0
Potassium-40	pCi/g	5	16.4	22.5	5
Protactinium-231	pCi/g	10	--	--	0
Radium-226	pCi/g	32	0.643	2.05	32
Radium-228	pCi/g	10	0.794	1.16	10
Thorium-228	pCi/g	32	0.556	1.68	32
Thorium-230	pCi/g	32	0.775 J	1.89 J	32
Thorium-232	pCi/g	32	0.624 J	1.15 J	32
Total Activity	pCi/g	5	--	--	0
Total Uranium	μg/g	32	1.4	7.73 J	32
Uranium-234	pCi/g	32	0.694	3.25	32
Uranium-235	pCi/g	32	0.0801	0.146 J	9
Uranium-238	pCi/g	32	0.674 J	3.08	32
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	19	--	--	0
1,2-Dichlorobenzene	μg/Kg	19	--	--	0
1,3-Dichlorobenzene	μg/Kg	19	--	--	0
1,4-Dichlorobenzene	μg/Kg	19	--	--	0
2,4,5-Trichlorophenol	μg/Kg	19	--	--	0
2,4,6-Trichlorophenol	μg/Kg	19	--	--	0
2,4-Dichlorophenol	μg/Kg	19	--	--	0
2,4-Dimethylphenol	μg/Kg	19	--	--	0
2,4-Dinitrophenol	μg/Kg	19	--	--	0
2-Chloronaphthalene	μg/Kg	19	--	--	0
2-Chlorophenol	μg/Kg	19	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	19	--	--	0
2-Methylnaphthalene	μg/Kg	19	--	--	0
2-Nitroaniline	μg/Kg	19	--	--	0
2-Nitrophenol	μg/Kg	19	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	19	--	--	0
3-Nitroaniline	μg/Kg	19	--	--	0
4-Bromophenylphenylether	μg/Kg	19	--	--	0
4-Chloro-3-methylphenol	μg/Kg	19	--	--	0
4-Chloroaniline	μg/Kg	19	--	--	0
4-Chlorophenylphenylether	μg/Kg	19	--	--	0
4-Nitroaniline	μg/Kg	19	--	--	0

* Data qualifier included with concentration value

Table 4-91
Exposure Unit 17
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
4-Nitrophenol	µg/Kg	19	--	--	0
Benzoic Acid	µg/Kg	19	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	19	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	19	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	19	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	19	--	--	0
Butylbenzylphthalate	µg/Kg	19	--	--	0
Carbazole	µg/Kg	19	--	--	0
Dibenzofuran	µg/Kg	19	--	--	0
Diethylphthalate	µg/Kg	19	--	--	0
Dimethylphthalate	µg/Kg	19	--	--	0
Di-n-butylphthalate	µg/Kg	19	--	--	0
Di-n-octylphthalate	µg/Kg	19	--	--	0
Diphenylamine	µg/Kg	18	--	--	0
Hexachlorobenzene	µg/Kg	19	--	--	0
Hexachlorobutadiene	µg/Kg	19	--	--	0
Hexachlorocyclopentadiene	µg/Kg	19	--	--	0
Hexachloroethane	µg/Kg	19	--	--	0
Isophorone	µg/Kg	19	--	--	0
m,p-Cresols	µg/Kg	19	--	--	0
N-Nitroso-di-n-propylamine	µg/Kg	19	--	--	0
N-Nitrosodiphenylamine	µg/Kg	1	--	--	0
o-Cresol	µg/Kg	19	--	--	0
Pentachlorophenol	µg/Kg	19	--	--	0
Phenol	µg/Kg	19	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	20	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	20	--	--	0
1,1,2-Trichloroethane	µg/Kg	20	--	--	0
1,1-Dichloroethane	µg/Kg	20	--	--	0
1,1-Dichloroethene	µg/Kg	20	--	--	0
1,2-Dichloroethane	µg/Kg	20	--	--	0
1,2-Dichloropropane	µg/Kg	20	--	--	0
2-Butanone	µg/Kg	20	6.1 J	14	3
2-Hexanone	µg/Kg	20	--	--	0
4-Methyl-2-pentanone	µg/Kg	20	--	--	0
Acetone	µg/Kg	20	1.6 J	31.2	8
Benzene	µg/Kg	20	--	--	0
Bromodichloromethane	µg/Kg	20	--	--	0
Bromoform	µg/Kg	20	--	--	0
Bromomethane	µg/Kg	20	--	--	0
Carbon disulfide	µg/Kg	20	--	--	0
Carbon tetrachloride	µg/Kg	20	--	--	0
Chlorobenzene	µg/Kg	20	--	--	0

* Data qualifier included with concentration value

Table 4-91
Exposure Unit 17
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chloroethane	µg/Kg	20	--	--	0
Chloroform	µg/Kg	20	--	--	0
Chloromethane	µg/Kg	20	--	--	0
cis-1,2-Dichloroethene	µg/Kg	20	--	--	0
cis-1,3-Dichloropropene	µg/Kg	20	--	--	0
Dibromochloromethane	µg/Kg	20	--	--	0
Ethylbenzene	µg/Kg	20	--	--	0
Methylene chloride	µg/Kg	20	6.8 B	16.1 B	3
Styrene	µg/Kg	20	--	--	0
Tetrachloroethene	µg/Kg	20	--	--	0
Toluene	µg/Kg	20	0.14 J	0.9 J	6
trans-1,2-Dichloroethene	µg/Kg	20	--	--	0
trans-1,3-Dichloropropene	µg/Kg	20	--	--	0
Trichloroethene	µg/Kg	20	--	--	0
Vinyl chloride	µg/Kg	20	--	--	0
Xylenes (total)	µg/Kg	20	--	--	0

* Data qualifier included with concentration value

Table 4-92
Exposure Unit 5
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radionuclides				
Beta	pCi/g	38.6	SD727-357	45.7
Cesium-137	pCi/g	0.389	SD735-377	0.451 J
Potassium-40	pCi/g	--	SEDC01-08-2125	17.1
			SEDC03-10-2133	17.1
			SEDC04-10-2138	16.4
Total Uranium	μg/g	6.47	SD735-377	7.73 J
Volatile Organics				
Methylene chloride	μg/Kg	--	SD729-364	6.8 B
			SD739-385	9 B

* Data qualifier included with concentration value

Table 4-93
Exposure Unit 15
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Arsenic	mg/Kg	7.14	SD718-338	9.8
Boron	mg/Kg	31.4	C9-4-SD-1	43.8 J
			C9-4-SD-2	36.9 J
			C9-4-SD-3	35.4 J
Cadmium	mg/Kg	1.89	SD720-343	2.1
Iron	mg/Kg	37800	SD707-308	41900
			SD720-343	38200 E
Lead	mg/Kg	121	SD718-338	144
Manganese	mg/Kg	814	OTFL2-S-3694	2190 *
			SD706-306	1120 E*
			SD709-313	1200
			SD710-315	818
			SD718-338	859 E*
Mercury	mg/Kg	0.47	SD717-333	0.51
			SD718-338	0.58
			SD720-343	0.95
Nickel	mg/Kg	51.9	SD720-343	74.6 E
Selenium	mg/Kg	1.87	OTFL2-S-3694	1.94 N
			SD718-338	2.4 N
			SD720-343	2.6 B
Thallium	mg/Kg	0.356	SD717-333	0.53
			SD718-338	0.38
Radionuclides				
Cesium-137	pCi/g	0.389	SD718-338	0.49 J
Thorium-228	pCi/g	1.31	SD-CD5-3405-0.67	1.68
Volatile Organics				
Methylene chloride	μg/Kg	--	SD722-347	16.1 B

* Data qualifier included with concentration value

Table 4-94
Exposure Unit 17
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Arsenic	mg/Kg	7.14	SD718-338	9.8
Boron	mg/Kg	31.4	C9-4-SD-1	43.8 J
			C9-4-SD-2	36.9 J
			C9-4-SD-3	35.4 J
Cadmium	mg/Kg	1.89	SD720-343	2.1
Iron	mg/Kg	37800	SD707-308	41900
			SD720-343	38200 E
Lead	mg/Kg	121	SD718-338	144
Manganese	mg/Kg	814	OTFL2-S-3694	2190 *
			SD706-306	1120 E*
			SD709-313	1200
			SD710-315	818
			SD718-338	859 E*
Mercury	mg/Kg	0.47	SD717-333	0.51
			SD718-338	0.58
			SD720-343	0.95
Nickel	mg/Kg	51.9	SD720-343	74.6 E
Selenium	mg/Kg	1.87	OTFL2-S-3694	1.94 N
			SD718-338	2.4 N
			SD720-343	2.6 B
Thallium	mg/Kg	0.356	SD717-333	0.53
			SD718-338	0.38
Zinc	mg/Kg	405	SD709-313	416
Radionuclides				
Beta	pCi/g	38.6	SD727-357	45.7
Cesium-137	pCi/g	0.389	SD718-338	0.49 J
			SD735-377	0.451 J
Potassium-40	pCi/g	--	SD919-2119	22.5
			SD920-2121	22.2
			SEDC01-08-2125	17.1
			SEDC03-10-2133	17.1
			SEDC04-10-2138	16.4
Thorium-228	pCi/g	1.31	SD920-2121	1.38
			SD-CD5-3405-0.67	1.68
Total Uranium	μg/g	6.47	SD735-377	7.73 J
Volatile Organics				
Methylene chloride	μg/Kg	--	SD722-347	16.1 B
			SD729-364	6.8 B
			SD739-385	9 B

* Data qualifier included with concentration value

Table 4-95
Background Groundwater Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Nitroaromatics							
1,3,5-Trinitrobenzene	µg/L	0/ 24					O
2,4,6-Trinitrotoluene	µg/L	0/ 24					O
2,4-Dinitrotoluene	µg/L	0/ 24					O
2,6-Dinitrotoluene	µg/L	0/ 24					O
2-Amino-4,6-dinitrotoluene	µg/L	0/ 24					O
2-Nitrotoluene	µg/L	0/ 24					O
3-Nitrotoluene	µg/L	0/ 24					O
4-Amino-2,6-dinitrotoluene	µg/L	0/ 24					O
4-Nitrotoluene	µg/L	0/ 24					O
HMX	µg/L	0/ 24					O
m-Dinitrobenzene	µg/L	0/ 24					O
Nitrobenzene	µg/L	0/ 24					O
RDX	µg/L	0/ 24					O
Tetryl	µg/L	0/ 24					O
Metals							
Aluminum	µg/L	23/ 28	3.94	979	1180	979	L
Aluminum, Dissolved	µg/L	11/ 28	9.99	616	616	616	D
Antimony	µg/L	13/ 28	0.10	2.34	2.34	2.34	D
Antimony, Dissolved	µg/L	6/ 28	0.06	2.4	2.4	2.4	D
Arsenic	µg/L	23/ 28	3.3	30.6	30.6	30.6	X
Arsenic, Dissolved	µg/L	13/ 28	3.6	25.7	25.7	25.7	D
Barium	µg/L	28/ 28	5.69	46.8	46.8	46.8	X
Barium, Dissolved	µg/L	28/ 28	4.13	42.8	42.8	42.8	X
Beryllium	µg/L	0/ 28					O
Beryllium, Dissolved	µg/L	2/ 28	0.16	0.19	0.19	0.19	D
Boron	µg/L	28/ 28	67.9	3820	3820	3820	X
Boron, Dissolved	µg/L	28/ 28	63.2	4750	4750	4750	X
Cadmium	µg/L	26/ 28	0.9	2.51	2.51	2.51	X
Cadmium, Dissolved	µg/L	16/ 28	0.27	2.32	2.32	2.32	X
Calcium	µg/L	28/ 28	50400	620000	639000	620000	N
Calcium, Dissolved	µg/L	28/ 28	49400	603000	673000	603000	N
Chromium	µg/L	`	1.03	3.19	3.19	3.19	X
Chromium, Dissolved	µg/L	9/ 28	1.1	16	16	16	D
Cobalt	µg/L	6/ 28	0.47	2.8	2.8	2.8	D
Cobalt, Dissolved	µg/L	4/ 28	0.55	3	3	3	D
Copper	µg/L	18/ 28	1.66	204	204	204	X
Copper, Dissolved	µg/L	11/ 28	2.42	90.9	90.9	90.9	D
Iron	µg/L	26/ 27	28.1	8810	8810	8810	X
Iron, Dissolved	µg/L	24/ 26	7.62	9280	9280	9280	X
Lead	µg/L	24/ 28	0.02	5.99	10.80	5.99	G
Lead, Dissolved	µg/L	6/ 28	0.01	0.94	0.935	0.94	D
Lithium	µg/L	27/ 28	3.5	1130	1130	1130	X
Lithium, Dissolved	µg/L	27/ 28	3.9	978	972	972	N
Magnesium	µg/L	28/ 28	25900	580000	580000	580000	X
Magnesium, Dissolved	µg/L	28/ 28	25100	618000	618000	618000	X
Manganese	µg/L	28/ 28	2.97	722	722	722	X

Table 4-95
Background Groundwater Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Metals (continued)							
Manganese, Dissolved	µg/L	27/ 28	5.86	966	966	966	X
Mercury	µg/L	2/ 28	0.15	0.17	0.17	0.17	D
Mercury, Dissolved	µg/L	2/ 28	0.15	0.15	0.15	0.15	D
Nickel	µg/L	4/ 28	0.83	6.48	6.48	6.48	D
Nickel, Dissolved	µg/L	12/ 28	0.73	6.15	6.15	6.15	D
Potassium	µg/L	28/ 28	712	63600	62100	62100	N
Potassium, Dissolved	µg/L	28/ 28	715	52400	57700	52400	N
Selenium	µg/L	23/ 28	1.79	4.24	4.62	4.24	N
Selenium, Dissolved	µg/L	15/ 28	2.27	10.3	10.3	10.3	X
Silver	µg/L	9/ 28	0.01	0.02	1.10	0.02	D
Silver, Dissolved	µg/L	4/ 28	0.00	2.50	2.5	2.5	D
Sodium	µg/L	28/ 28	17700	1200000	1200000	1200000	X
Sodium, Dissolved	µg/L	28/ 28	17600	1540000	1540000	1540000	X
Thallium	µg/L	16/ 28	0.01	1.72	1.72	1.72	X
Thallium, Dissolved	µg/L	3/ 28	0.06	0.22	1.20	0.22	D
Vanadium	µg/L	9/ 28	0.32	2.80	2.80	2.8	D
Vanadium, Dissolved	µg/L	3/ 28	0.31	2.60	2.60	2.6	D
Zinc	µg/L	20/ 28	0.35	131	131	131	X
Zinc, Dissolved	µg/L	11/ 28	0.85	108	108	108	D
PAHs							
Acenaphthene	µg/L	0/ 24					O
Acenaphthylene	µg/L	0/ 24					O
Anthracene	µg/L	0/ 24					O
Benzo(a)anthracene	µg/L	0/ 24					O
Benzo(a)pyrene	µg/L	0/ 24					O
Benzo(b)fluoranthene	µg/L	0/ 24					O
Benzo(g,h,i)perylene	µg/L	0/ 24					O
Benzo(k)fluoranthene	µg/L	1/ 24	0.03	0.03	0.03	0.03	D
Chrysene	µg/L	0/ 24					O
Dibenzo(a,h)anthracene	µg/L	0/ 24					O
Fluoranthene	µg/L	0/ 24					O
Fluorene	µg/L	0/ 24					O
Indeno(1,2,3-cd)pyrene	µg/L	0/ 24					O
Naphthalene	µg/L	0/ 24					O
Phenanthrene	µg/L	0/ 24					O
Pyrene	µg/L	0/ 24					O
PCBs							
Aroclor-1016	µg/L	0/ 24					O
Aroclor-1221	µg/L	0/ 24					O
Aroclor-1232	µg/L	0/ 24					O
Aroclor-1242	µg/L	0/ 24					O
Aroclor-1248	µg/L	0/ 24					O
Aroclor-1254	µg/L	0/ 24					O
Aroclor-1260	µg/L	0/ 24					O

Table 4-95
Background Groundwater Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Pesticides							
4,4'-DDD	µg/L	0/ 24					O
4,4'-DDE	µg/L	7/ 24	0.004	0.01	0.01	0.01	D
4,4'-DDT	µg/L	9/ 24	0.01	0.04	0.04	0.04	D
Aldrin	µg/L	0/ 24					O
alpha-BHC	µg/L	0/ 24					O
alpha-Chlordane	µg/L	0/ 24					O
beta-BHC	µg/L	0/ 24					O
delta-BHC	µg/L	0/ 24					O
Dieldrin	µg/L	0/ 24					O
Endosulfan I	µg/L	0/ 24					O
Endosulfan II	µg/L	0/ 24					O
Endosulfan sulfate	µg/L	0/ 24					O
Endrin	µg/L	0/ 24					O
Endrin aldehyde	µg/L	0/ 24					O
Endrin ketone	µg/L	0/ 24					O
gamma-BHC (Lindane)	µg/L	0/ 24					O
gamma-Chlordane	µg/L	0/ 24					O
Heptachlor	µg/L	0/ 24					O
Heptachlor epoxide	µg/L	0/ 24					O
Methoxychlor	µg/L	0/ 24					O
Toxaphene	µg/L	0/ 24					O
Radionuclides							
Actinium-227	pCi/L	0/ 24					O
Actinium-227, Dissolved	pCi/L	0/ 23					O
Alpha	pCi/L	6/ 24	5.91	59.2	59.2	15**	D
Alpha, Dissolved	pCi/L	6/ 24	9.29	63.6	63.6	15**	D
Americium-241[2]	pCi/L	1/ 24	12.2	12.2	13.6	12.2	D
Americium-241, Dissolved	pCi/L	0/ 23					O
Beta	pCi/L	23/ 24	11.3	2340	2340	50**	X
Beta, Dissolved	pCi/L	23/ 24	6.5	617	617	50**	X
Cesium-137	pCi/L	0/ 24					O
Cesium-137, Dissolved	pCi/L	0/ 23					O
Cobalt-60	pCi/L	0/ 24					O
Cobalt-60, Dissolved	pCi/L	0/ 23					O
Protactinium-231	pCi/L	0/ 24					O
Protactinium-231, Dissolved	pCi/L	0/ 23					O
Radium-226	pCi/L	20/ 24	0.31	1.76	1.76	1.76	X
Radium-226, Dissolved	pCi/L	14/ 23	0.36	1.55	1.31	1.31	N
Radium-228	pCi/L	11/ 24	0.57	1.67	1.67	1.67	D
Radium-228, Dissolved	pCi/L	14/ 23	0.89	1.6	1.83	1.6	N
Thorium-228	pCi/L	1/ 24	0.25	0.25	0.32	0.25	D
Thorium-228, Dissolved	pCi/L	2/ 23	0.15	0.16	0.16	0.16	D
Thorium-230	pCi/L	23/ 24	0.29	0.88	0.88	0.88	N
Thorium-230, Dissolved	pCi/L	16/ 23	0.17	0.39	0.42	0.39	N
Thorium-232	pCi/L	9/ 24	0.05	0.23	0.26	0.23	D
Thorium-232, Dissolved	pCi/L	0/ 23				0.23*	O

Table 4-95
Background Groundwater Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Radionuclides (continued)							
Total Uranium	µg/L	24/ 24	0.30	15.6	50	15.6	G
Total Uranium, Dissolved	µg/L	24/ 24	0.24	16.7	57.9	16.7	G
Uranium-234	pCi/L	23/ 24	0.21	8.73	21.3	8.73	G
Uranium-234, Dissolved	pCi/L	23/ 23	0.18	8.94	25.6	8.94	G
Uranium-235	pCi/L	5/ 24	0.19	0.72	0.72	0.72	D
Uranium-235, Dissolved	pCi/L	10/ 23	0.08	0.51	0.51	0.51	D
Uranium-238	pCi/L	19/ 24	0.12	5.79	28.2	5.79	G
Uranium-238, Dissolved	pCi/L	21/ 23	0.11	6.32	23	6.32	G
Semivolatile Organics							
1,2,4-Trichlorobenzene	µg/L	0/ 24					O
1,2-Dichlorobenzene	µg/L	0/ 24					O
1,3-Dichlorobenzene	µg/L	0/ 24					O
1,4-Dichlorobenzene	µg/L	0/ 24					O
2,4,5-Trichlorophenol	µg/L	0/ 24					O
2,4,6-Trichlorophenol	µg/L	0/ 24					O
2,4-Dichlorophenol	µg/L	0/ 24					O
2,4-Dimethylphenol	µg/L	0/ 24					O
2,4-Dinitrophenol	µg/L	0/ 24					O
2-Chloronaphthalene	µg/L	0/ 24					O
2-Chlorophenol	µg/L	0/ 24					O
2-Methyl-4,6-dinitrophenol	µg/L	0/ 24					O
2-Methylnaphthalene	µg/L	0/ 24					O
2-Nitroaniline	µg/L	0/ 24					O
2-Nitrophenol	µg/L	0/ 24					O
3,3'-Dichlorobenzidine	µg/L	0/ 24					O
3-Nitroaniline	µg/L	0/ 24					O
4-Bromophenylphenylether	µg/L	0/ 24					O
4-Chloro-3-methylphenol	µg/L	0/ 24					O
4-Chloroaniline	µg/L	0/ 24					O
4-Chlorophenylphenylether	µg/L	0/ 24					O
4-Nitroaniline	µg/L	0/ 24					O
4-Nitrophenol	µg/L	0/ 24					O
bis(2-Chloroethoxy)methane	µg/L	0/ 24					O
bis(2-Chloroethyl)ether	µg/L	0/ 24					O
bis(2-Chloroisopropyl)ether	µg/L	0/ 24					O
bis(2-Ethylhexyl)phthalate	µg/L	0/ 24					O
Butylbenzylphthalate	µg/L	0/ 24					O
Carbazole	µg/L	0/ 24					O
Dibenzofuran	µg/L	0/ 24					O
Diethylphthalate	µg/L	0/ 24					O
Dimethylphthalate	µg/L	0/ 24					O
Di-n-butylphthalate	µg/L	0/ 24					O
Di-n-octylphthalate	µg/L	0/ 24					O
Hexachlorobenzene	µg/L	0/ 24					O
Hexachlorobutadiene	µg/L	0/ 24					O
Hexachlorocyclopentadiene	µg/L	0/ 24					O

Table 4-95
Background Groundwater Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Semivolatile Organics (continued)							
Hexachloroethane	µg/L	0/ 24					O
Isophorone	µg/L	0/ 24					O
m,p-Cresols	µg/L	0/ 24					O
N-Nitroso-di-n-propylamine	µg/L	0/ 24					O
N-Nitrosodiphenylamine	µg/L	0/ 24					O
o-Cresol	µg/L	0/ 24					O
Pentachlorophenol	µg/L	0/ 24					O
Phenol	µg/L	0/ 24					O
Volatile Organics							
1,1,1-Trichloroethane	µg/L	1/ 24	0.44	0.44	0.435	0.44	D
1,1,2,2-Tetrachloroethane	µg/L	0/ 24					O
1,1,2-Trichloroethane	µg/L	0/ 24					O
1,1-Dichloroethane	µg/L	0/ 24					O
1,1-Dichloroethene	µg/L	0/ 24					O
1,2-Dichloroethane	µg/L	0/ 24					O
1,2-Dichloropropane	µg/L	0/ 24					O
2-Butanone	µg/L	1/ 24	4.49	4.49	4.49	4.49	D
2-Hexanone	µg/L	0/ 24					O
4-Methyl-2-pentanone	µg/L	0/ 24					O
Acetone	µg/L	4/ 24	3.96	30.5	30.5	30.5	D
Benzene	µg/L	1/ 24	0.37	0.37	0.37	0.37	D
Bromodichloromethane	µg/L	0/ 24					O
Bromoform	µg/L	0/ 24					O
Bromomethane	µg/L	0/ 24					O
Carbon disulfide	µg/L	0/ 24					O
Carbon tetrachloride	µg/L	0/ 24					O
Chlorobenzene	µg/L	1/ 24	0.39	0.39	0.39	0.39	D
Chloroethane	µg/L	0/ 24					O
Chloroform	µg/L	0/ 24					O
Chloromethane	µg/L	0/ 24					O
cis-1,2-Dichloroethene	µg/L	0/ 24					O
cis-1,3-Dichloropropene	µg/L	0/ 24					O
Dibromochloromethane	µg/L	0/ 24					O
Ethylbenzene	µg/L	1/ 24	0.30	0.30	0.30	0.30	D
Methylene chloride	µg/L	0/ 24					O
Styrene	µg/L	0/ 24					O
Tetrachloroethene	µg/L	0/ 24					O
Toluene	µg/L	2/ 24	0.44	4.45	4.45	4.45	D
trans-1,2-Dichloroethene	µg/L	0/ 24					O
trans-1,3-Dichloropropene	µg/L	1/ 24	0.50	0.50	0.50	0.50	D

Table 4-95
Background Groundwater Summary Statistics
Niagara Falls Storage Site Remedial Investigation

Analyte	Units	Results >Detection Limit	Minimum Detect	Maximum Detect	95% UTL	Site-specific UTL Criteria	Dist
Volatile Organics (continued)							
Trichloroethene	µg/L	0/ 24					O
Vinyl chloride	µg/L	1/ 24	1.48	1.48	1.48	1.48	D
Xylenes (total)	µg/L	1/ 24	0.96	0.96	0.96	0.96	D

[1]Background values based on removal of the following data:
Removal of GW outliers; all data from GW wells PZ21S-U-3108 and PZ25S-U-3107

[2] The detection of Americium-241 in GW had no effect on the BRA since there were no detections of Americium-241 in RI GW samples

Substitutions:
*0.23 Thorium-232 GW UTL substituted for Thorium-232 (Dissolved) in GW
**15,50 GW MCLs for alpha,beta substituted in GW

Dist Codes:
L - Distribution most similar to lognormal
N - Distribution most similar to normal
G - Distribution most similar to gamma
O - No detects, no UTL calculated
X - Distribution significantly different from normal and lognormal
D - Distribution not determined because less than 50% detects or less than 8 detects
Z - Distribution with negative results and therefore treated as normal

Table 4-96
Exposure Unit 1
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	10	19.7 B	411	6
Antimony, Dissolved	µg/L	10	0.131 B	11.7	4
Arsenic, Dissolved	µg/L	10	0.59 B	10.7 B	10
Barium, Dissolved	µg/L	10	0.31 B	31.2	10
Beryllium, Dissolved	µg/L	10	0.45 B	0.45 B	1
Boron, Dissolved	µg/L	10	82.5	3530	10
Cadmium, Dissolved	µg/L	10	0.31 B	2 B	2
Calcium, Dissolved	µg/L	10	78500	471000	10
Chromium, Dissolved	µg/L	10	1.4 B	2.7 B	2
Cobalt, Dissolved	µg/L	10	1.07 B	4.29 B	3
Copper, Dissolved	µg/L	10	1.6 B	14.8	6
Iron, Dissolved	µg/L	10	37.5 B	5200	5
Lead, Dissolved	µg/L	10	0.071 B	0.554 B	5
Lithium, Dissolved	µg/L	10	58.9	800 NE	10
Magnesium, Dissolved	µg/L	10	64200	1300000	10
Manganese, Dissolved	µg/L	10	13.2	684	10
Mercury, Dissolved	µg/L	10	0.07 B	0.12 J	2
Nickel, Dissolved	µg/L	10	2.06 B	9.89	5
Potassium, Dissolved	µg/L	10	4010 EN	49000	10
Selenium, Dissolved	µg/L	10	0.758 B	6.1	9
Silver, Dissolved	µg/L	10	0.01 B	0.79 B	8
Sodium, Dissolved	µg/L	10	46400	817000	10
Thallium, Dissolved	µg/L	10	0.017 B	0.04 B	2
Vanadium, Dissolved	µg/L	10	0.89 B	2.12 B	4
Zinc, Dissolved	µg/L	10	1.5 B	41.2	2
Metals, Total					
Aluminum	µg/L	10	31.4 B	19100	9
Antimony	µg/L	10	0.08 B	6	6
Arsenic	µg/L	10	3.4 B	13.6 B	9
Barium	µg/L	10	4.9 B	103	10
Beryllium	µg/L	10	0.82 B	0.82 B	1
Boron	µg/L	10	82.5	3510 E	10
Cadmium	µg/L	10	--	--	0
Calcium	µg/L	10	78900	488000	10
Chromium	µg/L	10	0.67 B	21.9	6
Cobalt	µg/L	10	9.3	9.3	1
Copper	µg/L	10	2.03 B	52.7	6
Iron	µg/L	10	119	23500	10
Lead	µg/L	10	0.155 B	8.4 B	5
Lithium	µg/L	10	39.1	716 E	10
Magnesium	µg/L	10	67400	1360000	10
Manganese	µg/L	10	36.1	719	10
Mercury	µg/L	10	0.072 BN	0.15 J	3

* Data qualifier included with concentration value

Table 4-96
Exposure Unit 1
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	10	2.8 B	25.1	3
Potassium	µg/L	10	3800	39800	10
Selenium	µg/L	10	1.02 B	10 B	9
Silver	µg/L	10	0.008 B	0.31 B	5
Sodium	µg/L	10	47900	851000	10
Thallium	µg/L	10	0.109 BN	0.109 BN	1
Vanadium	µg/L	10	2.3 B	34.6	5
Zinc	µg/L	10	2.1 B	460	4
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	9	0.084 J	1.4 J	2
2,4,6-Trinitrotoluene	µg/L	9	--	--	0
2,4-Dinitrotoluene	µg/L	10	--	--	0
2,6-Dinitrotoluene	µg/L	10	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	9	--	--	0
2-Nitrotoluene	µg/L	9	--	--	0
3-Dinitrobenzene	µg/L	9	--	--	0
3-Nitrotoluene	µg/L	9	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	9	--	--	0
4-Nitrotoluene	µg/L	9	--	--	0
HMX	µg/L	9	0.42 J	0.42 J	1
Nitrobenzene	µg/L	10	--	--	0
RDX	µg/L	9	--	--	0
Tetryl	µg/L	9	--	--	0
PAHs					
Acenaphthene	µg/L	10	--	--	0
Acenaphthylene	µg/L	10	--	--	0
Anthracene	µg/L	10	--	--	0
Benzo(a)anthracene	µg/L	10	--	--	0
Benzo(a)pyrene	µg/L	10	--	--	0
Benzo(b)fluoranthene	µg/L	10	--	--	0
Benzo(g,h,i)perylene	µg/L	10	--	--	0
Benzo(k)fluoranthene	µg/L	10	--	--	0
Chrysene	µg/L	10	--	--	0
Dibenzo(a,h)anthracene	µg/L	10	--	--	0
Fluoranthene	µg/L	10	--	--	0
Fluorene	µg/L	10	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	10	--	--	0
Naphthalene	µg/L	10	--	--	0
Phenanthrene	µg/L	10	--	--	0
Pyrene	µg/L	10	--	--	0
PCBs					
Aroclor-1016	µg/L	9	--	--	0
Aroclor-1221	µg/L	9	--	--	0
Aroclor-1232	µg/L	9	--	--	0

* Data qualifier included with concentration value

Table 4-96
Exposure Unit 1
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	9	--	--	0
Aroclor-1248	µg/L	9	--	--	0
Aroclor-1254	µg/L	9	--	--	0
Aroclor-1260	µg/L	9	--	--	0
Pesticides					
4,4'-DDD	µg/L	9	0.0279 J	0.0279 J	1
4,4'-DDE	µg/L	9	--	--	0
4,4'-DDT	µg/L	9	0.0263 J	0.0263 J	1
Aldrin	µg/L	9	--	--	0
alpha-BHC	µg/L	9	--	--	0
alpha-Chlordane	µg/L	9	--	--	0
beta-BHC	µg/L	9	--	--	0
delta-BHC	µg/L	9	--	--	0
Dieldrin	µg/L	9	--	--	0
Endosulfan I	µg/L	9	--	--	0
Endosulfan II	µg/L	9	0.0241 J	0.0241 J	1
Endosulfan sulfate	µg/L	9	0.0195 J	0.0195 J	1
Endrin	µg/L	9	--	--	0
Endrin aldehyde	µg/L	9	--	--	0
Endrin ketone	µg/L	9	--	--	0
gamma-BHC (Lindane)	µg/L	9	--	--	0
gamma-Chlordane	µg/L	9	--	--	0
Heptachlor	µg/L	9	--	--	0
Heptachlor epoxide	µg/L	9	--	--	0
Methoxychlor	µg/L	9	--	--	0
Toxaphene	µg/L	9	--	--	0
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	4	--	--	0
Alpha, Dissolved	pCi/L	3	4.96	20.5	2
Americium-241, Dissolved	pCi/L	4	--	--	0
Beta, Dissolved	pCi/L	3	8.27	23.6	3
Cesium-137, Dissolved	pCi/L	4	--	--	0
Cobalt-60, Dissolved	pCi/L	4	--	--	0
Protactinium-231, Dissolved	pCi/L	4	--	--	0
Radium-226, Dissolved	pCi/L	4	--	--	0
Radium-228, Dissolved	pCi/L	4	1.03	1.03	1
Thorium-228, Dissolved	pCi/L	4	--	--	0
Thorium-230, Dissolved	pCi/L	4	--	--	0
Thorium-232, Dissolved	pCi/L	4	--	--	0
Total Uranium, Dissolved	µg/L	4	0.381	47.2	4
Uranium-234, Dissolved	pCi/L	4	0.437	22.1	4
Uranium-235, Dissolved	pCi/L	4	0.118	0.684	3
Uranium-238, Dissolved	pCi/L	4	0.207	17.5	4
Radionuclides, Total					

* Data qualifier included with concentration value

Table 4-96
Exposure Unit 1
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Actinium-227	pCi/L	5	--	--	0
Alpha	pCi/L	10	3.54	71.8	9
Americium-241	pCi/L	5	--	--	0
Beta	pCi/L	10	9.67	41.1	10
Cesium-137	pCi/L	5	--	--	0
Cobalt-60	pCi/L	5	--	--	0
Protactinium-231	pCi/L	5	--	--	0
Radium-226	pCi/L	10	0.576 J	1.94	6
Radium-228	pCi/L	5	--	--	0
Thorium-228	pCi/L	10	0.228	0.557 J	3
Thorium-230	pCi/L	10	0.234	0.337	4
Thorium-232	pCi/L	10	0.0754	0.337	5
Total Uranium	μg/L	10	0.435 J	62.4	8
Uranium-234	pCi/L	10	0.109 J	24.7	9
Uranium-235	pCi/L	10	0.471	1.19	5
Uranium-238	pCi/L	10	0.155 J	20.3	9
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/L	10	--	--	0
1,2-Dichlorobenzene	μg/L	10	--	--	0
1,3-Dichlorobenzene	μg/L	10	--	--	0
1,4-Dichlorobenzene	μg/L	10	--	--	0
2,4,5-Trichlorophenol	μg/L	10	--	--	0
2,4,6-Trichlorophenol	μg/L	10	--	--	0
2,4-Dichlorophenol	μg/L	10	--	--	0
2,4-Dimethylphenol	μg/L	10	--	--	0
2,4-Dinitrophenol	μg/L	10	--	--	0
2-Chloronaphthalene	μg/L	10	--	--	0
2-Chlorophenol	μg/L	10	--	--	0
2-Methyl-4,6-dinitrophenol	μg/L	20	--	--	0
2-Methylnaphthalene	μg/L	9	--	--	0
2-Nitroaniline	μg/L	10	--	--	0
2-Nitrophenol	μg/L	10	--	--	0
3,3'-Dichlorobenzidine	μg/L	10	--	--	0
3-Nitroaniline	μg/L	10	--	--	0
4-Bromophenylphenylether	μg/L	10	--	--	0
4-Chloro-3-methylphenol	μg/L	10	--	--	0
4-Chloroaniline	μg/L	10	--	--	0
4-Chlorophenylphenylether	μg/L	10	--	--	0
4-Nitroaniline	μg/L	10	--	--	0
4-Nitrophenol	μg/L	10	--	--	0
Benzoic Acid	μg/L	7	--	--	0
bis(2-Chloroethoxy)methane	μg/L	10	--	--	0
bis(2-Chloroethyl)ether	μg/L	10	--	--	0
bis(2-Chloroisopropyl)ether	μg/L	10	--	--	0

* Data qualifier included with concentration value

Table 4-96
Exposure Unit 1
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Ethylhexyl)phthalate	µg/L	10	6.4 J	6.4 J	1
Butylbenzylphthalate	µg/L	10	--	--	0
Carbazole	µg/L	10	--	--	0
Dibenzofuran	µg/L	10	--	--	0
Diethylphthalate	µg/L	10	--	--	0
Dimethylphthalate	µg/L	10	--	--	0
Di-n-butylphthalate	µg/L	10	--	--	0
Di-n-octylphthalate	µg/L	10	--	--	0
Diphenylamine	µg/L	7	--	--	0
Hexachlorobenzene	µg/L	10	--	--	0
Hexachlorobutadiene	µg/L	10	--	--	0
Hexachlorocyclopentadiene	µg/L	10	--	--	0
Hexachloroethane	µg/L	10	--	--	0
Isophorone	µg/L	10	--	--	0
m,p-Cresols	µg/L	9	--	--	0
N-Nitroso-di-n-propylamine	µg/L	10	--	--	0
N-Nitrosodiphenylamine	µg/L	3	--	--	0
o-Cresol	µg/L	10	--	--	0
p-Cresol	µg/L	1	--	--	0
Pentachlorophenol	µg/L	10	--	--	0
Phenol	µg/L	10	0.306 J	0.306 J	1
Volatile Organics					
1,1,1-Trichloroethane	µg/L	9	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	9	--	--	0
1,1,2-Trichloroethane	µg/L	9	--	--	0
1,1-Dichloroethane	µg/L	9	--	--	0
1,1-Dichloroethene	µg/L	9	--	--	0
1,2-Dichloroethane	µg/L	9	--	--	0
1,2-Dichloroethene	µg/L	1	--	--	0
1,2-Dichloropropane	µg/L	9	--	--	0
2-Butanone	µg/L	8	8.4	8.4	1
2-Hexanone	µg/L	9	--	--	0
4-Methyl-2-pentanone	µg/L	8	--	--	0
Acetone	µg/L	9	0.62 J	4.84 J	4
Benzene	µg/L	9	--	--	0
Bromodichloromethane	µg/L	9	--	--	0
Bromoform	µg/L	9	--	--	0
Bromomethane	µg/L	9	--	--	0
Carbon disulfide	µg/L	9	--	--	0
Carbon tetrachloride	µg/L	9	--	--	0
Chlorobenzene	µg/L	9	--	--	0
Chloroethane	µg/L	9	--	--	0
Chloroform	µg/L	9	0.41 J	0.41 J	1
Chloromethane	µg/L	9	--	--	0

* Data qualifier included with concentration value

Table 4-96
Exposure Unit 1
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
cis-1,2-Dichloroethene	μg/L	8	--	--	0
cis-1,3-Dichloropropene	μg/L	9	--	--	0
Dibromochloromethane	μg/L	9	--	--	0
Ethylbenzene	μg/L	9	0.067 J	0.067 J	1
Methylene chloride	μg/L	9	--	--	0
Styrene	μg/L	9	--	--	0
Tetrachloroethene	μg/L	9	--	--	0
Toluene	μg/L	9	--	--	0
trans-1,2-Dichloroethene	μg/L	8	--	--	0
trans-1,3-Dichloropropene	μg/L	9	--	--	0
Trichloroethene	μg/L	9	--	--	0
Vinyl chloride	μg/L	9	1	1	1
Xylenes (total)	μg/L	9	--	--	0

* Data qualifier included with concentration value

Table 4-97
Exposure Unit 2
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	μg/L	14	30.6 B	529 BN*	7
Antimony, Dissolved	μg/L	14	3 B	6.2 B	5
Arsenic, Dissolved	μg/L	13	2.3 B	11.8	13
Barium, Dissolved	μg/L	14	9.86	258	14
Beryllium, Dissolved	μg/L	14	0.25 B	0.38 B	2
Boron, Dissolved	μg/L	13	24 B	1010	13
Cadmium, Dissolved	μg/L	14	0.27 B	0.36 B	3
Calcium, Dissolved	μg/L	14	49100	410000	14
Chromium, Dissolved	μg/L	14	0.85 B	0.85 B	1
Cobalt, Dissolved	μg/L	14	0.75 B	1.6 B	3
Copper, Dissolved	μg/L	14	1 B	15.4	10
Iron, Dissolved	μg/L	14	4.3 B	385	7
Lead, Dissolved	μg/L	14	0.02 B	0.25 BE	6
Lithium, Dissolved	μg/L	14	2.9 BE	225 E	14
Magnesium, Dissolved	μg/L	14	21600	947000	14
Manganese, Dissolved	μg/L	14	1.55 B	295	14
Mercury, Dissolved	μg/L	14	0.06 B	0.06 B	1
Nickel, Dissolved	μg/L	14	1.4 B	5.6	9
Potassium, Dissolved	μg/L	14	887 E	15500 NE	14
Selenium, Dissolved	μg/L	14	0.73 B	5.5	10
Silver, Dissolved	μg/L	14	0.1 B	0.85 B	10
Sodium, Dissolved	μg/L	14	3780 E	573000 E	14
Thallium, Dissolved	μg/L	14	0.115 BN	0.96	8
Vanadium, Dissolved	μg/L	14	0.74 B	2.1 B	6
Zinc, Dissolved	μg/L	14	5.3	38.3 BE	8
Metals, Total					
Aluminum	μg/L	14	125	48500	12
Antimony	μg/L	14	0.295 B	17.7	5
Arsenic	μg/L	14	3.8 B	38.8 B	13
Barium	μg/L	14	11.5	452	14
Beryllium	μg/L	14	0.37 B	2.1 B	7
Boron	μg/L	14	52	1050	14
Cadmium	μg/L	14	0.24 B	2.8 B	5
Calcium	μg/L	14	61200	627000	14
Chromium	μg/L	14	0.65 B	61.9	10
Cobalt	μg/L	14	2.09 B	32.9	8
Copper	μg/L	14	1.73 B	193	14
Iron	μg/L	14	10.3 B	90200	13
Lead	μg/L	14	0.14 B	34.5 E	13
Lithium	μg/L	14	24.9 B	246 EN	14
Magnesium	μg/L	14	45000	866000	14
Manganese	μg/L	14	2.35 B	7720	14
Mercury	μg/L	14	0.044 B	0.11 B	2

* Data qualifier included with concentration value

Table 4-97
Exposure Unit 2
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	14	1.74 B	76.3	11
Potassium	µg/L	14	2000	21700 EN	14
Selenium	µg/L	14	1.49 B	17.9 B	10
Silver	µg/L	14	0.03 B	0.88 B	9
Sodium	µg/L	14	5020 E	485000 E	14
Thallium	µg/L	14	0.395 B	11.3	6
Vanadium	µg/L	14	4.49 B	111	10
Zinc	µg/L	14	12.8	220	11
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	8	--	--	0
2,4,6-Trinitrotoluene	µg/L	8	--	--	0
2,4-Dinitrotoluene	µg/L	14	--	--	0
2,6-Dinitrotoluene	µg/L	14	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	8	--	--	0
2-Nitrotoluene	µg/L	8	--	--	0
3-Dinitrobenzene	µg/L	8	--	--	0
3-Nitrotoluene	µg/L	8	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	8	--	--	0
4-Nitrotoluene	µg/L	8	--	--	0
HMX	µg/L	8	--	--	0
Nitrobenzene	µg/L	14	--	--	0
RDX	µg/L	8	--	--	0
Tetryl	µg/L	8	--	--	0
PAHs					
Acenaphthene	µg/L	13	--	--	0
Acenaphthylene	µg/L	13	--	--	0
Anthracene	µg/L	13	--	--	0
Benzo(a)anthracene	µg/L	13	0.0226 J	0.0226 J	1
Benzo(a)pyrene	µg/L	13	--	--	0
Benzo(b)fluoranthene	µg/L	13	--	--	0
Benzo(g,h,i)perylene	µg/L	13	--	--	0
Benzo(k)fluoranthene	µg/L	13	0.036	0.036	1
Chrysene	µg/L	13	--	--	0
Dibenzo(a,h)anthracene	µg/L	13	0.0343 J	0.0343 J	1
Fluoranthene	µg/L	13	--	--	0
Fluorene	µg/L	13	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	13	--	--	0
Naphthalene	µg/L	13	--	--	0
Phenanthrene	µg/L	13	--	--	0
Pyrene	µg/L	13	--	--	0
PCBs					
Aroclor-1016	µg/L	7	--	--	0
Aroclor-1221	µg/L	7	--	--	0
Aroclor-1232	µg/L	7	--	--	0

* Data qualifier included with concentration value

Table 4-97
Exposure Unit 2
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	7	--	--	0
Aroclor-1248	µg/L	7	--	--	0
Aroclor-1254	µg/L	7	--	--	0
Aroclor-1260	µg/L	7	--	--	0
Pesticides					
4,4'-DDD	µg/L	7	--	--	0
4,4'-DDE	µg/L	7	--	--	0
4,4'-DDT	µg/L	7	--	--	0
Aldrin	µg/L	7	--	--	0
alpha-BHC	µg/L	7	--	--	0
alpha-Chlordane	µg/L	7	--	--	0
beta-BHC	µg/L	7	--	--	0
delta-BHC	µg/L	7	--	--	0
Dieldrin	µg/L	7	--	--	0
Endosulfan I	µg/L	7	--	--	0
Endosulfan II	µg/L	7	--	--	0
Endosulfan sulfate	µg/L	7	--	--	0
Endrin	µg/L	7	--	--	0
Endrin aldehyde	µg/L	7	--	--	0
Endrin ketone	µg/L	7	--	--	0
gamma-BHC (Lindane)	µg/L	7	--	--	0
gamma-Chlordane	µg/L	7	--	--	0
Heptachlor	µg/L	7	--	--	0
Heptachlor epoxide	µg/L	7	--	--	0
Methoxychlor	µg/L	7	--	--	0
Toxaphene	µg/L	7	--	--	0
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	5	--	--	0
Alpha, Dissolved	pCi/L	3	4.83	25.4	3
Americium-241, Dissolved	pCi/L	5	--	--	0
Beta, Dissolved	pCi/L	3	3.2	22.7	3
Cesium-137, Dissolved	pCi/L	5	--	--	0
Cobalt-60, Dissolved	pCi/L	5	--	--	0
Protactinium-231, Dissolved	pCi/L	5	--	--	0
Radium-226, Dissolved	pCi/L	5	0.45	0.598	2
Radium-228, Dissolved	pCi/L	5	1	1	1
Thorium-228, Dissolved	pCi/L	8	0.318	0.318	1
Thorium-230, Dissolved	pCi/L	5	--	--	0
Thorium-232, Dissolved	pCi/L	5	--	--	0
Total Uranium, Dissolved	µg/L	5	5	38.9	5
Uranium-234, Dissolved	PCI/L	8	2.24	19.1	8
Uranium-235, Dissolved	pCi/L	8	0.211	1.43	6
Uranium-238, Dissolved	pCi/L	8	1.8	15.8	8
Radionuclides, Total					

* Data qualifier included with concentration value

Table 4-97
Exposure Unit 2
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Actinium-227	pCi/L	8	--	--	0
Alpha	pCi/L	17	4.45	105	16
Americium-241	pCi/L	8	--	--	0
Beta	pCi/L	17	4.65	75.2	16
Cesium-137	pCi/L	8	33.5	61.5	2
Cobalt-60	pCi/L	8	--	--	0
Protactinium-231	pCi/L	8	--	--	0
Radium-226	pCi/L	18	0.608	2.33	12
Radium-228	pCi/L	8	--	--	0
Thorium-228	pCi/L	18	0.0832	1.14	10
Thorium-230	pCi/L	18	0.157 J	0.565 J	8
Thorium-232	pCi/L	18	0.0292	0.572 J	9
Total Uranium	μg/L	18	0.446	107	18
Uranium-234	pCi/L	18	0.144	36	18
Uranium-235	pCi/L	18	0.0981 J	1.35	13
Uranium-238	pCi/L	18	0.11	29.2	18
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/L	13	--	--	0
1,2-Dichlorobenzene	μg/L	13	--	--	0
1,3-Dichlorobenzene	μg/L	13	--	--	0
1,4-Dichlorobenzene	μg/L	13	--	--	0
2,4,5-Trichlorophenol	μg/L	13	--	--	0
2,4,6-Trichlorophenol	μg/L	13	--	--	0
2,4-Dichlorophenol	μg/L	13	--	--	0
2,4-Dimethylphenol	μg/L	13	--	--	0
2,4-Dinitrophenol	μg/L	13	--	--	0
2-Chloronaphthalene	μg/L	13	--	--	0
2-Chlorophenol	μg/L	13	--	--	0
2-Methyl-4,6-dinitrophenol	μg/L	26	--	--	0
2-Methylnaphthalene	μg/L	13	--	--	0
2-Nitroaniline	μg/L	13	--	--	0
2-Nitrophenol	μg/L	13	--	--	0
3,3'-Dichlorobenzidine	μg/L	13	--	--	0
3-Nitroaniline	μg/L	13	--	--	0
4-Bromophenylphenylether	μg/L	13	--	--	0
4-Chloro-3-methylphenol	μg/L	13	--	--	0
4-Chloroaniline	μg/L	13	--	--	0
4-Chlorophenylphenylether	μg/L	13	--	--	0
4-Nitroaniline	μg/L	13	--	--	0
4-Nitrophenol	μg/L	13	--	--	0
Benzoic Acid	μg/L	10	--	--	0
bis(2-Chloroethoxy)methane	μg/L	13	--	--	0
bis(2-Chloroethyl)ether	μg/L	13	--	--	0
bis(2-Chloroisopropyl)ether	μg/L	13	--	--	0

* Data qualifier included with concentration value

Table 4-97
Exposure Unit 2
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Ethylhexyl)phthalate	µg/L	13	14.5	276 D	3
Butylbenzylphthalate	µg/L	13	--	--	0
Carbazole	µg/L	13	--	--	0
Dibenzofuran	µg/L	13	--	--	0
Diethylphthalate	µg/L	13	--	--	0
Dimethylphthalate	µg/L	13	--	--	0
Di-n-butylphthalate	µg/L	13	--	--	0
Di-n-octylphthalate	µg/L	13	--	--	0
Diphenylamine	µg/L	10	--	--	0
Hexachlorobenzene	µg/L	13	--	--	0
Hexachlorobutadiene	µg/L	13	--	--	0
Hexachlorocyclopentadiene	µg/L	13	--	--	0
Hexachloroethane	µg/L	13	--	--	0
Isophorone	µg/L	13	--	--	0
m,p-Cresols	µg/L	13	--	--	0
N-Nitroso-di-n-propylamine	µg/L	13	--	--	0
N-Nitrosodiphenylamine	µg/L	3	--	--	0
o-Cresol	µg/L	13	--	--	0
Pentachlorophenol	µg/L	13	--	--	0
Phenol	µg/L	13	2.15 J	2.15 J	1
Volatile Organics					
1,1,1-Trichloroethane	µg/L	12	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	12	--	--	0
1,1,2-Trichloroethane	µg/L	12	--	--	0
1,1-Dichloroethane	µg/L	12	--	--	0
1,1-Dichloroethene	µg/L	12	--	--	0
1,2-Dichloroethane	µg/L	12	--	--	0
1,2-Dichloropropane	µg/L	12	--	--	0
2-Butanone	µg/L	12	1.4 J	4.9 J	2
2-Hexanone	µg/L	12	--	--	0
4-Methyl-2-pentanone	µg/L	12	--	--	0
Acetone	µg/L	12	2.2 J	4.99 J	4
Benzene	µg/L	12	--	--	0
Bromodichloromethane	µg/L	12	--	--	0
Bromoform	µg/L	12	--	--	0
Bromomethane	µg/L	12	--	--	0
Carbon disulfide	µg/L	12	--	--	0
Carbon tetrachloride	µg/L	12	--	--	0
Chlorobenzene	µg/L	12	--	--	0
Chloroethane	µg/L	12	--	--	0
Chloroform	µg/L	12	--	--	0
Chloromethane	µg/L	12	--	--	0
cis-1,2-Dichloroethene	µg/L	12	--	--	0
cis-1,3-Dichloropropene	µg/L	12	--	--	0

* Data qualifier included with concentration value

Table 4-97
Exposure Unit 2
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Dibromochloromethane	μg/L	11	--	--	0
Ethylbenzene	μg/L	12	--	--	0
Methylene chloride	μg/L	12	--	--	0
Styrene	μg/L	12	--	--	0
Tetrachloroethene	μg/L	12	1.7	1.7	1
Toluene	μg/L	12	0.429 J	0.429 J	1
trans-1,2-Dichloroethene	μg/L	12	--	--	0
trans-1,3-Dichloropropene	μg/L	12	--	--	0
Trichloroethene	μg/L	12	--	--	0
Vinyl chloride	μg/L	12	1.3	1.3	1
Xylenes (total)	μg/L	12	--	--	0

* Data qualifier included with concentration value

Table 4-98
Exposure Unit 3
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	3	18.3 B	744 N	3
Antimony, Dissolved	µg/L	3	2.5 J	4.7 B	2
Arsenic, Dissolved	µg/L	3	1 B	6.6 J	3
Barium, Dissolved	µg/L	3	18.8	82	3
Beryllium, Dissolved	µg/L	3	--	--	0
Boron, Dissolved	µg/L	3	75.7 J	227	3
Cadmium, Dissolved	µg/L	3	0.36 B	0.36 B	1
Calcium, Dissolved	µg/L	3	130000	576000	3
Chromium, Dissolved	µg/L	3	--	--	0
Cobalt, Dissolved	µg/L	3	--	--	0
Copper, Dissolved	µg/L	3	2.1 B	5.4	2
Iron, Dissolved	µg/L	3	61.9	18500	3
Lead, Dissolved	µg/L	3	0.13 B	1.5 J	3
Lithium, Dissolved	µg/L	3	4 J	94.2 E	2
Magnesium, Dissolved	µg/L	3	44800	262000	3
Manganese, Dissolved	µg/L	3	272	1430	3
Mercury, Dissolved	µg/L	3	0.09 B	0.09 B	1
Nickel, Dissolved	µg/L	3	2.5 B	3.3 B	2
Potassium, Dissolved	µg/L	3	912 J	6670 NE	3
Selenium, Dissolved	µg/L	3	1.6 B	7.7 J	2
Silver, Dissolved	µg/L	3	0.09 B	0.94 B	2
Sodium, Dissolved	µg/L	3	24300	179000 E	3
Thallium, Dissolved	µg/L	3	0.05 B	2.4 B	2
Vanadium, Dissolved	µg/L	3	0.88 B	1.5 B	2
Zinc, Dissolved	µg/L	3	1 B	1 B	1
Metals, Total					
Aluminum	µg/L	3	3660	5880 N	3
Antimony	µg/L	3	2.8 J	2.8 J	1
Arsenic	µg/L	3	3.9 B	14.5	3
Barium	µg/L	3	45.6 J	118	3
Beryllium	µg/L	3	0.19 B	0.19 B	1
Boron	µg/L	3	133	198	3
Cadmium	µg/L	3	0.35 B	0.35 B	1
Calcium	µg/L	3	148000	576000 J	3
Chromium	µg/L	3	3.6 B	7.5	3
Cobalt	µg/L	3	1.1 B	2.9 B	2
Copper	µg/L	3	10.3	25.5	2
Iron	µg/L	3	3560	29000 J	3
Lead	µg/L	3	0.38 B	25.3	3
Lithium	µg/L	3	2.7 B	111 E	3
Magnesium	µg/L	3	44100	277000	3
Manganese	µg/L	3	556	1520 *	3
Mercury	µg/L	3	0.07 B	0.07 B	1

* Data qualifier included with concentration value

Table 4-98
Exposure Unit 3
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	3	10.1	10.1	1
Potassium	µg/L	3	1910 *	6290 NE	3
Selenium	µg/L	3	1.5 B	14.3 B	3
Silver	µg/L	3	0.36 B	0.36 B	1
Sodium	µg/L	3	19000 J	161000 E	3
Thallium	µg/L	3	2.1 B	2.1 B	1
Vanadium	µg/L	3	6.1	12.2	2
Zinc	µg/L	3	39.9 E	216	2
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	3	--	--	0
2,4,6-Trinitrotoluene	µg/L	3	--	--	0
2,4-Dinitrotoluene	µg/L	3	--	--	0
2,6-Dinitrotoluene	µg/L	3	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	3	--	--	0
2-Nitrotoluene	µg/L	3	--	--	0
3-Dinitrobenzene	µg/L	3	--	--	0
3-Nitrotoluene	µg/L	3	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	3	--	--	0
4-Nitrotoluene	µg/L	3	--	--	0
HMX	µg/L	3	--	--	0
Nitrobenzene	µg/L	3	--	--	0
RDX	µg/L	3	--	--	0
Tetryl	µg/L	3	--	--	0
PAHs					
Acenaphthene	µg/L	3	0.5	0.5	1
Acenaphthylene	µg/L	3	--	--	0
Anthracene	µg/L	3	0.05	0.05	1
Benzo(a)anthracene	µg/L	3	--	--	0
Benzo(a)pyrene	µg/L	3	--	--	0
Benzo(b)fluoranthene	µg/L	3	--	--	0
Benzo(g,h,i)perylene	µg/L	3	--	--	0
Benzo(k)fluoranthene	µg/L	3	--	--	0
Chrysene	µg/L	3	--	--	0
Dibenzo(a,h)anthracene	µg/L	3	--	--	0
Fluoranthene	µg/L	3	0.35	0.35	1
Fluorene	µg/L	3	0.15	0.15	1
Indeno(1,2,3-cd)pyrene	µg/L	3	--	--	0
Naphthalene	µg/L	3	--	--	0
Phenanthrene	µg/L	3	0.05	0.05	1
Pyrene	µg/L	3	0.2	0.2	1
PCBs					
Aroclor-1016	µg/L	1	--	--	0
Aroclor-1221	µg/L	1	--	--	0
Aroclor-1232	µg/L	1	--	--	0

* Data qualifier included with concentration value

Table 4-98
Exposure Unit 3
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	1	--	--	0
Aroclor-1248	µg/L	1	--	--	0
Aroclor-1254	µg/L	1	--	--	0
Aroclor-1260	µg/L	1	--	--	0
Pesticides					
4,4'-DDD	µg/L	1	--	--	0
4,4'-DDE	µg/L	1	--	--	0
4,4'-DDT	µg/L	1	--	--	0
Aldrin	µg/L	1	--	--	0
alpha-BHC	µg/L	1	--	--	0
alpha-Chlordane	µg/L	1	--	--	0
beta-BHC	µg/L	1	--	--	0
delta-BHC	µg/L	1	--	--	0
Dieldrin	µg/L	1	--	--	0
Endosulfan I	µg/L	1	--	--	0
Endosulfan II	µg/L	1	--	--	0
Endosulfan sulfate	µg/L	1	--	--	0
Endrin	µg/L	1	--	--	0
Endrin aldehyde	µg/L	1	--	--	0
Endrin ketone	µg/L	1	--	--	0
gamma-BHC (Lindane)	µg/L	1	--	--	0
gamma-Chlordane	µg/L	1	--	--	0
Heptachlor	µg/L	1	--	--	0
Heptachlor epoxide	µg/L	2	0.016 J	0.016 J	1
Methoxychlor	µg/L	1	--	--	0
Toxaphene	µg/L	1	--	--	0
Radionuclides, Total					
Alpha	pCi/L	2	20.3	22	2
Beta	pCi/L	2	12	30.3	2
Radium-226	pCi/L	2	--	--	0
Thorium-228	pCi/L	2	0.36 J	0.36 J	1
Thorium-230	pCi/L	2	0.156 J	0.156 J	1
Thorium-232	pCi/L	2	0.0889 J	0.0889 J	1
Total Uranium	µg/L	2	15.8	23.2	2
Uranium-234	pCi/L	2	6.38	8.34	2
Uranium-235	pCi/L	2	0.393 J	0.657	2
Uranium-238	pCi/L	2	5.05	8.28	2
Semivolatile Organics					
1,2,4-Trichlorobenzene	µg/L	3	--	--	0
1,2-Dichlorobenzene	µg/L	3	--	--	0
1,3-Dichlorobenzene	µg/L	3	--	--	0
1,4-Dichlorobenzene	µg/L	3	--	--	0
2,4,5-Trichlorophenol	µg/L	3	--	--	0
2,4,6-Trichlorophenol	µg/L	3	--	--	0

* Data qualifier included with concentration value

Table 4-98
Exposure Unit 3
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
2,4-Dichlorophenol	µg/L	3	--	--	0
2,4-Dimethylphenol	µg/L	3	--	--	0
2,4-Dinitrophenol	µg/L	3	--	--	0
2-Chloronaphthalene	µg/L	3	--	--	0
2-Chlorophenol	µg/L	3	--	--	0
2-Methyl-4,6-dinitrophenol	µg/L	6	--	--	0
2-Methylnaphthalene	µg/L	2	--	--	0
2-Nitroaniline	µg/L	3	--	--	0
2-Nitrophenol	µg/L	3	--	--	0
3,3'-Dichlorobenzidine	µg/L	3	--	--	0
3-Nitroaniline	µg/L	3	--	--	0
4-Bromophenylphenylether	µg/L	3	--	--	0
4-Chloro-3-methylphenol	µg/L	3	--	--	0
4-Chloroaniline	µg/L	3	--	--	0
4-Chlorophenylphenylether	µg/L	3	--	--	0
4-Nitroaniline	µg/L	3	--	--	0
4-Nitrophenol	µg/L	3	--	--	0
Benzoic Acid	µg/L	2	--	--	0
bis(2-Chloroethoxy)methane	µg/L	3	--	--	0
bis(2-Chloroethyl)ether	µg/L	3	--	--	0
bis(2-Chloroisopropyl)ether	µg/L	3	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	3	--	--	0
Butylbenzylphthalate	µg/L	3	--	--	0
Carbazole	µg/L	3	--	--	0
Dibenzofuran	µg/L	3	--	--	0
Diethylphthalate	µg/L	3	--	--	0
Dimethylphthalate	µg/L	3	--	--	0
Di-n-butylphthalate	µg/L	3	--	--	0
Di-n-octylphthalate	µg/L	3	--	--	0
Diphenylamine	µg/L	2	--	--	0
Hexachlorobenzene	µg/L	3	--	--	0
Hexachlorobutadiene	µg/L	3	--	--	0
Hexachlorocyclopentadiene	µg/L	3	--	--	0
Hexachloroethane	µg/L	3	--	--	0
Isophorone	µg/L	3	--	--	0
m,p-Cresols	µg/L	2	--	--	0
N-Nitroso-di-n-propylamine	µg/L	3	--	--	0
N-Nitrosodiphenylamine	µg/L	1	--	--	0
o-Cresol	µg/L	3	--	--	0
p-Cresol	µg/L	1	--	--	0
Pentachlorophenol	µg/L	3	--	--	0
Phenol	µg/L	3	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/L	2	--	--	0

* Data qualifier included with concentration value

Table 4-98
Exposure Unit 3
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
1,1,2,2-Tetrachloroethane	µg/L	2	--	--	0
1,1,2-Trichloroethane	µg/L	2	--	--	0
1,1-Dichloroethane	µg/L	2	--	--	0
1,1-Dichloroethene	µg/L	2	--	--	0
1,2-Dichloroethane	µg/L	2	--	--	0
1,2-Dichloroethene	µg/L	1	--	--	0
1,2-Dichloropropane	µg/L	2	--	--	0
2-Butanone	µg/L	1	--	--	0
2-Hexanone	µg/L	2	--	--	0
4-Methyl-2-pentanone	µg/L	1	--	--	0
Acetone	µg/L	2	6 J	6 J	1
Benzene	µg/L	2	--	--	0
Bromodichloromethane	µg/L	2	--	--	0
Bromoform	µg/L	2	--	--	0
Bromomethane	µg/L	2	--	--	0
Carbon disulfide	µg/L	2	0.4 J	0.4 J	1
Carbon tetrachloride	µg/L	2	--	--	0
Chlorobenzene	µg/L	2	--	--	0
Chloroethane	µg/L	2	--	--	0
Chloroform	µg/L	2	--	--	0
Chloromethane	µg/L	2	--	--	0
cis-1,2-Dichloroethene	µg/L	1	--	--	0
cis-1,3-Dichloropropene	µg/L	2	--	--	0
Dibromochloromethane	µg/L	2	--	--	0
Ethylbenzene	µg/L	2	--	--	0
Methylene chloride	µg/L	2	--	--	0
Styrene	µg/L	2	--	--	0
Tetrachloroethene	µg/L	2	--	--	0
Toluene	µg/L	2	--	--	0
trans-1,2-Dichloroethene	µg/L	1	--	--	0
trans-1,3-Dichloropropene	µg/L	2	--	--	0
Trichloroethene	µg/L	2	--	--	0
Vinyl chloride	µg/L	2	--	--	0
Xylenes (total)	µg/L	2	--	--	0

* Data qualifier included with concentration value

Table 4-99
Exposure Unit 4
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	9	28.1 B	634	5
Antimony, Dissolved	µg/L	9	0.164 B	0.677 B	2
Arsenic, Dissolved	µg/L	9	0.59 B	6.8 B	8
Barium, Dissolved	µg/L	9	6.62	62.4	9
Beryllium, Dissolved	µg/L	9	--	--	0
Boron, Dissolved	µg/L	9	141	26600	9
Cadmium, Dissolved	µg/L	9	--	--	0
Calcium, Dissolved	µg/L	9	91600	266000	9
Chromium, Dissolved	µg/L	9	0.64 B	1.47 B	2
Cobalt, Dissolved	µg/L	9	0.69 B	6.64	5
Copper, Dissolved	µg/L	9	1.66 B	12.2	7
Iron, Dissolved	µg/L	9	3.3 B	586	5
Lead, Dissolved	µg/L	9	0.071 B	0.41 B	4
Lithium, Dissolved	µg/L	9	5.93 B	99.4 B	9
Magnesium, Dissolved	µg/L	9	42400	282000	9
Manganese, Dissolved	µg/L	9	2.2 B	3350	9
Mercury, Dissolved	µg/L	9	0.06 B	0.07 B	2
Nickel, Dissolved	µg/L	9	1.1 B	195	6
Potassium, Dissolved	µg/L	9	1190	8120	9
Selenium, Dissolved	µg/L	9	0.78 B	9.4 B	7
Silver, Dissolved	µg/L	9	0.007 B	0.86 B	6
Sodium, Dissolved	µg/L	9	8800 E	168000	9
Thallium, Dissolved	µg/L	9	0.04 B	0.04 B	1
Vanadium, Dissolved	µg/L	9	1 B	19.2	3
Zinc, Dissolved	µg/L	9	1.44 B	69	5
Metals, Total					
Aluminum	µg/L	10	51.7	410000	9
Antimony	µg/L	10	0.11 B	2.3 B	3
Arsenic	µg/L	10	3.4 B	40.1 E	7
Barium	µg/L	10	8.15	3100	10
Beryllium	µg/L	10	0.18 B	20.4 B	5
Boron	µg/L	10	144	28700	10
Cadmium	µg/L	10	0.74 B	0.74 B	1
Calcium	µg/L	10	86900	2350000	10
Chromium	µg/L	10	1.53 B	620	8
Cobalt	µg/L	10	1.5 B	341	9
Copper	µg/L	10	6.8	1440	10
Iron	µg/L	10	54 B	802000	10
Lead	µg/L	10	0.225 B	37.3	9
Lithium	µg/L	10	14.2 B	255	10
Magnesium	µg/L	10	42100	680000	10
Manganese	µg/L	10	41.8	36500	10
Mercury	µg/L	10	0.06 B	0.06 B	2

* Data qualifier included with concentration value

Table 4-99
Exposure Unit 4
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	10	1.51 B	762	9
Potassium	µg/L	10	2080 E	75300	10
Selenium	µg/L	10	1.3 B	12 B	8
Silver	µg/L	10	0.009 B	0.99 B	8
Sodium	µg/L	10	8150 E	159000	10
Thallium	µg/L	10	0.016 B	0.024 B	2
Vanadium	µg/L	10	2.27 B	875	9
Zinc	µg/L	10	3.16 B	1900	9
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	10	--	--	0
2,4,6-Trinitrotoluene	µg/L	10	--	--	0
2,4-Dinitrotoluene	µg/L	15	--	--	0
2,6-Dinitrotoluene	µg/L	15	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	10	--	--	0
2-Nitrotoluene	µg/L	10	--	--	0
3-Dinitrobenzene	µg/L	10	--	--	0
3-Nitrotoluene	µg/L	10	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	10	--	--	0
4-Nitrotoluene	µg/L	10	--	--	0
HMX	µg/L	10	--	--	0
Nitrobenzene	µg/L	15	--	--	0
RDX	µg/L	10	--	--	0
Tetryl	µg/L	10	--	--	0
PAHs					
Acenaphthene	µg/L	14	--	--	0
Acenaphthylene	µg/L	14	--	--	0
Anthracene	µg/L	14	1.06 J	1.06 J	1
Benzo(a)anthracene	µg/L	14	--	--	0
Benzo(a)pyrene	µg/L	14	--	--	0
Benzo(b)fluoranthene	µg/L	14	--	--	0
Benzo(g,h,i)perylene	µg/L	14	--	--	0
Benzo(k)fluoranthene	µg/L	14	--	--	0
Chrysene	µg/L	14	--	--	0
Dibenzo(a,h)anthracene	µg/L	14	--	--	0
Fluoranthene	µg/L	14	3.27	3.27	1
Fluorene	µg/L	14	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	14	--	--	0
Naphthalene	µg/L	14	0.416 J	0.416 J	1
Phenanthrene	µg/L	14	0.626	6.93	2
Pyrene	µg/L	14	1.93	1.93	1
PCBs					
Aroclor-1016	µg/L	9	--	--	0
Aroclor-1221	µg/L	9	--	--	0
Aroclor-1232	µg/L	9	--	--	0

* Data qualifier included with concentration value

Table 4-99
Exposure Unit 4
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	9	--	--	0
Aroclor-1248	µg/L	9	--	--	0
Aroclor-1254	µg/L	9	--	--	0
Aroclor-1260	µg/L	9	--	--	0
Pesticides					
4,4'-DDD	µg/L	9	--	--	0
4,4'-DDE	µg/L	9	0.0323 J	0.0323 J	1
4,4'-DDT	µg/L	9	0.078 P	0.078 P	1
Aldrin	µg/L	9	--	--	0
alpha-BHC	µg/L	9	--	--	0
alpha-Chlordane	µg/L	9	--	--	0
beta-BHC	µg/L	9	--	--	0
delta-BHC	µg/L	9	--	--	0
Dieldrin	µg/L	9	--	--	0
Endosulfan I	µg/L	9	--	--	0
Endosulfan II	µg/L	9	--	--	0
Endosulfan sulfate	µg/L	9	--	--	0
Endrin	µg/L	9	--	--	0
Endrin aldehyde	µg/L	9	--	--	0
Endrin ketone	µg/L	9	--	--	0
gamma-BHC (Lindane)	µg/L	9	--	--	0
gamma-Chlordane	µg/L	9	--	--	0
Heptachlor	µg/L	9	--	--	0
Heptachlor epoxide	µg/L	9	--	--	0
Methoxychlor	µg/L	9	--	--	0
Toxaphene	µg/L	9	--	--	0
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	9	--	--	0
Alpha, Dissolved	pCi/L	3	6.4	12.8	3
Americium-241, Dissolved	pCi/L	9	--	--	0
Beta, Dissolved	pCi/L	3	7.51	12.4	2
Cesium-137, Dissolved	pCi/L	9	--	--	0
Cobalt-60, Dissolved	pCi/L	9	--	--	0
Protactinium-231, Dissolved	pCi/L	9	--	--	0
Radium-226, Dissolved	pCi/L	9	0.684	0.686	2
Radium-228, Dissolved	pCi/L	9	--	--	0
Thorium-228, Dissolved	pCi/L	13	0.228	0.228	1
Thorium-230, Dissolved	pCi/L	9	0.132	0.644	4
Thorium-232, Dissolved	pCi/L	9	--	--	0
Total Activity, Dissolved	pCi/mL	1	--	--	0
Total Uranium, Dissolved	µg/L	9	7.51	35.9	9
Uranium-234, Dissolved	pCi/L	13	3.07	12.2	13
Uranium-235, Dissolved	pCi/L	13	0.0933	0.831	10
Uranium-238, Dissolved	pCi/L	13	2.35	8.99	12

* Data qualifier included with concentration value

Table 4-99
Exposure Unit 4
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides, Total					
Actinium-227	pCi/L	12	--	--	0
Alpha	pCi/L	16	6.94	39.9	16
Americium-241	pCi/L	12	--	--	0
Beta	pCi/L	16	4.07	47.3	16
Cesium-137	pCi/L	12	4.48	4.48	1
Cobalt-60	pCi/L	12	--	--	0
Protactinium-231	pCi/L	12	--	--	0
Radium-226	pCi/L	16	0.736 J	10.7	5
Radium-228	pCi/L	12	70.4	70.4	1
Thorium-228	pCi/L	16	0.225	3.85	9
Thorium-230	pCi/L	16	0.119 J	2.15	10
Thorium-232	pCi/L	16	0.0637	2.12	12
Total Activity	pCi/mL	1	--	--	0
Total Uranium	μg/L	16	8.02	33.3	16
Uranium-234	pCi/L	16	3.29	13.3	16
Uranium-235	pCi/L	16	0.181 J	0.988	15
Uranium-238	pCi/L	16	2.58	10.4	16
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/L	14	--	--	0
1,2-Dichlorobenzene	μg/L	14	--	--	0
1,3-Dichlorobenzene	μg/L	14	--	--	0
1,4-Dichlorobenzene	μg/L	14	--	--	0
2,4,5-Trichlorophenol	μg/L	14	--	--	0
2,4,6-Trichlorophenol	μg/L	14	--	--	0
2,4-Dichlorophenol	μg/L	14	--	--	0
2,4-Dimethylphenol	μg/L	14	--	--	0
2,4-Dinitrophenol	μg/L	14	--	--	0
2-Chloronaphthalene	μg/L	14	--	--	0
2-Chlorophenol	μg/L	14	--	--	0
2-Methyl-4,6-dinitrophenol	μg/L	28	--	--	0
2-Methylnaphthalene	μg/L	14	--	--	0
2-Nitroaniline	μg/L	14	--	--	0
2-Nitrophenol	μg/L	14	--	--	0
3,3'-Dichlorobenzidine	μg/L	14	--	--	0
3-Nitroaniline	μg/L	14	--	--	0
4-Bromophenylphenylether	μg/L	14	--	--	0
4-Chloro-3-methylphenol	μg/L	14	--	--	0
4-Chloroaniline	μg/L	14	--	--	0
4-Chlorophenylphenylether	μg/L	14	--	--	0
4-Nitroaniline	μg/L	14	--	--	0
4-Nitrophenol	μg/L	14	--	--	0
Benzoic Acid	μg/L	10	--	--	0
bis(2-Chloroethoxy)methane	μg/L	14	--	--	0

* Data qualifier included with concentration value

Table 4-99
Exposure Unit 4
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethyl)ether	µg/L	14	--	--	0
bis(2-Chloroisopropyl)ether	µg/L	14	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	14	3.61 J	24	3
Butylbenzylphthalate	µg/L	14	--	--	0
Carbazole	µg/L	14	6.11 J	6.11 J	1
Dibenzofuran	µg/L	14	--	--	0
Diethylphthalate	µg/L	14	--	--	0
Dimethylphthalate	µg/L	14	--	--	0
Di-n-butylphthalate	µg/L	14	30.1	30.1	1
Di-n-octylphthalate	µg/L	14	--	--	0
Diphenylamine	µg/L	10	--	--	0
Hexachlorobenzene	µg/L	14	--	--	0
Hexachlorobutadiene	µg/L	14	--	--	0
Hexachlorocyclopentadiene	µg/L	14	--	--	0
Hexachloroethane	µg/L	14	--	--	0
Isophorone	µg/L	14	28.7	28.7	1
m,p-Cresols	µg/L	14	--	--	0
N-Nitroso-di-n-propylamine	µg/L	14	--	--	0
N-Nitrosodiphenylamine	µg/L	4	--	--	0
o-Cresol	µg/L	14	--	--	0
Pentachlorophenol	µg/L	14	--	--	0
Phenol	µg/L	14	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/L	15	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	15	--	--	0
1,1,2-Trichloroethane	µg/L	15	4.29	4.29	1
1,1-Dichloroethane	µg/L	15	--	--	0
1,1-Dichloroethene	µg/L	15	38.9	38.9	1
1,2-Dichloroethane	µg/L	15	--	--	0
1,2-Dichloropropane	µg/L	15	--	--	0
2-Butanone	µg/L	15	19.5	25	2
2-Hexanone	µg/L	15	--	--	0
4-Methyl-2-pentanone	µg/L	15	8.56	8.56	1
Acetone	µg/L	15	1.4 J	157	8
Benzene	µg/L	15	1.65	2.28	2
Bromodichloromethane	µg/L	15	--	--	0
Bromoform	µg/L	15	--	--	0
Bromomethane	µg/L	15	--	--	0
Carbon disulfide	µg/L	15	3.91 J	3.91 J	1
Carbon tetrachloride	µg/L	15	--	--	0
Chlorobenzene	µg/L	15	--	--	0
Chloroethane	µg/L	15	--	--	0
Chloroform	µg/L	15	1.37	1.37	1
Chloromethane	µg/L	15	--	--	0

* Data qualifier included with concentration value

Table 4-99
Exposure Unit 4
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
cis-1,2-Dichloroethene	µg/L	15	0.87 J	14800	8
cis-1,3-Dichloropropene	µg/L	15	--	--	0
Dibromochloromethane	µg/L	15	--	--	0
Ethylbenzene	µg/L	15	0.36 J	0.36 J	1
Methylene chloride	µg/L	15	2.59 J	1680 JB	2
Styrene	µg/L	15	0.398 J	0.398 J	1
Tetrachloroethene	µg/L	15	11.2	103000 D	7
Toluene	µg/L	15	0.59 J	1.37	2
trans-1,2-Dichloroethene	µg/L	15	0.25 J	355 J	5
trans-1,3-Dichloropropene	µg/L	15	--	--	0
Trichloroethene	µg/L	15	1.27	21200 D	7
Vinyl chloride	µg/L	15	0.68 J	2100	5
Xylenes (total)	µg/L	15	2.04	2.04	1

* Data qualifier included with concentration value

Table 4-100
Exposure Unit 5
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	9	7.8 B	96.2	7
Antimony, Dissolved	µg/L	9	0.072 B	7.62 B	6
Arsenic, Dissolved	µg/L	9	1.6 B	11.6	8
Barium, Dissolved	µg/L	9	7.1	34.6	9
Beryllium, Dissolved	µg/L	9	0.18 B	11.2	3
Boron, Dissolved	µg/L	9	197	1210	9
Cadmium, Dissolved	µg/L	9	0.67 B	11.6	2
Calcium, Dissolved	µg/L	9	61100	224000	9
Chromium, Dissolved	µg/L	9	1 B	11.6	4
Cobalt, Dissolved	µg/L	9	0.85 B	11.7	3
Copper, Dissolved	µg/L	9	3.6 B	9.71	3
Iron, Dissolved	µg/L	9	9.6 B	360	5
Lead, Dissolved	µg/L	9	0.117 B	0.16 B	2
Lithium, Dissolved	µg/L	9	14.8 EN	120 N	9
Magnesium, Dissolved	µg/L	9	67300	162000 E	9
Manganese, Dissolved	µg/L	9	1.27 B	265	9
Mercury, Dissolved	µg/L	9	0.09 B	0.09 B	1
Nickel, Dissolved	µg/L	9	2.3 B	10	3
Potassium, Dissolved	µg/L	9	1610	13600	9
Selenium, Dissolved	µg/L	9	0.4 B	15.1	7
Silver, Dissolved	µg/L	9	0.08 B	0.67 B	7
Sodium, Dissolved	µg/L	9	24000	266000	9
Thallium, Dissolved	µg/L	9	0.006 B	0.386 BN	5
Vanadium, Dissolved	µg/L	9	0.67 B	10.9	4
Zinc, Dissolved	µg/L	9	2.2 B	8.01	6
Metals, Total					
Aluminum	µg/L	9	21.5 B	39500	9
Antimony	µg/L	9	0.29 B	3.68 B	5
Arsenic	µg/L	9	3 B	13.9	8
Barium	µg/L	9	7.2	420	9
Beryllium	µg/L	9	0.76 B	1.68 B	3
Boron	µg/L	9	208	1260 E	9
Cadmium	µg/L	9	0.29 B	0.872 B	2
Calcium	µg/L	9	79100	291000	9
Chromium	µg/L	9	0.71 B	50.6	7
Cobalt	µg/L	9	9.4	29.8	3
Copper	µg/L	9	3.3 B	211	4
Iron	µg/L	9	105	67200	9
Lead	µg/L	9	0.083 B	7.8 BE	6
Lithium	µg/L	9	49.3 EN	133	9
Magnesium	µg/L	9	68200	170000	9
Manganese	µg/L	9	4.9 B	2270	9
Mercury	µg/L	9	0.08 B	0.08 B	1

* Data qualifier included with concentration value

Table 4-100
Exposure Unit 5
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	9	1.82 B	65.4	5
Potassium	µg/L	9	1750	12800	9
Selenium	µg/L	9	0.783 B	16.4 B	7
Silver	µg/L	9	0.009 B	2 B	8
Sodium	µg/L	9	27200	268000	9
Thallium	µg/L	9	0.052 BN	0.85 BN	2
Vanadium	µg/L	9	0.64 B	77.4	4
Zinc	µg/L	9	1.9 B	152	7
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	2	--	--	0
2,4,6-Trinitrotoluene	µg/L	2	--	--	0
2,4-Dinitrotoluene	µg/L	7	--	--	0
2,6-Dinitrotoluene	µg/L	7	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	2	--	--	0
2-Nitrotoluene	µg/L	2	--	--	0
3-Dinitrobenzene	µg/L	2	--	--	0
3-Nitrotoluene	µg/L	2	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	2	--	--	0
4-Nitrotoluene	µg/L	2	--	--	0
HMX	µg/L	2	--	--	0
Nitrobenzene	µg/L	7	--	--	0
RDX	µg/L	2	--	--	0
Tetryl	µg/L	2	--	--	0
PAHs					
Acenaphthene	µg/L	7	--	--	0
Acenaphthylene	µg/L	7	--	--	0
Anthracene	µg/L	7	--	--	0
Benzo(a)anthracene	µg/L	7	--	--	0
Benzo(a)pyrene	µg/L	7	--	--	0
Benzo(b)fluoranthene	µg/L	7	--	--	0
Benzo(g,h,i)perylene	µg/L	7	--	--	0
Benzo(k)fluoranthene	µg/L	7	--	--	0
Chrysene	µg/L	7	--	--	0
Dibenzo(a,h)anthracene	µg/L	7	--	--	0
Fluoranthene	µg/L	7	--	--	0
Fluorene	µg/L	7	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	7	--	--	0
Naphthalene	µg/L	7	--	--	0
Phenanthrene	µg/L	7	--	--	0
Pyrene	µg/L	7	--	--	0
PCBs					
Aroclor-1016	µg/L	2	--	--	0
Aroclor-1221	µg/L	2	--	--	0
Aroclor-1232	µg/L	2	--	--	0

* Data qualifier included with concentration value

Table 4-100
Exposure Unit 5
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	2	--	--	0
Aroclor-1248	µg/L	2	--	--	0
Aroclor-1254	µg/L	2	--	--	0
Aroclor-1260	µg/L	2	--	--	0
Pesticides					
4,4'-DDD	µg/L	2	--	--	0
4,4'-DDE	µg/L	2	--	--	0
4,4'-DDT	µg/L	2	0.0244 J	0.0244 J	1
Aldrin	µg/L	2	--	--	0
alpha-BHC	µg/L	2	--	--	0
alpha-Chlordane	µg/L	2	--	--	0
beta-BHC	µg/L	2	--	--	0
delta-BHC	µg/L	2	--	--	0
Dieldrin	µg/L	2	--	--	0
Endosulfan I	µg/L	2	--	--	0
Endosulfan II	µg/L	2	--	--	0
Endosulfan sulfate	µg/L	2	--	--	0
Endrin	µg/L	2	--	--	0
Endrin aldehyde	µg/L	2	--	--	0
Endrin ketone	µg/L	2	--	--	0
gamma-BHC (Lindane)	µg/L	2	--	--	0
gamma-Chlordane	µg/L	2	--	--	0
Heptachlor	µg/L	2	--	--	0
Heptachlor epoxide	µg/L	2	--	--	0
Methoxychlor	µg/L	2	--	--	0
Toxaphene	µg/L	2	--	--	0
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	4	--	--	0
Alpha, Dissolved	pCi/L	1	5.94	5.94	1
Americium-241, Dissolved	pCi/L	4	--	--	0
Beta, Dissolved	pCi/L	1	1.96	1.96	1
Cesium-137, Dissolved	pCi/L	4	--	--	0
Cobalt-60, Dissolved	pCi/L	4	--	--	0
Protactinium-231, Dissolved	pCi/L	4	--	--	0
Radium-226, Dissolved	pCi/L	4	--	--	0
Radium-228, Dissolved	pCi/L	4	--	--	0
Thorium-228, Dissolved	pCi/L	4	--	--	0
Thorium-230, Dissolved	pCi/L	4	--	--	0
Thorium-232, Dissolved	pCi/L	4	--	--	0
Total Uranium, Dissolved	µg/L	4	10.6	12.4	4
Uranium-234, Dissolved	pCi/L	4	4.56	5.84	4
Uranium-235, Dissolved	pCi/L	4	0.121	0.293	4
Uranium-238, Dissolved	pCi/L	4	3.77	4.41	4
Radionuclides, Total					

* Data qualifier included with concentration value

Table 4-100
Exposure Unit 5
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Actinium-227	pCi/L	4	--	--	0
Alpha	pCi/L	9	0.525	18.8	8
Americium-241	pCi/L	4	--	--	0
Beta	pCi/L	9	6.62	11.7	7
Cesium-137	pCi/L	4	--	--	0
Cobalt-60	pCi/L	4	--	--	0
Protactinium-231	pCi/L	4	--	--	0
Radium-226	pCi/L	9	0.895	3.28	4
Radium-228	pCi/L	4	--	--	0
Thorium-228	pCi/L	9	0.225 J	0.934	4
Thorium-230	pCi/L	9	0.0512 J	0.77	5
Thorium-232	pCi/L	9	0.269 J	0.547	3
Total Uranium	μg/L	9	0.497 J	14.5	9
Uranium-234	pCi/L	9	0.257 J	6.49	9
Uranium-235	pCi/L	9	0.0512	1.24	5
Uranium-238	pCi/L	9	0.209 J	4.87	9
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/L	7	--	--	0
1,2-Dichlorobenzene	μg/L	7	--	--	0
1,3-Dichlorobenzene	μg/L	7	--	--	0
1,4-Dichlorobenzene	μg/L	7	--	--	0
2,4,5-Trichlorophenol	μg/L	7	--	--	0
2,4,6-Trichlorophenol	μg/L	7	--	--	0
2,4-Dichlorophenol	μg/L	7	--	--	0
2,4-Dimethylphenol	μg/L	7	--	--	0
2,4-Dinitrophenol	μg/L	7	--	--	0
2-Chloronaphthalene	μg/L	7	--	--	0
2-Chlorophenol	μg/L	7	--	--	0
2-Methyl-4,6-dinitrophenol	μg/L	14	--	--	0
2-Methylnaphthalene	μg/L	7	--	--	0
2-Nitroaniline	μg/L	7	--	--	0
2-Nitrophenol	μg/L	7	--	--	0
3,3'-Dichlorobenzidine	μg/L	7	--	--	0
3-Nitroaniline	μg/L	7	--	--	0
4-Bromophenylphenylether	μg/L	7	--	--	0
4-Chloro-3-methylphenol	μg/L	7	--	--	0
4-Chloroaniline	μg/L	7	--	--	0
4-Chlorophenylphenylether	μg/L	7	--	--	0
4-Nitroaniline	μg/L	7	--	--	0
4-Nitrophenol	μg/L	7	--	--	0
Benzoic Acid	μg/L	6	--	--	0
bis(2-Chloroethoxy)methane	μg/L	7	--	--	0
bis(2-Chloroethyl)ether	μg/L	7	--	--	0
bis(2-Chloroisopropyl)ether	μg/L	7	--	--	0

* Data qualifier included with concentration value

Table 4-100
Exposure Unit 5
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Ethylhexyl)phthalate	µg/L	7	--	--	0
Butylbenzylphthalate	µg/L	7	--	--	0
Carbazole	µg/L	7	--	--	0
Dibenzofuran	µg/L	7	--	--	0
Diethylphthalate	µg/L	7	--	--	0
Dimethylphthalate	µg/L	7	--	--	0
Di-n-butylphthalate	µg/L	7	--	--	0
Di-n-octylphthalate	µg/L	7	--	--	0
Diphenylamine	µg/L	6	--	--	0
Hexachlorobenzene	µg/L	7	--	--	0
Hexachlorobutadiene	µg/L	7	--	--	0
Hexachlorocyclopentadiene	µg/L	7	--	--	0
Hexachloroethane	µg/L	7	--	--	0
Isophorone	µg/L	7	--	--	0
m,p-Cresols	µg/L	7	--	--	0
N-Nitroso-di-n-propylamine	µg/L	7	--	--	0
N-Nitrosodiphenylamine	µg/L	1	--	--	0
o-Cresol	µg/L	7	--	--	0
Pentachlorophenol	µg/L	7	--	--	0
Phenol	µg/L	7	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/L	6	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	6	--	--	0
1,1,2-Trichloroethane	µg/L	6	--	--	0
1,1-Dichloroethane	µg/L	6	--	--	0
1,1-Dichloroethene	µg/L	6	--	--	0
1,2-Dichloroethane	µg/L	6	--	--	0
1,2-Dichloropropane	µg/L	6	--	--	0
2-Butanone	µg/L	6	2.4 J	2.4 J	1
2-Hexanone	µg/L	6	--	--	0
4-Methyl-2-pentanone	µg/L	6	--	--	0
Acetone	µg/L	6	0.81 J	0.96 J	2
Benzene	µg/L	6	--	--	0
Bromodichloromethane	µg/L	6	--	--	0
Bromoform	µg/L	6	--	--	0
Bromomethane	µg/L	6	--	--	0
Carbon disulfide	µg/L	6	--	--	0
Carbon tetrachloride	µg/L	6	--	--	0
Chlorobenzene	µg/L	6	--	--	0
Chloroethane	µg/L	6	--	--	0
Chloroform	µg/L	6	--	--	0
Chloromethane	µg/L	6	--	--	0
cis-1,2-Dichloroethene	µg/L	6	--	--	0
cis-1,3-Dichloropropene	µg/L	6	--	--	0

* Data qualifier included with concentration value

Table 4-100
Exposure Unit 5
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Dibromochloromethane	μg/L	5	--	--	0
Ethylbenzene	μg/L	6	0.052 J	0.052 J	1
Methylene chloride	μg/L	6	--	--	0
Styrene	μg/L	6	--	--	0
Tetrachloroethene	μg/L	6	--	--	0
Toluene	μg/L	6	--	--	0
trans-1,2-Dichloroethene	μg/L	6	--	--	0
trans-1,3-Dichloropropene	μg/L	6	--	--	0
Trichloroethene	μg/L	6	--	--	0
Vinyl chloride	μg/L	6	--	--	0
Xylenes (total)	μg/L	6	--	--	0

* Data qualifier included with concentration value

Table 4-101
Exposure Unit 6
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	9	48.9 B	2960 BN*	4
Antimony, Dissolved	µg/L	9	0.086 B	0.086 B	1
Arsenic, Dissolved	µg/L	9	0.333 B	21.1 B	9
Barium, Dissolved	µg/L	9	7	66.7 N*	8
Beryllium, Dissolved	µg/L	9	0.19 B	0.44 B	2
Boron, Dissolved	µg/L	9	89.5	3220	9
Cadmium, Dissolved	µg/L	9	3.77 B	3.77 B	1
Calcium, Dissolved	µg/L	9	52400	1270000	9
Chromium, Dissolved	µg/L	9	2.42 B	22	2
Cobalt, Dissolved	µg/L	9	19.4	19.4	1
Copper, Dissolved	µg/L	9	1.5 B	25.3	4
Iron, Dissolved	µg/L	9	5.7 BE	3540	5
Lead, Dissolved	µg/L	9	0.06 B	0.288 B	2
Lithium, Dissolved	µg/L	9	31.1	7610	9
Magnesium, Dissolved	µg/L	9	64100	317000	9
Manganese, Dissolved	µg/L	9	22.5	3050	8
Mercury, Dissolved	µg/L	9	--	--	0
Nickel, Dissolved	µg/L	9	2.5 B	72.5 B	2
Potassium, Dissolved	µg/L	9	2570	94300	9
Selenium, Dissolved	µg/L	9	0.514 B	44.6	8
Silver, Dissolved	µg/L	9	0.066 B	0.3 B	7
Sodium, Dissolved	µg/L	9	33500 E	4160000	9
Thallium, Dissolved	µg/L	9	0.029 B	0.186 B	2
Vanadium, Dissolved	µg/L	9	0.78 B	20.2	3
Zinc, Dissolved	µg/L	9	6.9	12.2	3
Metals, Total					
Aluminum	µg/L	9	30.1 B	290000	9
Antimony	µg/L	9	0.092 B	4.16 B	5
Arsenic	µg/L	9	1.52 B*	152	9
Barium	µg/L	9	7.6	1930 N*	9
Beryllium	µg/L	9	0.19 B	13.3	4
Boron	µg/L	9	90.5	3050	9
Cadmium	µg/L	9	0.78 B	0.78 B	1
Calcium	µg/L	9	59800	2150000	9
Chromium	µg/L	9	0.89 B	427	6
Cobalt	µg/L	9	0.489 B	251	5
Copper	µg/L	9	3.51 B	899	8
Iron	µg/L	9	207	577000	9
Lead	µg/L	9	0.469 B	165 E	8
Lithium	µg/L	9	31.2 E	7370	9
Magnesium	µg/L	9	71100	381000	9
Manganese	µg/L	9	64.5	22400	9
Mercury	µg/L	9	--	--	0

* Data qualifier included with concentration value

Table 4-101
Exposure Unit 6
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	μg/L	9	4.33 B	542	5
Potassium	μg/L	9	2750	133000	9
Selenium	μg/L	9	0.527 B	39.7 B	6
Silver	μg/L	9	0.006 B	1.3 B	7
Sodium	μg/L	9	31900 E	2570000	9
Thallium	μg/L	9	0.012 B	0.72 B	2
Vanadium	μg/L	9	5.11	610	5
Zinc	μg/L	9	5.1	1350	7
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/L	6	--	--	0
2,4,6-Trinitrotoluene	μg/L	6	--	--	0
2,4-Dinitrotoluene	μg/L	9	--	--	0
2,6-Dinitrotoluene	μg/L	9	--	--	0
2-Amino-4,6-dinitrotoluene	μg/L	6	--	--	0
2-Nitrotoluene	μg/L	6	--	--	0
3-Dinitrobenzene	μg/L	6	--	--	0
3-Nitrotoluene	μg/L	6	--	--	0
4-Amino-2,6-dinitrotoluene	μg/L	6	--	--	0
4-Nitrotoluene	μg/L	6	--	--	0
HMX	μg/L	6	--	--	0
Nitrobenzene	μg/L	9	--	--	0
RDX	μg/L	6	--	--	0
Tetryl	μg/L	6	--	--	0
PAHs					
Acenaphthene	μg/L	9	--	--	0
Acenaphthylene	μg/L	9	--	--	0
Anthracene	μg/L	9	--	--	0
Benzo(a)anthracene	μg/L	9	--	--	0
Benzo(a)pyrene	μg/L	9	--	--	0
Benzo(b)fluoranthene	μg/L	9	--	--	0
Benzo(g,h,i)perylene	μg/L	9	--	--	0
Benzo(k)fluoranthene	μg/L	9	--	--	0
Chrysene	μg/L	9	--	--	0
Dibenzo(a,h)anthracene	μg/L	9	--	--	0
Fluoranthene	μg/L	9	--	--	0
Fluorene	μg/L	9	--	--	0
Indeno(1,2,3-cd)pyrene	μg/L	9	--	--	0
Naphthalene	μg/L	9	--	--	0
Phenanthrene	μg/L	9	--	--	0
Pyrene	μg/L	9	--	--	0
PCBs					
Aroclor-1016	μg/L	6	--	--	0
Aroclor-1221	μg/L	6	--	--	0
Aroclor-1232	μg/L	6	--	--	0

* Data qualifier included with concentration value

Table 4-101
Exposure Unit 6
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	6	--	--	0
Aroclor-1248	µg/L	6	--	--	0
Aroclor-1254	µg/L	6	--	--	0
Aroclor-1260	µg/L	6	--	--	0
Pesticides					
4,4'-DDD	µg/L	6	--	--	0
4,4'-DDE	µg/L	6	--	--	0
4,4'-DDT	µg/L	6	--	--	0
Aldrin	µg/L	6	--	--	0
alpha-BHC	µg/L	6	--	--	0
alpha-Chlordane	µg/L	6	--	--	0
beta-BHC	µg/L	6	--	--	0
delta-BHC	µg/L	6	--	--	0
Dieldrin	µg/L	6	--	--	0
Endosulfan I	µg/L	6	--	--	0
Endosulfan II	µg/L	6	--	--	0
Endosulfan sulfate	µg/L	6	--	--	0
Endrin	µg/L	6	--	--	0
Endrin aldehyde	µg/L	6	--	--	0
Endrin ketone	µg/L	6	--	--	0
gamma-BHC (Lindane)	µg/L	6	--	--	0
gamma-Chlordane	µg/L	6	0.03 P	0.03 P	1
Heptachlor	µg/L	6	--	--	0
Heptachlor epoxide	µg/L	6	--	--	0
Methoxychlor	µg/L	6	--	--	0
Toxaphene	µg/L	6	--	--	0
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	3	--	--	0
Alpha, Dissolved	pCi/L	2	10.6	10.6	1
Americium-241, Dissolved	pCi/L	3	--	--	0
Beta, Dissolved	pCi/L	2	9.58	53	2
Cesium-137, Dissolved	pCi/L	3	--	--	0
Cobalt-60, Dissolved	pCi/L	3	--	--	0
Protactinium-231, Dissolved	pCi/L	3	--	--	0
Radium-226, Dissolved	pCi/L	3	0.559	0.559	1
Radium-228, Dissolved	pCi/L	3	2.14	2.14	1
Thorium-228, Dissolved	pCi/L	6	--	--	0
Thorium-230, Dissolved	pCi/L	3	0.372	0.372	1
Thorium-232, Dissolved	pCi/L	3	--	--	0
Total Uranium, Dissolved	µg/L	3	12.5	18.2	2
Uranium-234, Dissolved	pCi/L	6	4.96	8.98	5
Uranium-235, Dissolved	pCi/L	6	0.166	0.393	4
Uranium-238, Dissolved	pCi/L	6	4.04	5.92	5
Radionuclides, Total					

* Data qualifier included with concentration value

Table 4-101
Exposure Unit 6
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Actinium-227	pCi/L	7	--	--	0
Alpha	pCi/L	12	0.278	23.6	9
Americium-241	pCi/L	7	--	--	0
Beta	pCi/L	12	7.18	127	11
Cesium-137	pCi/L	7	2.66	2.66	1
Cobalt-60	pCi/L	7	--	--	0
Protactinium-231	pCi/L	7	--	--	0
Radium-226	pCi/L	11	0.838	3.23	9
Radium-228	pCi/L	7	1.98	1.98	1
Thorium-228	pCi/L	12	0.116	0.296 J	4
Thorium-230	pCi/L	12	0.0921 J	0.2	4
Thorium-232	pCi/L	12	0.0411	0.153 J	5
Total Uranium	μg/L	12	0.34 J	28.3	10
Uranium-234	pCi/L	12	0.288 J	16.2	10
Uranium-235	pCi/L	12	0.139	0.755	8
Uranium-238	pCi/L	12	0.119 J	13.6	10
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/L	9	--	--	0
1,2-Dichlorobenzene	μg/L	9	--	--	0
1,3-Dichlorobenzene	μg/L	9	--	--	0
1,4-Dichlorobenzene	μg/L	9	--	--	0
2,4,5-Trichlorophenol	μg/L	9	--	--	0
2,4,6-Trichlorophenol	μg/L	9	--	--	0
2,4-Dichlorophenol	μg/L	9	--	--	0
2,4-Dimethylphenol	μg/L	9	--	--	0
2,4-Dinitrophenol	μg/L	9	--	--	0
2-Chloronaphthalene	μg/L	9	--	--	0
2-Chlorophenol	μg/L	9	--	--	0
2-Methyl-4,6-dinitrophenol	μg/L	18	--	--	0
2-Methylnaphthalene	μg/L	9	--	--	0
2-Nitroaniline	μg/L	9	--	--	0
2-Nitrophenol	μg/L	9	--	--	0
3,3'-Dichlorobenzidine	μg/L	9	--	--	0
3-Nitroaniline	μg/L	9	--	--	0
4-Bromophenylphenylether	μg/L	9	--	--	0
4-Chloro-3-methylphenol	μg/L	9	--	--	0
4-Chloroaniline	μg/L	9	--	--	0
4-Chlorophenylphenylether	μg/L	9	--	--	0
4-Nitroaniline	μg/L	9	--	--	0
4-Nitrophenol	μg/L	9	--	--	0
Benzoic Acid	μg/L	7	--	--	0
bis(2-Chloroethoxy)methane	μg/L	9	--	--	0
bis(2-Chloroethyl)ether	μg/L	9	--	--	0
bis(2-Chloroisopropyl)ether	μg/L	9	--	--	0

* Data qualifier included with concentration value

Table 4-101
Exposure Unit 6
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Ethylhexyl)phthalate	µg/L	9	2.84 J	10.8	2
Butylbenzylphthalate	µg/L	9	--	--	0
Carbazole	µg/L	9	--	--	0
Dibenzofuran	µg/L	9	--	--	0
Diethylphthalate	µg/L	9	--	--	0
Dimethylphthalate	µg/L	9	--	--	0
Di-n-butylphthalate	µg/L	9	--	--	0
Di-n-octylphthalate	µg/L	9	--	--	0
Diphenylamine	µg/L	7	--	--	0
Hexachlorobenzene	µg/L	9	--	--	0
Hexachlorobutadiene	µg/L	9	--	--	0
Hexachlorocyclopentadiene	µg/L	9	--	--	0
Hexachloroethane	µg/L	9	--	--	0
Isophorone	µg/L	9	--	--	0
m,p-Cresols	µg/L	9	--	--	0
N-Nitroso-di-n-propylamine	µg/L	9	--	--	0
N-Nitrosodiphenylamine	µg/L	2	--	--	0
o-Cresol	µg/L	9	--	--	0
Pentachlorophenol	µg/L	9	--	--	0
Phenol	µg/L	9	3.91 J	5.18 J	2
Volatile Organics					
1,1,1-Trichloroethane	µg/L	8	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	8	--	--	0
1,1,2-Trichloroethane	µg/L	8	--	--	0
1,1-Dichloroethane	µg/L	8	--	--	0
1,1-Dichloroethene	µg/L	8	--	--	0
1,2-Dichloroethane	µg/L	8	--	--	0
1,2-Dichloropropane	µg/L	8	--	--	0
2-Butanone	µg/L	8	22.1	22.1	1
2-Hexanone	µg/L	8	--	--	0
4-Methyl-2-pentanone	µg/L	8	--	--	0
Acetone	µg/L	8	0.96 J	1.9 J	3
Benzene	µg/L	8	--	--	0
Bromodichloromethane	µg/L	8	--	--	0
Bromoform	µg/L	8	--	--	0
Bromomethane	µg/L	8	--	--	0
Carbon disulfide	µg/L	8	--	--	0
Carbon tetrachloride	µg/L	8	--	--	0
Chlorobenzene	µg/L	8	--	--	0
Chloroethane	µg/L	8	--	--	0
Chloroform	µg/L	8	--	--	0
Chloromethane	µg/L	8	--	--	0
cis-1,2-Dichloroethene	µg/L	8	--	--	0
cis-1,3-Dichloropropene	µg/L	8	--	--	0

* Data qualifier included with concentration value

Table 4-101
Exposure Unit 6
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Dibromochloromethane	μg/L	8	--	--	0
Ethylbenzene	μg/L	8	--	--	0
Methylene chloride	μg/L	8	--	--	0
Styrene	μg/L	8	--	--	0
Tetrachloroethene	μg/L	8	--	--	0
Toluene	μg/L	8	0.32 J	0.32 J	1
trans-1,2-Dichloroethene	μg/L	8	--	--	0
trans-1,3-Dichloropropene	μg/L	8	--	--	0
Trichloroethene	μg/L	8	--	--	0
Vinyl chloride	μg/L	8	--	--	0
Xylenes (total)	μg/L	8	--	--	0

* Data qualifier included with concentration value

Table 4-102
Exposure Unit 7
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	6	--	--	0
Antimony, Dissolved	µg/L	6	--	--	0
Arsenic, Dissolved	µg/L	6	5.5	47.6 BN	5
Barium, Dissolved	µg/L	6	10.4	58.8	6
Beryllium, Dissolved	µg/L	6	--	--	0
Boron, Dissolved	µg/L	6	118	316	6
Cadmium, Dissolved	µg/L	6	--	--	0
Calcium, Dissolved	µg/L	6	50400	265000	6
Chromium, Dissolved	µg/L	6	--	--	0
Cobalt, Dissolved	µg/L	6	1.58 B	1.58 B	1
Copper, Dissolved	µg/L	6	2.97 B	3.4 B	3
Iron, Dissolved	µg/L	6	28.4 B	267	5
Lead, Dissolved	µg/L	6	0.15 BE	0.15 BE	1
Lithium, Dissolved	µg/L	6	47.5 E	120 B	6
Magnesium, Dissolved	µg/L	6	78700	392000 E	6
Manganese, Dissolved	µg/L	6	10	197	6
Mercury, Dissolved	µg/L	6	--	--	0
Nickel, Dissolved	µg/L	6	1.8 B	1.8 B	1
Potassium, Dissolved	µg/L	6	4110	10700 NE	6
Selenium, Dissolved	µg/L	6	0.74 B	3.6 B	2
Silver, Dissolved	µg/L	6	0.08 B	0.16 B	2
Sodium, Dissolved	µg/L	6	68600	130000	6
Thallium, Dissolved	µg/L	6	0.04 B	0.225 B	3
Vanadium, Dissolved	µg/L	6	1.5 B	1.5 B	1
Zinc, Dissolved	µg/L	6	--	--	0
Metals, Total					
Aluminum	µg/L	5	467 B	31200	5
Antimony	µg/L	5	0.311 B	0.314 B	2
Arsenic	µg/L	5	7	563	5
Barium	µg/L	5	47	137	5
Beryllium	µg/L	5	0.56 B	1.22 B	4
Boron	µg/L	5	113 B	288	5
Cadmium	µg/L	5	0.47 B	0.47 B	1
Calcium	µg/L	5	155000	4360000	5
Chromium	µg/L	5	12.7	46.4	4
Cobalt	µg/L	5	3.59 B	28	4
Copper	µg/L	5	13.5	49.5	4
Iron	µg/L	5	864	49900	5
Lead	µg/L	5	3.13	603	5
Lithium	µg/L	5	107 E	3150	5
Magnesium	µg/L	5	162000	1610000	5
Manganese	µg/L	5	54.5	1370	5
Mercury	µg/L	5	0.033 B	0.079 B	3

* Data qualifier included with concentration value

Table 4-102
Exposure Unit 7
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	5	14.8	53.2	4
Potassium	µg/L	5	5940	14900	5
Selenium	µg/L	5	1.8 B	48.6 B	2
Silver	µg/L	5	0.04 B	5.07 B	4
Sodium	µg/L	5	62900	115000	5
Thallium	µg/L	5	0.117 B	3.58 B	5
Vanadium	µg/L	5	20.5	69.9	4
Zinc	µg/L	5	19.1	88.8	4
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	1	--	--	0
2,4,6-Trinitrotoluene	µg/L	1	--	--	0
2,4-Dinitrotoluene	µg/L	5	--	--	0
2,6-Dinitrotoluene	µg/L	5	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	1	--	--	0
2-Nitrotoluene	µg/L	1	--	--	0
3-Dinitrobenzene	µg/L	1	--	--	0
3-Nitrotoluene	µg/L	1	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	1	--	--	0
4-Nitrotoluene	µg/L	1	--	--	0
HMX	µg/L	1	--	--	0
Nitrobenzene	µg/L	5	--	--	0
RDX	µg/L	1	--	--	0
Tetryl	µg/L	1	--	--	0
PAHs					
Acenaphthene	µg/L	5	--	--	0
Acenaphthylene	µg/L	5	--	--	0
Anthracene	µg/L	5	--	--	0
Benzo(a)anthracene	µg/L	5	--	--	0
Benzo(a)pyrene	µg/L	5	--	--	0
Benzo(b)fluoranthene	µg/L	5	--	--	0
Benzo(g,h,i)perylene	µg/L	5	--	--	0
Benzo(k)fluoranthene	µg/L	5	--	--	0
Chrysene	µg/L	5	--	--	0
Dibenzo(a,h)anthracene	µg/L	5	--	--	0
Fluoranthene	µg/L	5	--	--	0
Fluorene	µg/L	5	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	5	--	--	0
Naphthalene	µg/L	5	--	--	0
Phenanthrene	µg/L	5	--	--	0
Pyrene	µg/L	5	--	--	0
PCBs					
Aroclor-1016	µg/L	5	--	--	0
Aroclor-1221	µg/L	5	--	--	0
Aroclor-1232	µg/L	5	--	--	0

* Data qualifier included with concentration value

Table 4-102
Exposure Unit 7
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	5	--	--	0
Aroclor-1248	µg/L	5	--	--	0
Aroclor-1254	µg/L	5	--	--	0
Aroclor-1260	µg/L	5	0.14	0.14	1
Pesticides					
4,4'-DDD	µg/L	4	--	--	0
4,4'-DDE	µg/L	4	0.0105 J	0.0105 J	1
4,4'-DDT	µg/L	4	0.0207 J	0.0207 J	1
Aldrin	µg/L	4	--	--	0
alpha-BHC	µg/L	4	--	--	0
alpha-Chlordane	µg/L	4	--	--	0
beta-BHC	µg/L	4	--	--	0
delta-BHC	µg/L	4	--	--	0
Dieldrin	µg/L	4	--	--	0
Endosulfan I	µg/L	4	--	--	0
Endosulfan II	µg/L	4	--	--	0
Endosulfan sulfate	µg/L	4	--	--	0
Endrin	µg/L	4	--	--	0
Endrin aldehyde	µg/L	4	--	--	0
Endrin ketone	µg/L	4	--	--	0
gamma-BHC (Lindane)	µg/L	4	--	--	0
gamma-Chlordane	µg/L	4	--	--	0
Heptachlor	µg/L	4	--	--	0
Heptachlor epoxide	µg/L	4	--	--	0
Methoxychlor	µg/L	4	--	--	0
Toxaphene	µg/L	4	--	--	0
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	6	--	--	0
Alpha, Dissolved	pCi/L	6	8.31	14.7	6
Americium-241, Dissolved	pCi/L	6	--	--	0
Beta, Dissolved	pCi/L	6	6.17	11.9	6
Cesium-137, Dissolved	pCi/L	6	--	--	0
Cobalt-60, Dissolved	pCi/L	6	--	--	0
Protactinium-231, Dissolved	pCi/L	6	--	--	0
Radium-226, Dissolved	pCi/L	6	0.803	2.54	2
Radium-228, Dissolved	pCi/L	6	0.843	0.843	1
Thorium-228, Dissolved	pCi/L	6	--	--	0
Thorium-230, Dissolved	pCi/L	6	0.231	1.08	4
Thorium-232, Dissolved	pCi/L	6	--	--	0
Total Activity, Dissolved	pCi/mL	4	--	--	0
Total Uranium, Dissolved	µg/L	5	15.5	28.3	5
Uranium-234, Dissolved	pCi/L	6	6.54	12.9	6
Uranium-235, Dissolved	pCi/L	6	0.437	1.02	6
Uranium-238, Dissolved	pCi/L	6	4.58	9.85	6

* Data qualifier included with concentration value

Table 4-102
Exposure Unit 7
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides, Total					
Actinium-227	pCi/L	6	--	--	0
Alpha	pCi/L	7	12.7	44.1	7
Americium-241	pCi/L	6	--	--	0
Beta	pCi/L	7	8.21	33.6	7
Cesium-137	pCi/L	6	--	--	0
Cobalt-60	pCi/L	6	--	--	0
Protactinium-231	pCi/L	6	--	--	0
Radium-226	pCi/L	8	0.651	2.63	7
Radium-228	pCi/L	6	--	--	0
Thorium-228	pCi/L	8	0.243	0.783	4
Thorium-230	pCi/L	8	0.227	1.43	7
Thorium-232	pCi/L	8	0.0882	0.731	7
Total Activity	pCi/mL	4	--	--	0
Total Uranium	μg/L	8	1.07	28.4	8
Uranium-234	pCi/L	8	0.73	11	8
Uranium-235	pCi/L	8	0.805	1.44	4
Uranium-238	pCi/L	8	0.635	8.89	8
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/L	5	--	--	0
1,2-Dichlorobenzene	μg/L	5	--	--	0
1,3-Dichlorobenzene	μg/L	5	--	--	0
1,4-Dichlorobenzene	μg/L	5	--	--	0
2,4,5-Trichlorophenol	μg/L	5	--	--	0
2,4,6-Trichlorophenol	μg/L	5	--	--	0
2,4-Dichlorophenol	μg/L	5	--	--	0
2,4-Dimethylphenol	μg/L	5	--	--	0
2,4-Dinitrophenol	μg/L	5	--	--	0
2-Chloronaphthalene	μg/L	5	--	--	0
2-Chlorophenol	μg/L	5	--	--	0
2-Methyl-4,6-dinitrophenol	μg/L	10	--	--	0
2-Methylnaphthalene	μg/L	5	--	--	0
2-Nitroaniline	μg/L	5	--	--	0
2-Nitrophenol	μg/L	5	--	--	0
3,3'-Dichlorobenzidine	μg/L	5	--	--	0
3-Nitroaniline	μg/L	5	--	--	0
4-Bromophenylphenylether	μg/L	5	--	--	0
4-Chloro-3-methylphenol	μg/L	5	--	--	0
4-Chloroaniline	μg/L	5	--	--	0
4-Chlorophenylphenylether	μg/L	5	--	--	0
4-Nitroaniline	μg/L	5	--	--	0
4-Nitrophenol	μg/L	5	--	--	0
Benzoic Acid	μg/L	1	--	--	0
bis(2-Chloroethoxy)methane	μg/L	5	--	--	0

* Data qualifier included with concentration value

Table 4-102
Exposure Unit 7
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethyl)ether	µg/L	5	--	--	0
bis(2-Chloroisopropyl)ether	µg/L	5	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	5	--	--	0
Butylbenzylphthalate	µg/L	5	--	--	0
Carbazole	µg/L	5	--	--	0
Dibenzofuran	µg/L	5	--	--	0
Diethylphthalate	µg/L	5	--	--	0
Dimethylphthalate	µg/L	5	--	--	0
Di-n-butylphthalate	µg/L	5	--	--	0
Di-n-octylphthalate	µg/L	5	--	--	0
Diphenylamine	µg/L	1	--	--	0
Hexachlorobenzene	µg/L	5	--	--	0
Hexachlorobutadiene	µg/L	5	--	--	0
Hexachlorocyclopentadiene	µg/L	5	--	--	0
Hexachloroethane	µg/L	5	--	--	0
Isophorone	µg/L	5	--	--	0
m,p-Cresols	µg/L	5	--	--	0
N-Nitroso-di-n-propylamine	µg/L	5	--	--	0
N-Nitrosodiphenylamine	µg/L	4	--	--	0
o-Cresol	µg/L	5	--	--	0
Pentachlorophenol	µg/L	5	--	--	0
Phenol	µg/L	5	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/L	7	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	7	--	--	0
1,1,2-Trichloroethane	µg/L	7	--	--	0
1,1-Dichloroethane	µg/L	7	--	--	0
1,1-Dichloroethene	µg/L	7	--	--	0
1,2-Dichloroethane	µg/L	7	--	--	0
1,2-Dichloropropane	µg/L	7	--	--	0
2-Butanone	µg/L	7	--	--	0
2-Hexanone	µg/L	7	--	--	0
4-Methyl-2-pentanone	µg/L	7	--	--	0
Acetone	µg/L	7	8.28	20.4	3
Benzene	µg/L	7	--	--	0
Bromodichloromethane	µg/L	7	--	--	0
Bromoform	µg/L	7	--	--	0
Bromomethane	µg/L	7	--	--	0
Carbon disulfide	µg/L	7	--	--	0
Carbon tetrachloride	µg/L	7	--	--	0
Chlorobenzene	µg/L	7	--	--	0
Chloroethane	µg/L	7	--	--	0
Chloroform	µg/L	7	--	--	0
Chloromethane	µg/L	7	--	--	0

* Data qualifier included with concentration value

Table 4-102
Exposure Unit 7
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
cis-1,2-Dichloroethene	μg/L	7	--	--	0
cis-1,3-Dichloropropene	μg/L	7	--	--	0
Dibromochloromethane	μg/L	7	--	--	0
Ethylbenzene	μg/L	7	--	--	0
Methylene chloride	μg/L	7	--	--	0
Styrene	μg/L	7	--	--	0
Tetrachloroethene	μg/L	7	--	--	0
Toluene	μg/L	7	--	--	0
trans-1,2-Dichloroethene	μg/L	7	--	--	0
trans-1,3-Dichloropropene	μg/L	7	--	--	0
Trichloroethene	μg/L	7	--	--	0
Vinyl chloride	μg/L	7	--	--	0
Xylenes (total)	μg/L	7	--	--	0

* Data qualifier included with concentration value

Table 4-103
Exposure Unit 8
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	17	15.1 B	799	6
Antimony, Dissolved	µg/L	17	0.074 B	4.7 B	7
Arsenic, Dissolved	µg/L	17	1.8 B	8.7 B	15
Barium, Dissolved	µg/L	17	6.34	73.2	17
Beryllium, Dissolved	µg/L	17	0.24 B	0.24 B	1
Boron, Dissolved	µg/L	17	47.1 B	3130	17
Cadmium, Dissolved	µg/L	17	0.33 B	0.33 B	1
Calcium, Dissolved	µg/L	17	82800	486000	17
Chromium, Dissolved	µg/L	17	38.9	38.9	1
Cobalt, Dissolved	µg/L	17	0.75 B	33.4	9
Copper, Dissolved	µg/L	17	1.1 B	33.7	14
Iron, Dissolved	µg/L	17	2.5 B	7540	10
Lead, Dissolved	µg/L	17	0.05 B	0.52 B	5
Lithium, Dissolved	µg/L	17	6.7 EN	1750 NE	17
Magnesium, Dissolved	µg/L	17	11500 E	1180000	17
Manganese, Dissolved	µg/L	17	1.3 B	1230	17
Mercury, Dissolved	µg/L	17	--	--	0
Nickel, Dissolved	µg/L	17	1.4 B	19.5 B	8
Potassium, Dissolved	µg/L	17	359 E	51000	17
Selenium, Dissolved	µg/L	17	0.4 B	13 B	14
Silver, Dissolved	µg/L	17	0.09 B	0.83 B	11
Sodium, Dissolved	µg/L	17	4830 E	1870000 E	17
Thallium, Dissolved	µg/L	17	0.017 B	0.06 B	3
Vanadium, Dissolved	µg/L	17	1.5 B	34.5	2
Zinc, Dissolved	µg/L	17	0.69 B	17.6 B	10
Metals, Total					
Aluminum	µg/L	17	14.6 B	80400	17
Antimony	µg/L	17	0.067 B	3.9 B	6
Arsenic	µg/L	17	2.1 B	35.3 E	15
Barium	µg/L	17	6.01	692 N*	17
Beryllium	µg/L	17	0.19 B	3.3 B	10
Boron	µg/L	17	79.5	2860 E	17
Cadmium	µg/L	17	0.37 B	1.3 B	6
Calcium	µg/L	17	73600	690000	17
Chromium	µg/L	17	1.2 B	106	14
Cobalt	µg/L	17	0.446 B	47.4	15
Copper	µg/L	17	2.2 B	422	16
Iron	µg/L	17	29.1 B	121000	17
Lead	µg/L	17	0.189 B	36.4	12
Lithium	µg/L	17	28.7 E	1600 E	17
Magnesium	µg/L	17	7830 E	1130000	17
Manganese	µg/L	17	5.3 B	7840	17
Mercury	µg/L	17	0.06 B	0.06 B	1

* Data qualifier included with concentration value

Table 4-103
Exposure Unit 8
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	17	1.5 B	113	13
Potassium	µg/L	17	2130	42900	17
Selenium	µg/L	17	0.74 B	22.1	15
Silver	µg/L	17	0.006 B	1.4 B	15
Sodium	µg/L	17	7230 E	1730000 E	17
Thallium	µg/L	17	0.025 B	14.8	5
Vanadium	µg/L	17	1.2 B	165	13
Zinc	µg/L	17	2.6 B	273	17
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	9	1.5	1.5	1
2,4,6-Trinitrotoluene	µg/L	9	--	--	0
2,4-Dinitrotoluene	µg/L	19	--	--	0
2,6-Dinitrotoluene	µg/L	19	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	9	--	--	0
2-Nitrotoluene	µg/L	9	--	--	0
3-Dinitrobenzene	µg/L	9	--	--	0
3-Nitrotoluene	µg/L	9	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	9	--	--	0
4-Nitrotoluene	µg/L	9	--	--	0
HMX	µg/L	9	--	--	0
Nitrobenzene	µg/L	19	--	--	0
RDX	µg/L	9	0.153	0.153	1
Tetryl	µg/L	9	--	--	0
PAHs					
Acenaphthene	µg/L	19	--	--	0
Acenaphthylene	µg/L	19	--	--	0
Anthracene	µg/L	19	--	--	0
Benzo(a)anthracene	µg/L	19	--	--	0
Benzo(a)pyrene	µg/L	19	--	--	0
Benzo(b)fluoranthene	µg/L	19	--	--	0
Benzo(g,h,i)perylene	µg/L	19	--	--	0
Benzo(k)fluoranthene	µg/L	19	--	--	0
Chrysene	µg/L	19	--	--	0
Dibenzo(a,h)anthracene	µg/L	19	--	--	0
Fluoranthene	µg/L	19	--	--	0
Fluorene	µg/L	19	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	19	--	--	0
Naphthalene	µg/L	19	--	--	0
Phenanthrene	µg/L	19	0.01	0.914	2
Pyrene	µg/L	19	--	--	0
PCBs					
Aroclor-1016	µg/L	11	--	--	0
Aroclor-1221	µg/L	11	--	--	0
Aroclor-1232	µg/L	11	--	--	0

* Data qualifier included with concentration value

Table 4-103
Exposure Unit 8
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	11	--	--	0
Aroclor-1248	µg/L	11	--	--	0
Aroclor-1254	µg/L	11	--	--	0
Aroclor-1260	µg/L	11	--	--	0
Pesticides					
4,4'-DDD	µg/L	11	--	--	0
4,4'-DDE	µg/L	11	0.055	0.055	1
4,4'-DDT	µg/L	11	0.0361 J	0.0361 J	1
Aldrin	µg/L	11	--	--	0
alpha-BHC	µg/L	11	0.019 J	0.019 J	1
alpha-Chlordane	µg/L	11	--	--	0
beta-BHC	µg/L	11	--	--	0
delta-BHC	µg/L	11	--	--	0
Dieldrin	µg/L	11	--	--	0
Endosulfan I	µg/L	11	--	--	0
Endosulfan II	µg/L	11	--	--	0
Endosulfan sulfate	µg/L	11	--	--	0
Endrin	µg/L	11	--	--	0
Endrin aldehyde	µg/L	11	--	--	0
Endrin ketone	µg/L	11	--	--	0
gamma-BHC (Lindane)	µg/L	11	--	--	0
gamma-Chlordane	µg/L	11	--	--	0
Heptachlor	µg/L	11	--	--	0
Heptachlor epoxide	µg/L	11	--	--	0
Methoxychlor	µg/L	11	--	--	0
Toxaphene	µg/L	11	--	--	0
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	4	--	--	0
Alpha, Dissolved	pCi/L	4	9.3	70.2	3
Americium-241, Dissolved	pCi/L	4	--	--	0
Beta, Dissolved	pCi/L	4	7.6	44.4	4
Cesium-137, Dissolved	pCi/L	4	--	--	0
Cobalt-60, Dissolved	pCi/L	4	--	--	0
Plutonium-238, Dissolved	pCi/L	1	--	--	0
Protactinium-231, Dissolved	pCi/L	4	--	--	0
Radium-226, Dissolved	pCi/L	4	0.493	0.558	2
Radium-228, Dissolved	pCi/L	4	--	--	0
Strontium-90, Dissolved	pCi/L	1	--	--	0
Thorium-228, Dissolved	pCi/L	7	0.334	0.334	1
Thorium-230, Dissolved	pCi/L	4	0.283	0.554	3
Thorium-232, Dissolved	pCi/L	4	--	--	0
Total Activity, Dissolved	pCi/mL	1	--	--	0
Total Uranium, Dissolved	µg/L	4	0.696	126	4
Uranium-234, Dissolved	pCi/L	7	5.65	57.5	6

* Data qualifier included with concentration value

Table 4-103
Exposure Unit 8
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Uranium-235, Dissolved	pCi/L	7	0.291	3.46	6
Uranium-238, Dissolved	pCi/L	7	5.4	44.4	6
Radionuclides, Total					
Actinium-227	pCi/L	6	--	--	0
Alpha	pCi/L	20	0.982	132	17
Americium-241	pCi/L	6	--	--	0
Beta	pCi/L	20	3.89	44.9	19
Cesium-137	pCi/L	6	--	--	0
Cobalt-60	pCi/L	6	--	--	0
Plutonium-238	pCi/L	1	--	--	0
Plutonium-239/240	pCi/L	1	--	--	0
Protactinium-231	pCi/L	6	--	--	0
Radium-226	pCi/L	19	0.39	3.9	11
Radium-228	pCi/L	6	--	--	0
Strontium-90	pCi/L	1	--	--	0
Thorium-228	pCi/L	19	0.188 J	5.33	6
Thorium-230	pCi/L	19	0.138	4.37	11
Thorium-232	pCi/L	19	0.0848 J	3.37	8
Total Activity	pCi/mL	1	--	--	0
Total Uranium	μg/L	19	0.434	125	17
Uranium-234	pCi/L	19	0.0515 J	61	18
Uranium-235	pCi/L	19	0.27 J	2.24	14
Uranium-238	pCi/L	19	0.216 J	47	17
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/L	19	--	--	0
1,2-Dichlorobenzene	μg/L	19	--	--	0
1,3-Dichlorobenzene	μg/L	19	--	--	0
1,4-Dichlorobenzene	μg/L	19	--	--	0
2,4,5-Trichlorophenol	μg/L	19	--	--	0
2,4,6-Trichlorophenol	μg/L	19	--	--	0
2,4-Dichlorophenol	μg/L	19	--	--	0
2,4-Dimethylphenol	μg/L	19	--	--	0
2,4-Dinitrophenol	μg/L	19	--	--	0
2-Chloronaphthalene	μg/L	19	--	--	0
2-Chlorophenol	μg/L	19	0.407 J	0.407 J	1
2-Methyl-4,6-dinitrophenol	μg/L	38	--	--	0
2-Methylnaphthalene	μg/L	18	--	--	0
2-Nitroaniline	μg/L	19	--	--	0
2-Nitrophenol	μg/L	19	--	--	0
3,3'-Dichlorobenzidine	μg/L	19	--	--	0
3-Nitroaniline	μg/L	19	--	--	0
4-Bromophenylphenylether	μg/L	19	--	--	0
4-Chloro-3-methylphenol	μg/L	19	--	--	0
4-Chloroaniline	μg/L	19	--	--	0

* Data qualifier included with concentration value

Table 4-103
Exposure Unit 8
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
4-Chlorophenylphenylether	µg/L	19	--	--	0
4-Nitroaniline	µg/L	19	--	--	0
4-Nitrophenol	µg/L	19	--	--	0
Benzoic Acid	µg/L	14	--	--	0
bis(2-Chloroethoxy)methane	µg/L	19	--	--	0
bis(2-Chloroethyl)ether	µg/L	19	--	--	0
bis(2-Chloroisopropyl)ether	µg/L	19	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	19	3.07 J	3.07	1
Butylbenzylphthalate	µg/L	19	--	--	0
Carbazole	µg/L	19	--	--	0
Dibenzofuran	µg/L	19	--	--	0
Diethylphthalate	µg/L	19	--	--	0
Dimethylphthalate	µg/L	19	--	--	0
Di-n-butylphthalate	µg/L	19	14.9	89.4	6
Di-n-octylphthalate	µg/L	19	--	--	0
Diphenylamine	µg/L	14	--	--	0
Hexachlorobenzene	µg/L	19	--	--	0
Hexachlorobutadiene	µg/L	19	--	--	0
Hexachlorocyclopentadiene	µg/L	19	--	--	0
Hexachloroethane	µg/L	19	--	--	0
Isophorone	µg/L	19	--	--	0
m,p-Cresols	µg/L	18	--	--	0
N-Nitroso-di-n-propylamine	µg/L	19	--	--	0
N-Nitrosodiphenylamine	µg/L	5	--	--	0
o-Cresol	µg/L	19	--	--	0
p-Cresol	µg/L	1	--	--	0
Pentachlorophenol	µg/L	19	--	--	0
Phenol	µg/L	19	11.3	12.3	2
Volatile Organics					
1,1,1-Trichloroethane	µg/L	18	6	6	1
1,1,2,2-Tetrachloroethane	µg/L	18	--	--	0
1,1,2-Trichloroethane	µg/L	18	--	--	0
1,1-Dichloroethane	µg/L	18	1	1	1
1,1-Dichloroethene	µg/L	18	2	2	1
1,2-Dichloroethane	µg/L	18	--	--	0
1,2-Dichloroethene	µg/L	1	2	2	1
1,2-Dichloropropane	µg/L	18	--	--	0
2-Butanone	µg/L	17	2.2 J	4.95 J	2
2-Hexanone	µg/L	18	--	--	0
4-Methyl-2-pentanone	µg/L	17	--	--	0
Acetone	µg/L	18	0.83 J	14.5	5
Benzene	µg/L	18	--	--	0
Bromodichloromethane	µg/L	18	--	--	0
Bromoform	µg/L	18	--	--	0

* Data qualifier included with concentration value

Table 4-103
Exposure Unit 8
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Bromomethane	µg/L	18	--	--	0
Carbon disulfide	µg/L	18	2.37 J	2.37 J	1
Carbon tetrachloride	µg/L	18	--	--	0
Chlorobenzene	µg/L	18	--	--	0
Chloroethane	µg/L	18	--	--	0
Chloroform	µg/L	18	--	--	0
Chloromethane	µg/L	18	--	--	0
cis-1,2-Dichloroethene	µg/L	17	--	--	0
cis-1,3-Dichloropropene	µg/L	18	--	--	0
Dibromochloromethane	µg/L	18	--	--	0
Ethylbenzene	µg/L	18	0.06 J	0.06 J	1
Methylene chloride	µg/L	18	1.93 J	1.93 J	1
o-Xylene	µg/L	1	--	--	0
Styrene	µg/L	18	--	--	0
Tetrachloroethene	µg/L	18	0.597 BJ	0.597 BJ	1
Toluene	µg/L	18	0.13 J	0.13 J	1
trans-1,2-Dichloroethene	µg/L	17	--	--	0
trans-1,3-Dichloropropene	µg/L	18	--	--	0
Trichloroethene	µg/L	18	5	5	1
Vinyl chloride	µg/L	18	--	--	0
Xylenes (total)	µg/L	17	--	--	0

* Data qualifier included with concentration value

Table 4-104
Exposure Unit 10
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	68	6.59 B	739 B	29
Antimony, Dissolved	µg/L	68	0.065 B	4.9 B	32
Arsenic, Dissolved	µg/L	68	0.25 B	66.8 B	54
Barium, Dissolved	µg/L	68	6.59	147	68
Beryllium, Dissolved	µg/L	68	0.18 B	13.3	7
Boron, Dissolved	µg/L	68	22.9 B	2690	68
Cadmium, Dissolved	µg/L	68	0.24 B	1.4 B	12
Calcium, Dissolved	µg/L	68	10800	598000	68
Chromium, Dissolved	µg/L	68	0.74 B	5.68	16
Cobalt, Dissolved	µg/L	68	0.618 B	7.19	21
Copper, Dissolved	µg/L	68	1.19 B	4770	50
Iron, Dissolved	µg/L	68	3.8 B	1150	40
Lead, Dissolved	µg/L	68	0.025 B	2.41	29
Lithium, Dissolved	µg/L	68	15.1 NE	717	68
Magnesium, Dissolved	µg/L	68	18300 E	822000	68
Manganese, Dissolved	µg/L	68	2.17 B	795	60
Mercury, Dissolved	µg/L	68	--	--	0
Nickel, Dissolved	µg/L	68	1.3 B	74	39
Potassium, Dissolved	µg/L	68	1110	143000 E	68
Selenium, Dissolved	µg/L	68	0.284 B	62.7 BN*	39
Silver, Dissolved	µg/L	68	0.005 B	0.995 B	30
Sodium, Dissolved	µg/L	68	21100	805000	68
Thallium, Dissolved	µg/L	68	0.005 B	11.9 B	33
Vanadium, Dissolved	µg/L	68	0.7 B	6.23	5
Zinc, Dissolved	µg/L	68	0.6 B	643	40
Metals, Total					
Aluminum	µg/L	67	8.77 B	1330000	56
Antimony	µg/L	68	0.059 B	28.2	49
Arsenic	µg/L	68	1.04 B	594	59
Barium	µg/L	68	7.3	6680	68
Beryllium	µg/L	68	0.189 B	54.1	18
Boron	µg/L	68	31.3 B	2980	68
Cadmium	µg/L	68	0.23 B	13.5 B	16
Calcium	µg/L	68	1640	3850000	68
Chromium	µg/L	68	0.64 B	2090	42
Cobalt	µg/L	68	0.316 B	1090	32
Copper	µg/L	68	1.74 B	2920	58
Iron	µg/L	68	13.7 B	2430000	63
Lead	µg/L	68	0.028 B	520	58
Lithium	µg/L	68	11 E	1610 N	68
Magnesium	µg/L	68	587 E	1150000 E	68
Manganese	µg/L	68	1.4 B	78300	64
Mercury	µg/L	68	0.035 B	1.01	14

* Data qualifier included with concentration value

Table 4-104
Exposure Unit 10
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	68	0.998 B	2340	56
Potassium	µg/L	68	1190	240000	68
Selenium	µg/L	68	0.503 B	25.3	42
Silver	µg/L	68	0.006 B	4.47 B	43
Sodium	µg/L	68	18900 E	909000	68
Thallium	µg/L	68	0.006 B	6.32	47
Vanadium	µg/L	68	0.535 B	2700	22
Zinc	µg/L	68	0.74 B	4950	61
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	38	--	--	0
2,4,6-Trinitrotoluene	µg/L	38	--	--	0
2,4-Dinitrotoluene	µg/L	67	--	--	0
2,6-Dinitrotoluene	µg/L	67	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	38	--	--	0
2-Nitrotoluene	µg/L	38	--	--	0
3-Dinitrobenzene	µg/L	38	--	--	0
3-Nitrotoluene	µg/L	38	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	38	--	--	0
4-Nitrotoluene	µg/L	38	--	--	0
HMX	µg/L	38	--	--	0
Nitrobenzene	µg/L	67	--	--	0
RDX	µg/L	38	--	--	0
Tetryl	µg/L	38	--	--	0
PAHs					
Acenaphthene	µg/L	68	--	--	0
Acenaphthylene	µg/L	68	--	--	0
Anthracene	µg/L	68	--	--	0
Benzo(a)anthracene	µg/L	68	--	--	0
Benzo(a)pyrene	µg/L	68	--	--	0
Benzo(b)fluoranthene	µg/L	68	--	--	0
Benzo(g,h,i)perylene	µg/L	68	--	--	0
Benzo(k)fluoranthene	µg/L	68	--	--	0
Chrysene	µg/L	68	--	--	0
Dibenzo(a,h)anthracene	µg/L	68	--	--	0
Fluoranthene	µg/L	68	0.016 J	0.0852	2
Fluorene	µg/L	68	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	68	0.0267 J	0.0267 J	1
Naphthalene	µg/L	68	0.186 J	0.186 J	1
Phenanthrene	µg/L	68	0.795 J	2.49 J	2
Pyrene	µg/L	68	0.953 J	0.953 J	1
PCBs					
Aroclor-1016	µg/L	57	--	--	0
Aroclor-1221	µg/L	57	--	--	0
Aroclor-1232	µg/L	57	--	--	0

* Data qualifier included with concentration value

Table 4-104
Exposure Unit 10
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	57	--	--	0
Aroclor-1248	µg/L	57	--	--	0
Aroclor-1254	µg/L	57	--	--	0
Aroclor-1260	µg/L	57	--	--	0
Pesticides					
4,4'-DDD	µg/L	57	0.0414	0.0414	1
4,4'-DDE	µg/L	57	0.0048 J	0.0355 J	10
4,4'-DDT	µg/L	57	0.011 J	0.0492	11
Aldrin	µg/L	57	0.0294	0.0294	1
alpha-BHC	µg/L	57	0.0096	0.0096	1
alpha-Chlordane	µg/L	57	--	--	0
beta-BHC	µg/L	57	0.0283	0.0283	1
delta-BHC	µg/L	57	0.0074	0.0074	1
Dieldrin	µg/L	57	0.0051	0.0288 J	2
Endosulfan I	µg/L	57	--	--	0
Endosulfan II	µg/L	57	--	--	0
Endosulfan sulfate	µg/L	57	0.0221 J	0.0221 J	1
Endrin	µg/L	57	0.0252 J	0.0252 J	1
Endrin aldehyde	µg/L	57	0.0152 J	0.0152 J	1
Endrin ketone	µg/L	57	0.0046	0.0072 J	2
gamma-BHC (Lindane)	µg/L	57	0.0155 J	0.0155 J	1
gamma-Chlordane	µg/L	57	--	--	0
Heptachlor	µg/L	57	0.0197 J	0.0197 J	1
Heptachlor epoxide	µg/L	57	0.031	0.031	1
Methoxychlor	µg/L	57	--	--	0
Toxaphene	µg/L	57	--	--	0
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	50	--	--	0
Alpha, Dissolved	pCi/L	49	2.64	610	38
Americium-241, Dissolved	pCi/L	50	--	--	0
Beta, Dissolved	pCi/L	49	1.92	453	44
Cesium-137, Dissolved	pCi/L	50	2.61	2.61	1
Cobalt-60, Dissolved	pCi/L	50	--	--	0
Protactinium-231, Dissolved	pCi/L	50	--	--	0
Radium-226, Dissolved	pCi/L	50	0.277	2.75	17
Radium-228, Dissolved	pCi/L	50	0.701	1.87	13
Thorium-228, Dissolved	pCi/L	64	0.169	0.197	2
Thorium-230, Dissolved	pCi/L	50	0.0904	4.68	26
Thorium-232, Dissolved	pCi/L	50	--	--	0
Total Activity, Dissolved	pCi/mL	20	--	--	0
Total Uranium, Dissolved	µg/L	47	0.393	9580	45
Uranium-234, Dissolved	pCi/L	64	0.155	319	61
Uranium-235, Dissolved	pCi/L	64	0.109	39.1	43
Uranium-238, Dissolved	pCi/L	64	0.132	301	60

* Data qualifier included with concentration value

Table 4-104
Exposure Unit 10
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides, Total					
Actinium-227	pCi/L	64	--	--	0
Alpha	pCi/L	83	0.934	562	63
Americium-241	pCi/L	64	--	--	0
Beta	pCi/L	83	4.17	220 J	78
Cesium-137	pCi/L	64	2.12	57.1	4
Cobalt-60	pCi/L	64	--	--	0
Protactinium-231	pCi/L	64	--	--	0
Radium-226	pCi/L	84	0.471 J	11.3	36
Radium-228	pCi/L	64	0.953	126	9
Thorium-228	pCi/L	84	0.109 J	9.06	21
Thorium-230	pCi/L	84	0.0446 J	5.3	32
Thorium-232	pCi/L	84	0.035 J	5.6	18
Total Activity	pCi/mL	20	--	--	0
Total Uranium	μg/L	83	0.243	662	80
Uranium-234	pCi/L	84	0.333	523	78
Uranium-235	pCi/L	84	0.06	33.2	57
Uranium-238	pCi/L	84	0.149	543	78
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/L	67	--	--	0
1,2-Dichlorobenzene	μg/L	67	--	--	0
1,3-Dichlorobenzene	μg/L	67	--	--	0
1,4-Dichlorobenzene	μg/L	67	--	--	0
2,4,5-Trichlorophenol	μg/L	66	--	--	0
2,4,6-Trichlorophenol	μg/L	66	--	--	0
2,4-Dichlorophenol	μg/L	66	--	--	0
2,4-Dimethylphenol	μg/L	66	--	--	0
2,4-Dinitrophenol	μg/L	66	--	--	0
2-Chloronaphthalene	μg/L	67	--	--	0
2-Chlorophenol	μg/L	66	0.511 J	0.511 J	1
2-Methyl-4,6-dinitrophenol	μg/L	132	--	--	0
2-Methylnaphthalene	μg/L	67	--	--	0
2-Nitroaniline	μg/L	67	--	--	0
2-Nitrophenol	μg/L	66	--	--	0
3,3'-Dichlorobenzidine	μg/L	67	--	--	0
3-Nitroaniline	μg/L	67	--	--	0
4-Bromophenylphenylether	μg/L	67	--	--	0
4-Chloro-3-methylphenol	μg/L	66	--	--	0
4-Chloroaniline	μg/L	67	--	--	0
4-Chlorophenylphenylether	μg/L	67	--	--	0
4-Nitroaniline	μg/L	67	--	--	0
4-Nitrophenol	μg/L	66	--	--	0
Benzoic Acid	μg/L	23	--	--	0
bis(2-Chloroethoxy)methane	μg/L	67	--	--	0

* Data qualifier included with concentration value

Table 4-104
Exposure Unit 10
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethyl)ether	µg/L	67	1.77 J	1.77 J	1
bis(2-Chloroisopropyl)ether	µg/L	67	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	67	1.91 J	289	9
Butylbenzylphthalate	µg/L	67	--	--	0
Carbazole	µg/L	67	--	--	0
Dibenzofuran	µg/L	67	--	--	0
Diethylphthalate	µg/L	67	--	--	0
Dimethylphthalate	µg/L	67	--	--	0
Di-n-butylphthalate	µg/L	67	2.72 J	2.72 J	1
Di-n-octylphthalate	µg/L	67	19.6	19.6	1
Diphenylamine	µg/L	23	--	--	0
Hexachlorobenzene	µg/L	67	--	--	0
Hexachlorobutadiene	µg/L	67	--	--	0
Hexachlorocyclopentadiene	µg/L	67	--	--	0
Hexachloroethane	µg/L	67	--	--	0
Isophorone	µg/L	67	--	--	0
m,p-Cresols	µg/L	66	--	--	0
N-Nitroso-di-n-propylamine	µg/L	67	--	--	0
N-Nitrosodiphenylamine	µg/L	44	--	--	0
o-Cresol	µg/L	66	--	--	0
Pentachlorophenol	µg/L	66	--	--	0
Phenol	µg/L	66	0.291 J	57.9	11
Volatile Organics					
1,1,1-Trichloroethane	µg/L	67	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	67	--	--	0
1,1,2-Trichloroethane	µg/L	67	--	--	0
1,1-Dichloroethane	µg/L	67	--	--	0
1,1-Dichloroethene	µg/L	67	--	--	0
1,2-Dichloroethane	µg/L	67	--	--	0
1,2-Dichloropropane	µg/L	67	--	--	0
2-Butanone	µg/L	67	1.8 J	68.6	16
2-Hexanone	µg/L	67	--	--	0
4-Methyl-2-pentanone	µg/L	67	--	--	0
Acetone	µg/L	67	0.64 J	101	22
Benzene	µg/L	67	0.758 J	2.79	2
Bromodichloromethane	µg/L	67	--	--	0
Bromoform	µg/L	67	--	--	0
Bromomethane	µg/L	67	--	--	0
Carbon disulfide	µg/L	67	0.84 J	14.6	3
Carbon tetrachloride	µg/L	67	--	--	0
Chlorobenzene	µg/L	67	--	--	0
Chloroethane	µg/L	67	--	--	0
Chloroform	µg/L	67	0.944 J	0.944 J	1
Chloromethane	µg/L	67	--	--	0

* Data qualifier included with concentration value

Table 4-104
Exposure Unit 10
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
cis-1,2-Dichloroethene	μg/L	67	--	--	0
cis-1,3-Dichloropropene	μg/L	67	--	--	0
Dibromochloromethane	μg/L	62	--	--	0
Ethylbenzene	μg/L	67	0.1 J	0.1 J	1
Methylene chloride	μg/L	67	1.92 J	2.13 J	6
Styrene	μg/L	67	0.15 J	0.15 J	1
Tetrachloroethene	μg/L	67	--	--	0
Toluene	μg/L	67	0.26 J	0.36 J	3
trans-1,2-Dichloroethene	μg/L	67	--	--	0
trans-1,3-Dichloropropene	μg/L	67	--	--	0
Trichloroethene	μg/L	67	--	--	0
Vinyl chloride	μg/L	67	0.75 J	0.75 J	1
Xylenes (total)	μg/L	67	2.5 J	2.5 J	1

* Data qualifier included with concentration value

Table 4-105
Exposure Unit 11
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	11	20.2 BN	295	4
Antimony, Dissolved	µg/L	11	4.2 B	5.41 B	4
Arsenic, Dissolved	µg/L	11	3.6	9.4 B	6
Barium, Dissolved	µg/L	11	4.87 B	35.6	11
Beryllium, Dissolved	µg/L	11	0.23 B	0.23 B	1
Boron, Dissolved	µg/L	11	118	3410	11
Cadmium, Dissolved	µg/L	11	0.28 B	1.05 B	3
Calcium, Dissolved	µg/L	11	73800	553000	11
Chromium, Dissolved	µg/L	11	1.1 B	1.1 B	1
Cobalt, Dissolved	µg/L	11	1.9 B	2.4 B	3
Copper, Dissolved	µg/L	11	2.05 B	13.2	6
Iron, Dissolved	µg/L	11	10.2 B	983	4
Lead, Dissolved	µg/L	11	0.23 B	0.23 B	1
Lithium, Dissolved	µg/L	11	61.4	1670	11
Magnesium, Dissolved	µg/L	11	67600	353000 NE	11
Manganese, Dissolved	µg/L	11	2.88 B	701	11
Mercury, Dissolved	µg/L	11	0.036 B	0.146 B	2
Nickel, Dissolved	µg/L	11	1.7 B	5.25	6
Potassium, Dissolved	µg/L	11	2510	56000	11
Selenium, Dissolved	µg/L	11	0.38 B	25.6	6
Silver, Dissolved	µg/L	11	0.08 B	0.94 B	7
Sodium, Dissolved	µg/L	11	42100	186000	11
Thallium, Dissolved	µg/L	11	0.225 B	11.4 B	4
Vanadium, Dissolved	µg/L	11	0.91 B	1.7 B	3
Zinc, Dissolved	µg/L	11	0.85 B	49.6	3
Metals, Total					
Aluminum	µg/L	10	27.9 B	67700	10
Antimony	µg/L	10	0.229 B	17.3	8
Arsenic	µg/L	10	3 B	40.2	9
Barium	µg/L	10	8.98	505	10
Beryllium	µg/L	10	0.633 B	2.7 B	8
Boron	µg/L	10	141	3800	10
Cadmium	µg/L	10	0.26 B	1.43 B	6
Calcium	µg/L	10	107000	571000	10
Chromium	µg/L	10	0.7 B	91	10
Cobalt	µg/L	10	5.81	53.3	8
Copper	µg/L	10	6.55	143	9
Iron	µg/L	10	76	119000 EN	10
Lead	µg/L	10	0.825 B	28.9 E	9
Lithium	µg/L	10	72.4	2050	10
Magnesium	µg/L	10	76300	367000	10
Manganese	µg/L	10	86.6	5740	10
Mercury	µg/L	10	0.05 B	0.138 B	5

* Data qualifier included with concentration value

Table 4-105
Exposure Unit 11
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	10	2.25 B	107	9
Potassium	µg/L	10	6250	59500	10
Selenium	µg/L	10	3 B	15.4 B	4
Silver	µg/L	10	0.109 B	0.402 B	7
Sodium	µg/L	10	41800	188000	10
Thallium	µg/L	10	0.035 BN	0.96	7
Vanadium	µg/L	10	25.7	147	8
Zinc	µg/L	10	1.98 B	251 E	10
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	2	--	--	0
2,4,6-Trinitrotoluene	µg/L	2	--	--	0
2,4-Dinitrotoluene	µg/L	10	--	--	0
2,6-Dinitrotoluene	µg/L	10	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	2	--	--	0
2-Nitrotoluene	µg/L	2	--	--	0
3-Dinitrobenzene	µg/L	2	--	--	0
3-Nitrotoluene	µg/L	2	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	2	--	--	0
4-Nitrotoluene	µg/L	2	--	--	0
HMX	µg/L	2	--	--	0
Nitrobenzene	µg/L	10	--	--	0
RDX	µg/L	2	--	--	0
Tetryl	µg/L	2	--	--	0
PAHs					
Acenaphthene	µg/L	10	--	--	0
Acenaphthylene	µg/L	10	--	--	0
Anthracene	µg/L	10	--	--	0
Benzo(a)anthracene	µg/L	10	--	--	0
Benzo(a)pyrene	µg/L	10	--	--	0
Benzo(b)fluoranthene	µg/L	10	--	--	0
Benzo(g,h,i)perylene	µg/L	10	--	--	0
Benzo(k)fluoranthene	µg/L	10	0.0174 JP	0.0174 JP	1
Chrysene	µg/L	10	--	--	0
Dibenzo(a,h)anthracene	µg/L	10	--	--	0
Fluoranthene	µg/L	10	--	--	0
Fluorene	µg/L	10	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	10	--	--	0
Naphthalene	µg/L	10	--	--	0
Phenanthrene	µg/L	10	--	--	0
Pyrene	µg/L	10	--	--	0
PCBs					
Aroclor-1016	µg/L	6	--	--	0
Aroclor-1221	µg/L	6	--	--	0
Aroclor-1232	µg/L	6	--	--	0

* Data qualifier included with concentration value

Table 4-105
Exposure Unit 11
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	6	--	--	0
Aroclor-1248	µg/L	6	--	--	0
Aroclor-1254	µg/L	6	--	--	0
Aroclor-1260	µg/L	6	--	--	0
Pesticides					
4,4'-DDD	µg/L	6	--	--	0
4,4'-DDE	µg/L	6	0.0135 J	0.0546	2
4,4'-DDT	µg/L	6	0.0568	0.0568	1
Aldrin	µg/L	6	--	--	0
alpha-BHC	µg/L	6	--	--	0
alpha-Chlordane	µg/L	6	--	--	0
beta-BHC	µg/L	6	--	--	0
delta-BHC	µg/L	6	--	--	0
Dieldrin	µg/L	6	--	--	0
Endosulfan I	µg/L	6	--	--	0
Endosulfan II	µg/L	6	--	--	0
Endosulfan sulfate	µg/L	6	--	--	0
Endrin	µg/L	6	--	--	0
Endrin aldehyde	µg/L	6	--	--	0
Endrin ketone	µg/L	6	--	--	0
gamma-BHC (Lindane)	µg/L	6	--	--	0
gamma-Chlordane	µg/L	6	--	--	0
Heptachlor	µg/L	6	--	--	0
Heptachlor epoxide	µg/L	6	--	--	0
Methoxychlor	µg/L	6	--	--	0
Toxaphene	µg/L	6	--	--	0
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	9	--	--	0
Alpha, Dissolved	pCi/L	6	2.44	19	6
Americium-241, Dissolved	pCi/L	9	--	--	0
Beta, Dissolved	pCi/L	6	3.53	9.78	5
Cesium-137, Dissolved	pCi/L	9	--	--	0
Cobalt-60, Dissolved	pCi/L	9	--	--	0
Potassium-40, Dissolved	pCi/L	1	123	123	1
Protactinium-231, Dissolved	pCi/L	9	--	--	0
Radium-226, Dissolved	pCi/L	9	0.287	6.22	3
Radium-228, Dissolved	pCi/L	9	0.906	0.906	1
Thorium-228, Dissolved	pCi/L	9	1.8	1.8	1
Thorium-230, Dissolved	pCi/L	9	0.137	11.8	8
Thorium-232, Dissolved	pCi/L	9	0.938	0.938	1
Total Activity, Dissolved	pCi/mL	5	--	--	0
Total Uranium, Dissolved	µg/L	8	8.13	51	8
Uranium-234, Dissolved	pCi/L	9	3.48	23.6	9
Uranium-235, Dissolved	pCi/L	9	0.177	0.901	9

* Data qualifier included with concentration value

Table 4-105
Exposure Unit 11
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Uranium-238, Dissolved	pCi/L	9	2.67	45.7	9
Radionuclides, Total					
Actinium-227	pCi/L	9	--	--	0
Alpha	pCi/L	13	12.7	102	11
Americium-241	pCi/L	9	--	--	0
Beta	pCi/L	13	4.48	144	12
Cesium-137	pCi/L	9	--	--	0
Cobalt-60	pCi/L	9	--	--	0
Protactinium-231	pCi/L	9	--	--	0
Radium-226	pCi/L	14	0.469 J	12.3	8
Radium-228	pCi/L	9	1.91	48.3	3
Thorium-228	pCi/L	14	0.164 J	4.02	8
Thorium-230	pCi/L	14	0.194	3.71	7
Thorium-232	pCi/L	14	0.0491	2.52	8
Total Activity	pCi/mL	5	--	--	0
Total Uranium	μg/L	13	1.03	32.5	12
Uranium-234	pCi/L	14	0.531	15	13
Uranium-235	pCi/L	14	0.159	1.92	10
Uranium-238	pCi/L	14	0.433	11	13
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/L	10	--	--	0
1,2-Dichlorobenzene	μg/L	10	--	--	0
1,3-Dichlorobenzene	μg/L	10	--	--	0
1,4-Dichlorobenzene	μg/L	10	--	--	0
2,4,5-Trichlorophenol	μg/L	10	--	--	0
2,4,6-Trichlorophenol	μg/L	10	--	--	0
2,4-Dichlorophenol	μg/L	10	--	--	0
2,4-Dimethylphenol	μg/L	10	--	--	0
2,4-Dinitrophenol	μg/L	10	--	--	0
2-Chloronaphthalene	μg/L	10	--	--	0
2-Chlorophenol	μg/L	10	--	--	0
2-Methyl-4,6-dinitrophenol	μg/L	20	--	--	0
2-Methylnaphthalene	μg/L	10	--	--	0
2-Nitroaniline	μg/L	10	--	--	0
2-Nitrophenol	μg/L	10	--	--	0
3,3'-Dichlorobenzidine	μg/L	10	--	--	0
3-Nitroaniline	μg/L	10	--	--	0
4-Bromophenylphenylether	μg/L	10	--	--	0
4-Chloro-3-methylphenol	μg/L	10	--	--	0
4-Chloroaniline	μg/L	10	--	--	0
4-Chlorophenylphenylether	μg/L	10	--	--	0
4-Nitroaniline	μg/L	10	--	--	0
4-Nitrophenol	μg/L	10	--	--	0
Benzoic Acid	μg/L	5	--	--	0

* Data qualifier included with concentration value

Table 4-105
Exposure Unit 11
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethoxy)methane	µg/L	10	--	--	0
bis(2-Chloroethyl)ether	µg/L	10	--	--	0
bis(2-Chloroisopropyl)ether	µg/L	10	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	10	--	--	0
Butylbenzylphthalate	µg/L	10	--	--	0
Carbazole	µg/L	10	--	--	0
Dibenzofuran	µg/L	10	--	--	0
Diethylphthalate	µg/L	10	--	--	0
Dimethylphthalate	µg/L	10	--	--	0
Di-n-butylphthalate	µg/L	10	21.4	21.4	1
Di-n-octylphthalate	µg/L	10	--	--	0
Diphenylamine	µg/L	5	--	--	0
Hexachlorobenzene	µg/L	10	--	--	0
Hexachlorobutadiene	µg/L	10	--	--	0
Hexachlorocyclopentadiene	µg/L	10	--	--	0
Hexachloroethane	µg/L	10	--	--	0
Isophorone	µg/L	10	--	--	0
m,p-Cresols	µg/L	10	--	--	0
N-Nitroso-di-n-propylamine	µg/L	10	--	--	0
N-Nitrosodiphenylamine	µg/L	5	--	--	0
o-Cresol	µg/L	10	--	--	0
Pentachlorophenol	µg/L	10	--	--	0
Phenol	µg/L	10	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/L	10	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	11	--	--	0
1,1,2-Trichloroethane	µg/L	11	--	--	0
1,1-Dichloroethane	µg/L	11	--	--	0
1,1-Dichloroethene	µg/L	11	--	--	0
1,2-Dichloroethane	µg/L	11	--	--	0
1,2-Dichloropropane	µg/L	11	--	--	0
2-Butanone	µg/L	11	1.7 J	1.7 J	1
2-Hexanone	µg/L	11	--	--	0
4-Methyl-2-pentanone	µg/L	11	--	--	0
Acetone	µg/L	11	3 J	7.56	3
Benzene	µg/L	11	--	--	0
Bromodichloromethane	µg/L	11	--	--	0
Bromoform	µg/L	11	--	--	0
Bromomethane	µg/L	11	--	--	0
Carbon disulfide	µg/L	11	0.6 J	0.6 J	1
Carbon tetrachloride	µg/L	11	--	--	0
Chlorobenzene	µg/L	11	--	--	0
Chloroethane	µg/L	11	--	--	0
Chloroform	µg/L	11	--	--	0

* Data qualifier included with concentration value

Table 4-105
Exposure Unit 11
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chloromethane	µg/L	11	--	--	0
cis-1,2-Dichloroethene	µg/L	11	--	--	0
cis-1,3-Dichloropropene	µg/L	11	--	--	0
Dibromochloromethane	µg/L	11	--	--	0
Ethylbenzene	µg/L	11	--	--	0
Methylene chloride	µg/L	11	--	--	0
Styrene	µg/L	11	--	--	0
Tetrachloroethene	µg/L	11	--	--	0
Toluene	µg/L	11	0.29 J	0.29 J	1
trans-1,2-Dichloroethene	µg/L	11	--	--	0
trans-1,3-Dichloropropene	µg/L	11	--	--	0
Trichloroethene	µg/L	11	--	--	0
Vinyl chloride	µg/L	11	--	--	0
Xylenes (total)	µg/L	11	--	--	0

* Data qualifier included with concentration value

Table 4-106
Exposure Unit 12
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	5	34.9 B	34.9 B	1
Antimony, Dissolved	µg/L	5	0.132 B	5.7 B	4
Arsenic, Dissolved	µg/L	5	1.58 J	6.6 B	5
Barium, Dissolved	µg/L	5	7.33	50.6	5
Beryllium, Dissolved	µg/L	5	0.4 B	0.4 B	1
Boron, Dissolved	µg/L	5	99.6	528	5
Cadmium, Dissolved	µg/L	5	--	--	0
Calcium, Dissolved	µg/L	5	118000	501000	5
Chromium, Dissolved	µg/L	5	--	--	0
Cobalt, Dissolved	µg/L	5	1.24 B	2.9 B	2
Copper, Dissolved	µg/L	5	2.38 B	4.9 B	4
Iron, Dissolved	µg/L	5	33.8 B	10500	2
Lead, Dissolved	µg/L	5	0.049 B	0.049 B	1
Lithium, Dissolved	µg/L	5	2.6 BE	176	5
Magnesium, Dissolved	µg/L	5	90700 E	410000	5
Manganese, Dissolved	µg/L	5	28.3	979	5
Mercury, Dissolved	µg/L	5	--	--	0
Nickel, Dissolved	µg/L	5	2.5 B	5.55	2
Potassium, Dissolved	µg/L	5	1140 E	11600	5
Selenium, Dissolved	µg/L	5	0.631 B	5	4
Silver, Dissolved	µg/L	5	0.019 B	0.21 B	3
Sodium, Dissolved	µg/L	5	18200	113000	5
Thallium, Dissolved	µg/L	5	0.005 B	0.432 BN	3
Vanadium, Dissolved	µg/L	5	2.38 B	2.38 B	1
Zinc, Dissolved	µg/L	5	2 B	40.5 B	3
Metals, Total					
Aluminum	µg/L	5	1660	125000	5
Antimony	µg/L	5	0.125 B	0.125 B	1
Arsenic	µg/L	5	3.25	30.9 E	5
Barium	µg/L	5	30	764	5
Beryllium	µg/L	5	0.62 B	5.3 B	2
Boron	µg/L	5	113	543	5
Cadmium	µg/L	5	--	--	0
Calcium	µg/L	5	118000	754000	5
Chromium	µg/L	5	2.05 B	177	5
Cobalt	µg/L	5	1.59 B	81.7	4
Copper	µg/L	5	6.16	216	5
Iron	µg/L	5	2840	191000	5
Lead	µg/L	5	0.96 B	49	5
Lithium	µg/L	5	8.97 B	258	5
Magnesium	µg/L	5	124000 E	444000	5
Manganese	µg/L	5	149	5310	5
Mercury	µg/L	5	--	--	0

* Data qualifier included with concentration value

Table 4-106
Exposure Unit 12
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	5	2.65 B	193	5
Potassium	µg/L	5	2420 E	34500	5
Selenium	µg/L	5	0.616 B	9.5	5
Silver	µg/L	5	0.026 B	0.79 B	5
Sodium	µg/L	5	31900	117000	5
Thallium	µg/L	5	0.86 B	0.86 B	1
Vanadium	µg/L	5	2.62 B	251	5
Zinc	µg/L	5	15.9	452	3
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	2	--	--	0
2,4,6-Trinitrotoluene	µg/L	2	--	--	0
2,4-Dinitrotoluene	µg/L	4	--	--	0
2,6-Dinitrotoluene	µg/L	4	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	2	--	--	0
2-Nitrotoluene	µg/L	2	--	--	0
3-Dinitrobenzene	µg/L	2	--	--	0
3-Nitrotoluene	µg/L	2	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	2	--	--	0
4-Nitrotoluene	µg/L	2	--	--	0
HMX	µg/L	2	--	--	0
Nitrobenzene	µg/L	4	--	--	0
RDX	µg/L	2	--	--	0
Tetryl	µg/L	2	--	--	0
PAHs					
Acenaphthene	µg/L	4	--	--	0
Acenaphthylene	µg/L	4	--	--	0
Anthracene	µg/L	4	--	--	0
Benzo(a)anthracene	µg/L	4	--	--	0
Benzo(a)pyrene	µg/L	4	--	--	0
Benzo(b)fluoranthene	µg/L	4	--	--	0
Benzo(g,h,i)perylene	µg/L	4	--	--	0
Benzo(k)fluoranthene	µg/L	4	--	--	0
Chrysene	µg/L	4	--	--	0
Dibenzo(a,h)anthracene	µg/L	4	--	--	0
Fluoranthene	µg/L	4	0.0354 J	0.0354 J	1
Fluorene	µg/L	4	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	4	--	--	0
Naphthalene	µg/L	4	--	--	0
Phenanthrene	µg/L	4	--	--	0
Pyrene	µg/L	4	--	--	0
PCBs					
Aroclor-1016	µg/L	2	--	--	0
Aroclor-1221	µg/L	2	--	--	0
Aroclor-1232	µg/L	2	--	--	0

* Data qualifier included with concentration value

Table 4-106
Exposure Unit 12
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	2	--	--	0
Aroclor-1248	µg/L	2	--	--	0
Aroclor-1254	µg/L	2	--	--	0
Aroclor-1260	µg/L	2	--	--	0
Pesticides					
4,4'-DDD	µg/L	2	--	--	0
4,4'-DDE	µg/L	2	--	--	0
4,4'-DDT	µg/L	2	--	--	0
Aldrin	µg/L	2	--	--	0
alpha-BHC	µg/L	2	--	--	0
alpha-Chlordane	µg/L	2	--	--	0
beta-BHC	µg/L	2	--	--	0
delta-BHC	µg/L	2	--	--	0
Dieldrin	µg/L	2	--	--	0
Endosulfan I	µg/L	2	--	--	0
Endosulfan II	µg/L	2	--	--	0
Endosulfan sulfate	µg/L	2	--	--	0
Endrin	µg/L	2	--	--	0
Endrin aldehyde	µg/L	2	--	--	0
Endrin ketone	µg/L	2	--	--	0
gamma-BHC (Lindane)	µg/L	2	--	--	0
gamma-Chlordane	µg/L	2	--	--	0
Heptachlor	µg/L	2	--	--	0
Heptachlor epoxide	µg/L	2	--	--	0
Methoxychlor	µg/L	2	--	--	0
Toxaphene	µg/L	2	--	--	0
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	3	--	--	0
Alpha, Dissolved	pCi/L	1	36.9	36.9	1
Americium-241, Dissolved	pCi/L	3	--	--	0
Beta, Dissolved	pCi/L	1	21.1	21.1	1
Cesium-137, Dissolved	pCi/L	3	--	--	0
Cobalt-60, Dissolved	pCi/L	3	--	--	0
Protactinium-231, Dissolved	pCi/L	3	--	--	0
Radium-226, Dissolved	pCi/L	3	--	--	0
Radium-228, Dissolved	pCi/L	3	--	--	0
Thorium-228, Dissolved	pCi/L	3	--	--	0
Thorium-230, Dissolved	pCi/L	3	0.29	0.29	1
Thorium-232, Dissolved	pCi/L	3	--	--	0
Total Uranium, Dissolved	µg/L	3	11.7	45.8	3
Uranium-234, Dissolved	pCi/L	3	17.1	20.1	3
Uranium-235, Dissolved	pCi/L	3	0.38	2.61	3
Uranium-238, Dissolved	pCi/L	3	13.9	15.7	3
Radionuclides, Total					

* Data qualifier included with concentration value

Table 4-106
Exposure Unit 12
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Actinium-227	pCi/L	4	--	--	0
Alpha	pCi/L	6	12.2	140	6
Americium-241	pCi/L	4	--	--	0
Beta	pCi/L	6	14.6	49.3	6
Cesium-137	pCi/L	4	--	--	0
Cobalt-60	pCi/L	4	--	--	0
Protactinium-231	pCi/L	4	--	--	0
Radium-226	pCi/L	8	0.733	3.57	4
Radium-228	pCi/L	4	20.2	20.2	1
Thorium-228	pCi/L	8	0.281	2.57	6
Thorium-230	pCi/L	8	0.165	1.34	7
Thorium-232	pCi/L	8	0.0717	0.792	7
Total Uranium	μg/L	8	10.3	145	8
Uranium-234	pCi/L	8	4.93	48.8	8
Uranium-235	pCi/L	8	0.128	4.15	8
Uranium-238	pCi/L	8	3.55	41.2	8
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/L	4	--	--	0
1,2-Dichlorobenzene	μg/L	4	--	--	0
1,3-Dichlorobenzene	μg/L	4	--	--	0
1,4-Dichlorobenzene	μg/L	4	--	--	0
2,4,5-Trichlorophenol	μg/L	4	--	--	0
2,4,6-Trichlorophenol	μg/L	4	--	--	0
2,4-Dichlorophenol	μg/L	4	--	--	0
2,4-Dimethylphenol	μg/L	4	--	--	0
2,4-Dinitrophenol	μg/L	4	--	--	0
2-Chloronaphthalene	μg/L	4	--	--	0
2-Chlorophenol	μg/L	4	--	--	0
2-Methyl-4,6-dinitrophenol	μg/L	8	--	--	0
2-Methylnaphthalene	μg/L	4	--	--	0
2-Nitroaniline	μg/L	4	--	--	0
2-Nitrophenol	μg/L	4	--	--	0
3,3'-Dichlorobenzidine	μg/L	4	--	--	0
3-Nitroaniline	μg/L	4	--	--	0
4-Bromophenylphenylether	μg/L	4	--	--	0
4-Chloro-3-methylphenol	μg/L	4	--	--	0
4-Chloroaniline	μg/L	4	--	--	0
4-Chlorophenylphenylether	μg/L	4	--	--	0
4-Nitroaniline	μg/L	4	--	--	0
4-Nitrophenol	μg/L	4	--	--	0
Benzoic Acid	μg/L	3	--	--	0
bis(2-Chloroethoxy)methane	μg/L	4	--	--	0
bis(2-Chloroethyl)ether	μg/L	4	--	--	0
bis(2-Chloroisopropyl)ether	μg/L	4	--	--	0

* Data qualifier included with concentration value

Table 4-106
Exposure Unit 12
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Ethylhexyl)phthalate	µg/L	4	--	--	0
Butylbenzylphthalate	µg/L	4	--	--	0
Carbazole	µg/L	4	--	--	0
Dibenzofuran	µg/L	4	--	--	0
Diethylphthalate	µg/L	4	--	--	0
Dimethylphthalate	µg/L	4	--	--	0
Di-n-butylphthalate	µg/L	4	50.7	50.7	1
Di-n-octylphthalate	µg/L	4	--	--	0
Diphenylamine	µg/L	3	--	--	0
Hexachlorobenzene	µg/L	4	--	--	0
Hexachlorobutadiene	µg/L	4	--	--	0
Hexachlorocyclopentadiene	µg/L	4	--	--	0
Hexachloroethane	µg/L	4	--	--	0
Isophorone	µg/L	4	--	--	0
m,p-Cresols	µg/L	4	--	--	0
N-Nitroso-di-n-propylamine	µg/L	4	--	--	0
N-Nitrosodiphenylamine	µg/L	1	--	--	0
o-Cresol	µg/L	4	--	--	0
Pentachlorophenol	µg/L	4	7.4 J	7.4 J	1
Phenol	µg/L	4	7.15 J	7.15 J	1
Volatile Organics					
1,1,1-Trichloroethane	µg/L	7	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	7	--	--	0
1,1,2-Trichloroethane	µg/L	7	--	--	0
1,1-Dichloroethane	µg/L	7	--	--	0
1,1-Dichloroethene	µg/L	7	--	--	0
1,2-Dichloroethane	µg/L	7	--	--	0
1,2-Dichloropropane	µg/L	7	--	--	0
2-Butanone	µg/L	7	--	--	0
2-Hexanone	µg/L	7	--	--	0
4-Methyl-2-pentanone	µg/L	7	--	--	0
Acetone	µg/L	7	1.7 J	2.9 J	2
Benzene	µg/L	7	--	--	0
Bromodichloromethane	µg/L	7	--	--	0
Bromoform	µg/L	7	--	--	0
Bromomethane	µg/L	7	--	--	0
Carbon disulfide	µg/L	7	--	--	0
Carbon tetrachloride	µg/L	7	--	--	0
Chlorobenzene	µg/L	7	--	--	0
Chloroethane	µg/L	7	--	--	0
Chloroform	µg/L	7	--	--	0
Chloromethane	µg/L	7	--	--	0
cis-1,2-Dichloroethene	µg/L	7	--	--	0
cis-1,3-Dichloropropene	µg/L	7	--	--	0

* Data qualifier included with concentration value

Table 4-106
Exposure Unit 12
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Dibromochloromethane	μg/L	7	--	--	0
Ethylbenzene	μg/L	7	--	--	0
Methylene chloride	μg/L	7	--	--	0
Styrene	μg/L	7	--	--	0
Tetrachloroethene	μg/L	7	--	--	0
Toluene	μg/L	7	--	--	0
trans-1,2-Dichloroethene	μg/L	7	--	--	0
trans-1,3-Dichloropropene	μg/L	7	--	--	0
Trichloroethene	μg/L	7	--	--	0
Vinyl chloride	μg/L	7	--	--	0
Xylenes (total)	μg/L	7	--	--	0

* Data qualifier included with concentration value

Table 4-107
Exposure Unit 13
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	10	17.4 B	108	5
Antimony, Dissolved	µg/L	11	0.206 B	0.307 J	2
Arsenic, Dissolved	µg/L	11	1.7 B	10.5	10
Barium, Dissolved	µg/L	11	7.72	51.1	11
Beryllium, Dissolved	µg/L	11	0.25 J	0.271 B	2
Boron, Dissolved	µg/L	11	146 B	17300	11
Cadmium, Dissolved	µg/L	11	--	--	0
Calcium, Dissolved	µg/L	11	156000	464000	11
Chromium, Dissolved	µg/L	11	--	--	0
Cobalt, Dissolved	µg/L	11	1.02 B	7.62	4
Copper, Dissolved	µg/L	11	2.8 B	14.7	6
Iron, Dissolved	µg/L	11	46.9 B	9790	10
Lead, Dissolved	µg/L	11	0.025 B	0.327 J	6
Lithium, Dissolved	µg/L	11	21.6 B	139	11
Magnesium, Dissolved	µg/L	11	91000	312000	11
Manganese, Dissolved	µg/L	11	80.9	1190	11
Mercury, Dissolved	µg/L	11	0.06 B	0.06 B	2
Nickel, Dissolved	µg/L	11	3.4 B	20.3	5
Potassium, Dissolved	µg/L	11	2510	18200	11
Selenium, Dissolved	µg/L	11	1.7 B	2.26 J	4
Silver, Dissolved	µg/L	11	0.008 B	1.3 B	6
Sodium, Dissolved	µg/L	11	57300	224000	11
Thallium, Dissolved	µg/L	11	0.043 J	0.56 B	4
Vanadium, Dissolved	µg/L	11	0.87 B	2.58 J	2
Zinc, Dissolved	µg/L	11	4.8 B	94.1	7
Metals, Total					
Aluminum	µg/L	11	61.6 B	232000	11
Antimony	µg/L	11	--	--	0
Arsenic	µg/L	11	3.3 BE	96.9	10
Barium	µg/L	11	8.94	1320	11
Beryllium	µg/L	11	0.23 J	9.3	4
Boron	µg/L	11	131	20700	11
Cadmium	µg/L	11	0.908 B	1.08 B	2
Calcium	µg/L	11	157000	2080000	11
Chromium	µg/L	11	1.54 J	335	6
Cobalt	µg/L	11	1.4	203	9
Copper	µg/L	11	3.36 B	699	11
Iron	µg/L	11	56 B	419000	11
Lead	µg/L	11	0.195 B	109	10
Lithium	µg/L	11	24.8 B	476	11
Magnesium	µg/L	11	93200	568000	11
Manganese	µg/L	11	281	26200	11
Mercury	µg/L	11	0.07 B	0.15 B	3

* Data qualifier included with concentration value

Table 4-107
Exposure Unit 13
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	11	1.43 J	455	9
Potassium	µg/L	11	2820	35700	11
Selenium	µg/L	11	1.5 B	22.4	5
Silver	µg/L	11	0.237 J	1.4 B	4
Sodium	µg/L	11	34300	190000	11
Thallium	µg/L	11	0.473 J	0.81 B	3
Vanadium	µg/L	11	2.84 B	441	7
Zinc	µg/L	11	37.9	1080	9
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	9	--	--	0
2,4,6-Trinitrotoluene	µg/L	9	--	--	0
2,4-Dinitrotoluene	µg/L	17	--	--	0
2,6-Dinitrotoluene	µg/L	17	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	9	--	--	0
2-Nitrotoluene	µg/L	9	--	--	0
3-Dinitrobenzene	µg/L	9	--	--	0
3-Nitrotoluene	µg/L	9	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	9	--	--	0
4-Nitrotoluene	µg/L	9	--	--	0
HMX	µg/L	9	--	--	0
Nitrobenzene	µg/L	17	--	--	0
RDX	µg/L	9	--	--	0
Tetryl	µg/L	9	0.032 J	0.032 J	1
PAHs					
Acenaphthene	µg/L	17	--	--	0
Acenaphthylene	µg/L	17	--	--	0
Anthracene	µg/L	17	--	--	0
Benzo(a)anthracene	µg/L	17	--	--	0
Benzo(a)pyrene	µg/L	17	--	--	0
Benzo(b)fluoranthene	µg/L	17	--	--	0
Benzo(g,h,i)perylene	µg/L	17	--	--	0
Benzo(k)fluoranthene	µg/L	17	--	--	0
Chrysene	µg/L	17	--	--	0
Dibenzo(a,h)anthracene	µg/L	17	--	--	0
Fluoranthene	µg/L	17	0.0155 JP	0.0155 JP	1
Fluorene	µg/L	17	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	17	--	--	0
Naphthalene	µg/L	17	--	--	0
Phenanthrene	µg/L	17	0.669 J	0.669 J	1
Pyrene	µg/L	17	--	--	0
PCBs					
Aroclor-1016	µg/L	11	--	--	0
Aroclor-1221	µg/L	11	--	--	0
Aroclor-1232	µg/L	11	--	--	0

* Data qualifier included with concentration value

Table 4-107
Exposure Unit 13
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	11	--	--	0
Aroclor-1248	µg/L	11	--	--	0
Aroclor-1254	µg/L	11	--	--	0
Aroclor-1260	µg/L	11	--	--	0
Pesticides					
4,4'-DDD	µg/L	11	0.0292 J	0.0292 J	1
4,4'-DDE	µg/L	11	0.0158 J	0.0356 J	2
4,4'-DDT	µg/L	11	0.0267 J	0.0267 J	1
Aldrin	µg/L	11	--	--	0
alpha-BHC	µg/L	11	--	--	0
alpha-Chlordane	µg/L	11	--	--	0
beta-BHC	µg/L	11	--	--	0
delta-BHC	µg/L	11	--	--	0
Dieldrin	µg/L	11	0.0089	0.0089	1
Endosulfan I	µg/L	11	--	--	0
Endosulfan II	µg/L	11	0.0155 J	0.0155 J	1
Endosulfan sulfate	µg/L	11	--	--	0
Endrin	µg/L	11	0.0114 J	0.0114 J	1
Endrin aldehyde	µg/L	11	--	--	0
Endrin ketone	µg/L	11	--	--	0
gamma-BHC (Lindane)	µg/L	11	--	--	0
gamma-Chlordane	µg/L	11	--	--	0
Heptachlor	µg/L	11	--	--	0
Heptachlor epoxide	µg/L	11	--	--	0
Methoxychlor	µg/L	11	--	--	0
Toxaphene	µg/L	11	--	--	0
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	6	--	--	0
Alpha, Dissolved	pCi/L	5	6.62	44.7	5
Americium-241, Dissolved	pCi/L	6	--	--	0
Beta, Dissolved	pCi/L	5	5.13	26.5	5
Cesium-137, Dissolved	pCi/L	6	3.59	3.59	1
Cobalt-60, Dissolved	pCi/L	6	--	--	0
Protactinium-231, Dissolved	pCi/L	6	--	--	0
Radium-226, Dissolved	pCi/L	6	0.673	0.767	2
Radium-228, Dissolved	pCi/L	6	0.755	1.12	2
Thorium-228, Dissolved	pCi/L	9	0.359	0.359	1
Thorium-230, Dissolved	pCi/L	6	0.214	0.648	3
Thorium-232, Dissolved	pCi/L	6	--	--	0
Total Activity, Dissolved	pCi/mL	2	--	--	0
Total Uranium, Dissolved	µg/L	6	1.67	55.4	6
Uranium-234, Dissolved	pCi/L	9	0.716	23.4	9
Uranium-235, Dissolved	pCi/L	9	0.318	2.55	8
Uranium-238, Dissolved	pCi/L	9	5.22	17.2	8

* Data qualifier included with concentration value

Table 4-107
Exposure Unit 13
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides, Total					
Actinium-227	pCi/L	9	--	--	0
Alpha	pCi/L	21	7.41	69.8	20
Americium-241	pCi/L	9	--	--	0
Beta	pCi/L	21	6.67	26.2	21
Cesium-137	pCi/L	9	27.4	27.4	1
Cobalt-60	pCi/L	9	--	--	0
Protactinium-231	pCi/L	9	--	--	0
Radium-226	pCi/L	20	0.463	7.98	13
Radium-228	pCi/L	9	--	--	0
Thorium-228	pCi/L	21	0.108	1.33	12
Thorium-230	pCi/L	21	0.105	1.31	14
Thorium-232	pCi/L	21	0.127	0.767	11
Total Activity	pCi/mL	2	--	--	0
Total Uranium	μg/L	21	1.08	46.3	21
Uranium-234	pCi/L	21	0.554	25.6	21
Uranium-235	pCi/L	21	0.261 J	1.72 J	19
Uranium-238	pCi/L	21	0.408	19.2	21
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/L	17	--	--	0
1,2-Dichlorobenzene	μg/L	17	--	--	0
1,3-Dichlorobenzene	μg/L	17	--	--	0
1,4-Dichlorobenzene	μg/L	17	--	--	0
2,4,5-Trichlorophenol	μg/L	17	--	--	0
2,4,6-Trichlorophenol	μg/L	17	--	--	0
2,4-Dichlorophenol	μg/L	17	--	--	0
2,4-Dimethylphenol	μg/L	17	--	--	0
2,4-Dinitrophenol	μg/L	17	--	--	0
2-Chloronaphthalene	μg/L	17	--	--	0
2-Chlorophenol	μg/L	17	--	--	0
2-Methyl-4,6-dinitrophenol	μg/L	34	--	--	0
2-Methylnaphthalene	μg/L	17	--	--	0
2-Nitroaniline	μg/L	17	--	--	0
2-Nitrophenol	μg/L	17	--	--	0
3,3'-Dichlorobenzidine	μg/L	17	--	--	0
3-Nitroaniline	μg/L	17	--	--	0
4-Bromophenylphenylether	μg/L	17	--	--	0
4-Chloro-3-methylphenol	μg/L	17	--	--	0
4-Chloroaniline	μg/L	17	--	--	0
4-Chlorophenylphenylether	μg/L	17	--	--	0
4-Nitroaniline	μg/L	17	--	--	0
4-Nitrophenol	μg/L	17	--	--	0
Benzoic Acid	μg/L	12	--	--	0
bis(2-Chloroethoxy)methane	μg/L	17	--	--	0

* Data qualifier included with concentration value

Table 4-107
Exposure Unit 13
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethyl)ether	µg/L	17	--	--	0
bis(2-Chloroisopropyl)ether	µg/L	17	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	17	3.14 J	41.4	3
Butylbenzylphthalate	µg/L	17	--	--	0
Carbazole	µg/L	17	--	--	0
Dibenzofuran	µg/L	17	--	--	0
Diethylphthalate	µg/L	17	--	--	0
Dimethylphthalate	µg/L	17	--	--	0
Di-n-butylphthalate	µg/L	17	--	--	0
Di-n-octylphthalate	µg/L	17	--	--	0
Diphenylamine	µg/L	12	--	--	0
Hexachlorobenzene	µg/L	17	--	--	0
Hexachlorobutadiene	µg/L	17	--	--	0
Hexachlorocyclopentadiene	µg/L	17	--	--	0
Hexachloroethane	µg/L	17	--	--	0
Isophorone	µg/L	17	--	--	0
m,p-Cresols	µg/L	17	--	--	0
N-Nitroso-di-n-propylamine	µg/L	17	--	--	0
N-Nitrosodiphenylamine	µg/L	5	--	--	0
o-Cresol	µg/L	17	--	--	0
Pentachlorophenol	µg/L	17	--	--	0
Phenol	µg/L	17	12	12	1
Volatile Organics					
1,1,1-Trichloroethane	µg/L	21	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	21	--	--	0
1,1,2-Trichloroethane	µg/L	21	--	--	0
1,1-Dichloroethane	µg/L	21	--	--	0
1,1-Dichloroethene	µg/L	21	4.5	4.5	1
1,2-Dichloroethane	µg/L	21	0.99 J	1.1	2
1,2-Dichloropropane	µg/L	21	--	--	0
2-Butanone	µg/L	21	13.6	64	2
2-Hexanone	µg/L	21	--	--	0
4-Methyl-2-pentanone	µg/L	21	--	--	0
Acetone	µg/L	21	2.8 J	11	6
Benzene	µg/L	21	--	--	0
Bromodichloromethane	µg/L	21	--	--	0
Bromoform	µg/L	21	--	--	0
Bromomethane	µg/L	21	--	--	0
Carbon disulfide	µg/L	21	--	--	0
Carbon tetrachloride	µg/L	21	--	--	0
Chlorobenzene	µg/L	21	--	--	0
Chloroethane	µg/L	21	--	--	0
Chloroform	µg/L	21	--	--	0
Chloromethane	µg/L	21	1.3	1.9	4

* Data qualifier included with concentration value

Table 4-107
Exposure Unit 13
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
cis-1,2-Dichloroethene	μg/L	21	846 D	846 D	1
cis-1,3-Dichloropropene	μg/L	21	--	--	0
Dibromochloromethane	μg/L	21	--	--	0
Ethylbenzene	μg/L	21	--	--	0
Methylene chloride	μg/L	21	18	27	4
Styrene	μg/L	21	--	--	0
Tetrachloroethene	μg/L	21	0.46 J	0.52 J	2
Toluene	μg/L	21	--	--	0
trans-1,2-Dichloroethene	μg/L	21	11.4	11.4	1
trans-1,3-Dichloropropene	μg/L	21	--	--	0
Trichloroethene	μg/L	21	9580 D	9580 D	1
Vinyl chloride	μg/L	21	--	--	0
Xylenes (total)	μg/L	21	--	--	0

* Data qualifier included with concentration value

Table 4-108
Exposure Unit 14
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	4	50.5	73.5 B	2
Antimony, Dissolved	µg/L	4	0.335 B	2.7 B	2
Arsenic, Dissolved	µg/L	4	2.3 B	8.6 B	4
Barium, Dissolved	µg/L	4	10.6	23.4	4
Beryllium, Dissolved	µg/L	4	--	--	0
Boron, Dissolved	µg/L	4	136	2110	4
Cadmium, Dissolved	µg/L	4	--	--	0
Calcium, Dissolved	µg/L	4	113000 E	392000	4
Chromium, Dissolved	µg/L	4	2.5 B	2.5 B	1
Cobalt, Dissolved	µg/L	4	1.43 B	2.15 B	4
Copper, Dissolved	µg/L	4	89.4	89.4	1
Iron, Dissolved	µg/L	4	27 B	428	4
Lead, Dissolved	µg/L	4	0.05 B	0.059 B	2
Lithium, Dissolved	µg/L	4	64	335 NE	4
Magnesium, Dissolved	µg/L	4	74400	202000	4
Manganese, Dissolved	µg/L	4	15.2	546	4
Mercury, Dissolved	µg/L	4	--	--	0
Nickel, Dissolved	µg/L	4	2.5 B	10.7	2
Potassium, Dissolved	µg/L	4	3910 E	23100	4
Selenium, Dissolved	µg/L	4	0.972 B	10.4 B	3
Silver, Dissolved	µg/L	4	0.09 B	0.25 B	3
Sodium, Dissolved	µg/L	4	43200 E	370000 E	4
Thallium, Dissolved	µg/L	4	0.03 B	0.152 BN	2
Vanadium, Dissolved	µg/L	4	1.21 B	3 B	3
Zinc, Dissolved	µg/L	4	0.83 B	2.9 B	2
Metals, Total					
Aluminum	µg/L	4	83.4	5940	3
Antimony	µg/L	4	0.078 B	3.4 B	2
Arsenic	µg/L	4	3.69	6.5 B	4
Barium	µg/L	4	13.2	52.1	4
Beryllium	µg/L	4	0.62 B	0.62 B	1
Boron	µg/L	4	145	2570 E	4
Cadmium	µg/L	4	0.41 B	0.41 B	1
Calcium	µg/L	4	120000 E	506000	4
Chromium	µg/L	4	1.11 B	7.4	2
Cobalt	µg/L	4	0.97 B	4.8 B	2
Copper	µg/L	4	4.43 B	625	3
Iron	µg/L	4	440	7830	4
Lead	µg/L	4	0.906 B	2.48	3
Lithium	µg/L	4	36.4	454 E	4
Magnesium	µg/L	4	107000	178000	4
Manganese	µg/L	4	229	800	4
Mercury	µg/L	4	--	--	0

* Data qualifier included with concentration value

Table 4-108
Exposure Unit 14
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	4	11.2	12.1	2
Potassium	µg/L	4	3850 E	26900	4
Selenium	µg/L	4	0.954 B	13.3 B	4
Silver	µg/L	4	0.009 B	0.8 B	4
Sodium	µg/L	4	43900 E	497000 E	4
Thallium	µg/L	4	--	--	0
Vanadium	µg/L	4	0.49 B	11.1	2
Zinc	µg/L	4	14.2	48.1	3
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	2	--	--	0
2,4,6-Trinitrotoluene	µg/L	2	--	--	0
2,4-Dinitrotoluene	µg/L	4	--	--	0
2,6-Dinitrotoluene	µg/L	4	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	2	--	--	0
2-Nitrotoluene	µg/L	2	--	--	0
3-Dinitrobenzene	µg/L	2	--	--	0
3-Nitrotoluene	µg/L	2	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	2	--	--	0
4-Nitrotoluene	µg/L	2	--	--	0
HMX	µg/L	2	--	--	0
Nitrobenzene	µg/L	4	--	--	0
RDX	µg/L	2	--	--	0
Tetryl	µg/L	2	--	--	0
PAHs					
Acenaphthene	µg/L	4	--	--	0
Acenaphthylene	µg/L	4	--	--	0
Anthracene	µg/L	4	--	--	0
Benzo(a)anthracene	µg/L	4	0.0613	0.0613	1
Benzo(a)pyrene	µg/L	4	0.0503	0.0503	1
Benzo(b)fluoranthene	µg/L	4	--	--	0
Benzo(g,h,i)perylene	µg/L	4	0.0549	0.0549	1
Benzo(k)fluoranthene	µg/L	4	0.0708	0.0708	1
Chrysene	µg/L	4	--	--	0
Dibenzo(a,h)anthracene	µg/L	4	0.0925	0.0925	1
Fluoranthene	µg/L	4	--	--	0
Fluorene	µg/L	4	--	--	0
Indeno(1,2,3-cd)pyrene	µg/L	4	0.0548	0.0548	1
Naphthalene	µg/L	4	--	--	0
Phenanthrene	µg/L	4	--	--	0
Pyrene	µg/L	4	--	--	0
PCBs					
Aroclor-1016	µg/L	2	--	--	0
Aroclor-1221	µg/L	2	--	--	0
Aroclor-1232	µg/L	2	--	--	0

* Data qualifier included with concentration value

Table 4-108
Exposure Unit 14
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	2	--	--	0
Aroclor-1248	µg/L	2	--	--	0
Aroclor-1254	µg/L	2	--	--	0
Aroclor-1260	µg/L	2	--	--	0
Pesticides					
4,4'-DDD	µg/L	2	--	--	0
4,4'-DDE	µg/L	2	--	--	0
4,4'-DDT	µg/L	2	--	--	0
Aldrin	µg/L	2	--	--	0
alpha-BHC	µg/L	2	--	--	0
alpha-Chlordane	µg/L	2	--	--	0
beta-BHC	µg/L	2	--	--	0
delta-BHC	µg/L	2	--	--	0
Dieldrin	µg/L	2	--	--	0
Endosulfan I	µg/L	2	--	--	0
Endosulfan II	µg/L	2	--	--	0
Endosulfan sulfate	µg/L	2	--	--	0
Endrin	µg/L	2	--	--	0
Endrin aldehyde	µg/L	2	--	--	0
Endrin ketone	µg/L	2	--	--	0
gamma-BHC (Lindane)	µg/L	2	--	--	0
gamma-Chlordane	µg/L	2	--	--	0
Heptachlor	µg/L	2	--	--	0
Heptachlor epoxide	µg/L	2	--	--	0
Methoxychlor	µg/L	2	--	--	0
Toxaphene	µg/L	2	--	--	0
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	4	--	--	0
Alpha, Dissolved	pCi/L	1	11.1	11.1	1
Americium-241, Dissolved	pCi/L	4	--	--	0
Beta, Dissolved	pCi/L	1	5.93	5.93	1
Cesium-137, Dissolved	pCi/L	4	--	--	0
Cobalt-60, Dissolved	pCi/L	4	--	--	0
Protactinium-231, Dissolved	pCi/L	4	--	--	0
Radium-226, Dissolved	pCi/L	4	0.809	0.809	1
Radium-228, Dissolved	pCi/L	4	--	--	0
Thorium-228, Dissolved	pCi/L	5	0.422	0.422	1
Thorium-230, Dissolved	pCi/L	4	0.324	0.324	1
Thorium-232, Dissolved	pCi/L	4	0.147	0.147	1
Total Uranium, Dissolved	µg/L	4	11.5	46	4
Uranium-234, Dissolved	pCi/L	5	5.01	19.5	5
Uranium-235, Dissolved	pCi/L	5	0.149	1	5
Uranium-238, Dissolved	pCi/L	5	4.8	14.4	5
Radionuclides, Total					

* Data qualifier included with concentration value

Table 4-108
Exposure Unit 14
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Actinium-227	pCi/L	5	--	--	0
Alpha	pCi/L	7	6.42	20	7
Americium-241	pCi/L	5	--	--	0
Beta	pCi/L	7	8.22	22.7	7
Cesium-137	pCi/L	5	3.18	3.18	1
Cobalt-60	pCi/L	5	--	--	0
Protactinium-231	pCi/L	5	--	--	0
Radium-226	pCi/L	8	1.16	2.33	4
Radium-228	pCi/L	5	--	--	0
Thorium-228	pCi/L	8	0.0438	2.02	6
Thorium-230	pCi/L	8	0.151	1.52	4
Thorium-232	pCi/L	8	0.0941	1.3	4
Total Uranium	μg/L	8	5.47	34.1	8
Uranium-234	pCi/L	8	2.92	16.9	8
Uranium-235	pCi/L	8	0.144 J	0.659	8
Uranium-238	pCi/L	8	1.92	11.8	8
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/L	4	--	--	0
1,2-Dichlorobenzene	μg/L	4	--	--	0
1,3-Dichlorobenzene	μg/L	4	--	--	0
1,4-Dichlorobenzene	μg/L	4	--	--	0
2,4,5-Trichlorophenol	μg/L	4	--	--	0
2,4,6-Trichlorophenol	μg/L	4	--	--	0
2,4-Dichlorophenol	μg/L	4	--	--	0
2,4-Dimethylphenol	μg/L	4	--	--	0
2,4-Dinitrophenol	μg/L	4	--	--	0
2-Chloronaphthalene	μg/L	4	--	--	0
2-Chlorophenol	μg/L	4	--	--	0
2-Methyl-4,6-dinitrophenol	μg/L	8	--	--	0
2-Methylnaphthalene	μg/L	4	--	--	0
2-Nitroaniline	μg/L	4	--	--	0
2-Nitrophenol	μg/L	4	--	--	0
3,3'-Dichlorobenzidine	μg/L	4	--	--	0
3-Nitroaniline	μg/L	4	--	--	0
4-Bromophenylphenylether	μg/L	4	--	--	0
4-Chloro-3-methylphenol	μg/L	4	--	--	0
4-Chloroaniline	μg/L	4	--	--	0
4-Chlorophenylphenylether	μg/L	4	--	--	0
4-Nitroaniline	μg/L	4	--	--	0
4-Nitrophenol	μg/L	4	--	--	0
Benzoic Acid	μg/L	3	--	--	0
bis(2-Chloroethoxy)methane	μg/L	4	--	--	0
bis(2-Chloroethyl)ether	μg/L	4	--	--	0
bis(2-Chloroisopropyl)ether	μg/L	4	--	--	0

* Data qualifier included with concentration value

Table 4-108
Exposure Unit 14
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Ethylhexyl)phthalate	µg/L	4	3.28 J	3.28	1
Butylbenzylphthalate	µg/L	4	--	--	0
Carbazole	µg/L	4	--	--	0
Dibenzofuran	µg/L	4	--	--	0
Diethylphthalate	µg/L	4	--	--	0
Dimethylphthalate	µg/L	4	--	--	0
Di-n-butylphthalate	µg/L	4	22.5	22.5	1
Di-n-octylphthalate	µg/L	4	--	--	0
Diphenylamine	µg/L	3	--	--	0
Hexachlorobenzene	µg/L	4	--	--	0
Hexachlorobutadiene	µg/L	4	--	--	0
Hexachlorocyclopentadiene	µg/L	4	--	--	0
Hexachloroethane	µg/L	4	--	--	0
Isophorone	µg/L	4	--	--	0
m,p-Cresols	µg/L	4	--	--	0
N-Nitroso-di-n-propylamine	µg/L	4	--	--	0
N-Nitrosodiphenylamine	µg/L	1	--	--	0
o-Cresol	µg/L	4	--	--	0
Pentachlorophenol	µg/L	4	--	--	0
Phenol	µg/L	4	6.1 J	6.1 J	1
Volatile Organics					
1,1,1-Trichloroethane	µg/L	3	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	3	--	--	0
1,1,2-Trichloroethane	µg/L	3	--	--	0
1,1-Dichloroethane	µg/L	3	--	--	0
1,1-Dichloroethene	µg/L	3	--	--	0
1,2-Dichloroethane	µg/L	3	--	--	0
1,2-Dichloropropane	µg/L	3	--	--	0
2-Butanone	µg/L	3	--	--	0
2-Hexanone	µg/L	3	--	--	0
4-Methyl-2-pentanone	µg/L	3	--	--	0
Acetone	µg/L	3	1.5 J	1.5 J	1
Benzene	µg/L	3	--	--	0
Bromodichloromethane	µg/L	3	--	--	0
Bromoform	µg/L	3	--	--	0
Bromomethane	µg/L	3	--	--	0
Carbon disulfide	µg/L	3	--	--	0
Carbon tetrachloride	µg/L	3	--	--	0
Chlorobenzene	µg/L	3	--	--	0
Chloroethane	µg/L	3	--	--	0
Chloroform	µg/L	3	--	--	0
Chloromethane	µg/L	3	--	--	0
cis-1,2-Dichloroethene	µg/L	3	--	--	0
cis-1,3-Dichloropropene	µg/L	3	--	--	0

* Data qualifier included with concentration value

Table 4-108
Exposure Unit 14
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Dibromochloromethane	μg/L	3	--	--	0
Ethylbenzene	μg/L	3	--	--	0
Methylene chloride	μg/L	3	--	--	0
Styrene	μg/L	3	--	--	0
Tetrachloroethene	μg/L	3	--	--	0
Toluene	μg/L	3	--	--	0
trans-1,2-Dichloroethene	μg/L	3	--	--	0
trans-1,3-Dichloropropene	μg/L	3	--	--	0
Trichloroethene	μg/L	3	--	--	0
Vinyl chloride	μg/L	3	--	--	0
Xylenes (total)	μg/L	3	--	--	0

* Data qualifier included with concentration value

Table 4-109
Exposure Unit 17
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	μg/L	175	6.59 B	2960 BN*	79
Antimony, Dissolved	μg/L	176	0.065 B	11.7	71
Arsenic, Dissolved	μg/L	175	0.25 B	66.8 B	150
Barium, Dissolved	μg/L	176	0.31 B	258	175
Beryllium, Dissolved	μg/L	176	0.18 B	13.3	20
Boron, Dissolved	μg/L	175	22.9	26600	175
Cadmium, Dissolved	μg/L	176	0.24 B	11.6	25
Calcium, Dissolved	μg/L	176	10800	1270000	176
Chromium, Dissolved	μg/L	176	0.64 B	38.9	30
Cobalt, Dissolved	μg/L	176	0.618 B	33.4	59
Copper, Dissolved	μg/L	176	1 B	4770	116
Iron, Dissolved	μg/L	176	2.5 B	18500	105
Lead, Dissolved	μg/L	176	0.02 B	2.41	67
Lithium, Dissolved	μg/L	176	2.6 BE	7610	175
Magnesium, Dissolved	μg/L	176	11500 E	1300000	176
Manganese, Dissolved	μg/L	176	1.27 B	3350	167
Mercury, Dissolved	μg/L	176	0.036 B	0.146 B	11
Nickel, Dissolved	μg/L	176	1.1 B	195	90
Potassium, Dissolved	μg/L	176	359 E	143000 E	176
Selenium, Dissolved	μg/L	176	0.284 B	62.7 BN*	115
Silver, Dissolved	μg/L	176	0.005 B	1.3 B	102
Sodium, Dissolved	μg/L	176	3780 E	4160000	176
Thallium, Dissolved	μg/L	176	0.005 B	11.9 B	72
Vanadium, Dissolved	μg/L	176	0.67 B	34.5	39
Zinc, Dissolved	μg/L	176	0.6 B	643	90
Metals, Total					
Aluminum	μg/L	174	8.77 B	1330000	158
Antimony	μg/L	175	0.059 B	28.2	93
Arsenic	μg/L	175	1.04 B	594	156
Barium	μg/L	175	4.9 B	6680	175
Beryllium	μg/L	175	0.18 B	54.1	68
Boron	μg/L	175	31.3 B	28700	175
Cadmium	μg/L	175	0.23 B	13.5 B	42
Calcium	μg/L	175	1640	4360000	175
Chromium	μg/L	175	0.64 B	2090	123
Cobalt	μg/L	175	0.316 B	1090	102
Copper	μg/L	175	1.73 B	2920	150
Iron	μg/L	175	10.3 B	2430000	169
Lead	μg/L	175	0.028 B	603	146
Lithium	μg/L	175	2.7 B	7370	175
Magnesium	μg/L	175	587 E	1610000	175
Manganese	μg/L	175	1.4 B	78300	171
Mercury	μg/L	175	0.033 B	1.01	35

* Data qualifier included with concentration value

Table 4-109
Exposure Unit 17
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	175	0.998 B	2340	132
Potassium	µg/L	175	1190	240000	175
Selenium	µg/L	175	0.503 B	48.6 B	120
Silver	µg/L	175	0.006 B	5.07 B	120
Sodium	µg/L	175	5020 E	2570000	175
Thallium	µg/L	175	0.006 B	14.8	82
Vanadium	µg/L	175	0.49 B	2700	96
Zinc	µg/L	175	0.74 B	4950	147
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	101	0.084 J	1.5	3
2,4,6-Trinitrotoluene	µg/L	101	--	--	0
2,4-Dinitrotoluene	µg/L	184	--	--	0
2,6-Dinitrotoluene	µg/L	184	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	101	--	--	0
2-Nitrotoluene	µg/L	101	--	--	0
3-Dinitrobenzene	µg/L	101	--	--	0
3-Nitrotoluene	µg/L	101	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	101	--	--	0
4-Nitrotoluene	µg/L	101	--	--	0
HMX	µg/L	101	0.42 J	0.42 J	1
Nitrobenzene	µg/L	184	--	--	0
RDX	µg/L	101	0.153	0.153	1
Tetryl	µg/L	101	0.032 J	0.032 J	1
PAHs					
Acenaphthene	µg/L	183	0.5	0.5	1
Acenaphthylene	µg/L	183	--	--	0
Anthracene	µg/L	183	0.05	1.06 J	2
Benzo(a)anthracene	µg/L	183	0.0226 J	0.0613	2
Benzo(a)pyrene	µg/L	183	0.0503	0.0503	1
Benzo(b)fluoranthene	µg/L	183	--	--	0
Benzo(g,h,i)perylene	µg/L	183	0.0549	0.0549	1
Benzo(k)fluoranthene	µg/L	183	0.0174 JP	0.0708	3
Chrysene	µg/L	183	--	--	0
Dibenzo(a,h)anthracene	µg/L	183	0.0343 J	0.0925	2
Fluoranthene	µg/L	183	0.0155 JP	3.27	6
Fluorene	µg/L	183	0.15	0.15	1
Indeno(1,2,3-cd)pyrene	µg/L	183	0.0267 J	0.0548	2
Naphthalene	µg/L	183	0.186 J	0.416 J	2
Phenanthrene	µg/L	183	0.01	6.93	8
Pyrene	µg/L	183	0.2	1.93	3
PCBs					
Aroclor-1016	µg/L	128	--	--	0
Aroclor-1221	µg/L	128	--	--	0
Aroclor-1232	µg/L	128	--	--	0

* Data qualifier included with concentration value

Table 4-109
Exposure Unit 17
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	128	--	--	0
Aroclor-1248	µg/L	128	--	--	0
Aroclor-1254	µg/L	128	--	--	0
Aroclor-1260	µg/L	128	0.14	0.14	1
Pesticides					
4,4'-DDD	µg/L	127	0.0279 J	0.0414	3
4,4'-DDE	µg/L	127	0.0048 J	0.055	17
4,4'-DDT	µg/L	127	0.011 J	0.078 P	18
Aldrin	µg/L	127	0.0294	0.0294	1
alpha-BHC	µg/L	127	0.0096	0.019 J	2
alpha-Chlordane	µg/L	127	--	--	0
beta-BHC	µg/L	127	0.0283	0.0283	1
delta-BHC	µg/L	127	0.0074	0.0074	1
Dieldrin	µg/L	127	0.0051	0.0288 J	3
Endosulfan I	µg/L	127	--	--	0
Endosulfan II	µg/L	127	0.0155 J	0.0241 J	2
Endosulfan sulfate	µg/L	127	0.0195 J	0.0221 J	2
Endrin	µg/L	127	0.0114 J	0.0252 J	2
Endrin aldehyde	µg/L	127	0.0152 J	0.0152 J	1
Endrin ketone	µg/L	127	0.0046	0.0072 J	2
gamma-BHC (Lindane)	µg/L	127	0.0155 J	0.0155 J	1
gamma-Chlordane	µg/L	127	0.03 P	0.03 P	1
Heptachlor	µg/L	127	0.0197 J	0.0197 J	1
Heptachlor epoxide	µg/L	128	0.016 J	0.031	2
Methoxychlor	µg/L	127	--	--	0
Toxaphene	µg/L	127	--	--	0
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	107	--	--	0
Alpha, Dissolved	pCi/L	84	2.44	610	70
Americium-241, Dissolved	pCi/L	107	--	--	0
Beta, Dissolved	pCi/L	84	1.92	453	77
Cesium-137, Dissolved	pCi/L	107	2.61	3.59	2
Cobalt-60, Dissolved	pCi/L	107	--	--	0
Plutonium-238, Dissolved	pCi/L	1	--	--	0
Potassium-40, Dissolved	pCi/L	1	123	123	1
Protactinium-231, Dissolved	pCi/L	107	--	--	0
Radium-226, Dissolved	pCi/L	107	0.277	6.22	32
Radium-228, Dissolved	pCi/L	107	0.701	2.14	20
Strontium-90, Dissolved	pCi/L	1	--	--	0
Thorium-228, Dissolved	pCi/L	138	0.169	1.8	8
Thorium-230, Dissolved	pCi/L	107	0.0904	11.8	51
Thorium-232, Dissolved	pCi/L	107	0.147	0.938	2
Total Activity, Dissolved	pCi/mL	33	--	--	0
Total Uranium, Dissolved	µg/L	102	0.381	9580	99

* Data qualifier included with concentration value

Table 4-109
Exposure Unit 17
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Uranium-234, Dissolved	pCi/L	138	0.155	319	133
Uranium-235, Dissolved	pCi/L	138	0.0933	39.1	107
Uranium-238, Dissolved	pCi/L	138	0.132	301	130
Radionuclides, Total					
Actinium-227	pCi/L	139	--	--	0
Alpha	pCi/L	223	0.278	562	191
Americium-241	pCi/L	139	--	--	0
Beta	pCi/L	223	3.89	220 J	212
Cesium-137	pCi/L	139	2.12	61.5	10
Cobalt-60	pCi/L	139	--	--	0
Plutonium-238	pCi/L	1	--	--	0
Plutonium-239/240	pCi/L	1	--	--	0
Protactinium-231	pCi/L	139	--	--	0
Radium-226	pCi/L	227	0.39	12.3	119
Radium-228	pCi/L	139	0.953	126	15
Strontium-90	pCi/L	1	--	--	0
Thorium-228	pCi/L	229	0.0438	9.06	94
Thorium-230	pCi/L	229	0.0446 J	5.3	114
Thorium-232	pCi/L	229	0.0292	5.6	98
Total Activity	pCi/mL	33	--	--	0
Total Uranium	μg/L	227	0.243	662	217
Uranium-234	pCi/L	229	0.0515 J	523	218
Uranium-235	pCi/L	229	0.0512	33.2	168
Uranium-238	pCi/L	229	0.11	543	217
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/L	182	--	--	0
1,2-Dichlorobenzene	μg/L	182	--	--	0
1,3-Dichlorobenzene	μg/L	182	--	--	0
1,4-Dichlorobenzene	μg/L	182	--	--	0
2,4,5-Trichlorophenol	μg/L	181	--	--	0
2,4,6-Trichlorophenol	μg/L	181	--	--	0
2,4-Dichlorophenol	μg/L	181	--	--	0
2,4-Dimethylphenol	μg/L	181	--	--	0
2,4-Dinitrophenol	μg/L	181	--	--	0
2-Chloronaphthalene	μg/L	182	--	--	0
2-Chlorophenol	μg/L	181	0.407 J	0.511 J	2
2-Methyl-4,6-dinitrophenol	μg/L	362	--	--	0
2-Methylnaphthalene	μg/L	179	--	--	0
2-Nitroaniline	μg/L	182	--	--	0
2-Nitrophenol	μg/L	181	--	--	0
3,3'-Dichlorobenzidine	μg/L	182	--	--	0
3-Nitroaniline	μg/L	182	--	--	0
4-Bromophenylphenylether	μg/L	182	--	--	0
4-Chloro-3-methylphenol	μg/L	181	--	--	0

* Data qualifier included with concentration value

Table 4-109
Exposure Unit 17
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
4-Chloroaniline	µg/L	182	--	--	0
4-Chlorophenylphenylether	µg/L	182	--	--	0
4-Nitroaniline	µg/L	182	--	--	0
4-Nitrophenol	µg/L	181	--	--	0
Benzoic Acid	µg/L	103	--	--	0
bis(2-Chloroethoxy)methane	µg/L	182	--	--	0
bis(2-Chloroethyl)ether	µg/L	182	1.77 J	1.77 J	1
bis(2-Chloroisopropyl)ether	µg/L	182	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	182	1.91 J	289	23
Butylbenzylphthalate	µg/L	182	--	--	0
Carbazole	µg/L	182	6.11 J	6.11 J	1
Dibenzofuran	µg/L	182	--	--	0
Diethylphthalate	µg/L	182	--	--	0
Dimethylphthalate	µg/L	182	--	--	0
Di-n-butylphthalate	µg/L	182	2.72 J	89.4	11
Di-n-octylphthalate	µg/L	182	19.6	19.6	1
Diphenylamine	µg/L	103	--	--	0
Hexachlorobenzene	µg/L	182	--	--	0
Hexachlorobutadiene	µg/L	182	--	--	0
Hexachlorocyclopentadiene	µg/L	182	--	--	0
Hexachloroethane	µg/L	182	--	--	0
Isophorone	µg/L	182	28.7	28.7	1
m,p-Cresols	µg/L	178	--	--	0
N-Nitroso-di-n-propylamine	µg/L	182	--	--	0
N-Nitrosodiphenylamine	µg/L	79	--	--	0
o-Cresol	µg/L	181	--	--	0
p-Cresol	µg/L	3	--	--	0
Pentachlorophenol	µg/L	181	7.4 J	7.4 J	1
Phenol	µg/L	181	0.291 J	57.9	20
Volatile Organics					
1,1,1-Trichloroethane	µg/L	185	6	6	1
1,1,2,2-Tetrachloroethane	µg/L	186	--	--	0
1,1,2-Trichloroethane	µg/L	186	4.29	4.29	1
1,1-Dichloroethane	µg/L	186	1	1	1
1,1-Dichloroethene	µg/L	186	2	38.9	3
1,2-Dichloroethane	µg/L	186	0.99 J	1.1	2
1,2-Dichloroethene	µg/L	3	2	2	1
1,2-Dichloropropane	µg/L	186	--	--	0
2-Butanone	µg/L	183	1.4 J	68.6	28
2-Hexanone	µg/L	186	--	--	0
4-Methyl-2-pentanone	µg/L	183	8.56	8.56	1
Acetone	µg/L	186	0.62 J	157	64
Benzene	µg/L	186	0.758 J	2.79	4
Bromodichloromethane	µg/L	186	--	--	0

* Data qualifier included with concentration value

Table 4-109
Exposure Unit 17
Groundwater Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Bromoform	µg/L	186	--	--	0
Bromomethane	µg/L	186	--	--	0
Carbon disulfide	µg/L	186	0.4 J	14.6	7
Carbon tetrachloride	µg/L	186	--	--	0
Chlorobenzene	µg/L	186	--	--	0
Chloroethane	µg/L	186	--	--	0
Chloroform	µg/L	186	0.41 J	1.37	3
Chloromethane	µg/L	186	1.3	1.9	4
cis-1,2-Dichloroethene	µg/L	183	0.87 J	14800	9
cis-1,3-Dichloropropene	µg/L	186	--	--	0
Dibromochloromethane	µg/L	179	--	--	0
Ethylbenzene	µg/L	186	0.052 J	0.36 J	5
Methylene chloride	µg/L	186	1.92 J	1680 JB	13
o-Xylene	µg/L	1	--	--	0
Styrene	µg/L	186	0.15 J	0.398 J	2
Tetrachloroethene	µg/L	186	0.46 J	103000 D	11
Toluene	µg/L	186	0.13 J	1.37	9
trans-1,2-Dichloroethene	µg/L	183	0.25 J	355 J	6
trans-1,3-Dichloropropene	µg/L	186	--	--	0
Trichloroethene	µg/L	186	1.27	21200 D	9
Vinyl chloride	µg/L	186	0.68 J	2100	8
Xylenes (total)	µg/L	185	2.04	2.5 J	2

* Data qualifier included with concentration value

Table 4-110
Exposure Unit 1
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Antimony, Dissolved	μg/L	2.4	C5-VS-GW-D300	6.4
			GWBH62-275	11.7
Beryllium, Dissolved	μg/L	0.19	GWBH62-275	0.45 B
Cobalt, Dissolved	μg/L	3	GW505-783	4.29 B
Magnesium, Dissolved	μg/L	618000	C5-VS-GW-D300	1300000
Nickel, Dissolved	μg/L	6.15	GW505-783	9.89
Metals, Total				
Aluminum	μg/L	979	C5-VS-GW-D300	987 *
			GW501-229	2480 N
			GW502-230	19100
			GW503-231	1190
			GW504-752	1370 N
Antimony	μg/L	2.34	C5-VS-GW-D300	6
			GWBH61-274	4.1 B
			GWBH62-275	5.6 B
Barium	μg/L	46.8	GW502-230	103
Beryllium	μg/L	--	GW502-230	0.82 B
Chromium	μg/L	3.19	GW502-230	21.9
Cobalt	μg/L	2.8	GW502-230	9.3
Iron	μg/L	8810	GW502-230	23500
Lead	μg/L	5.99	GW502-230	8.4 B
Magnesium	μg/L	580000	C5-VS-GW-D300	1360000
Nickel	μg/L	6.48	GW502-230	25.1
Selenium	μg/L	4.24	C5-VS-GW-D300	7.3
			GW502-230	6.7 B
			GW503-231	10 B
			GWBH62-275	6.5 B
Silver	μg/L	0.018	GW504-752	0.085 B
			GW505-783	0.163 B
			GWBH61-274	0.2 B
			GWBH62-275	0.31 B
Vanadium	μg/L	2.8	GW501-229	6
			GW502-230	34.6
			GW504-752	3.34 B
			GW505-783	5.93
Zinc	μg/L	131	GW505-3279	460
Nitroaromatics				
1,3,5-Trinitrobenzene	μg/L	--	C5-VS-GW-D300	1.4 J
			GWBH62-275	0.084 J
HMX	μg/L	--	C5-VS-GW-D300	0.42 J
Pesticides				
4,4'-DDD	μg/L	--	GW505-3279	0.0279 J

* Data qualifier included with concentration value

Table 4-110
Exposure Unit 1
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Endosulfan II	μg/L	--	GW505-3279	0.0241 J
Endosulfan sulfate	μg/L	--	GW505-3279	0.0195 J
Radionuclides, Dissolved				
Alpha, Dissolved	pCi/L	15	GW505-3279	20.5
Total Uranium, Dissolved	μg/L	16.7	GW505-3279	30.2
			GW506-753	47.2
Uranium-234, Dissolved	pCi/L	8.94	GW505-3279	14.2
			GW506-753	22.1
Uranium-235, Dissolved	pCi/L	0.512	GW505-3279	0.684
			GW506-753	0.629
Uranium-238, Dissolved	pCi/L	6.32	GW505-3279	11.9
			GW506-753	17.5
Radionuclides, Total				
Alpha	pCi/L	15	GW501-229	17.8
			GW502-230	20.8
			GW503-231	71.8
			GW505-783	20.8
			GW506-753	30.3
Radium-226	pCi/L	1.76	GW505-783	1.94
Thorium-228	pCi/L	0.25	GW503-231	0.557 J
			GW506-753	0.299
Thorium-232	pCi/L	0.229	GW503-231	0.242 J
			GW506-753	0.337
Total Uranium	μg/L	15.6	GW501-229	24.3
			GW502-230	24
			GW503-231	62.4
			GW505-3279	25.8
			GW505-783	24.4
			GW506-753	35.1
Uranium-234	pCi/L	8.73	GW501-229	12
			GW502-230	10.9
			GW503-231	24.7
			GW505-3279	11.8
			GW505-783	11.3
			GW506-753	19.2
Uranium-235	pCi/L	0.715	GW503-231	1.19
			GW505-3279	0.859
Uranium-238	pCi/L	5.79	GW501-229	9.7
			GW502-230	8.57
			GW503-231	20.3
			GW505-3279	9.12
			GW505-783	8.71
			GW506-753	16.1

* Data qualifier included with concentration value

Table 4-110
Exposure Unit 1
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Semivolatile Organics				
bis(2-Ethylhexyl)phthalate	μg/L	--	GW505-783	6.4 J
Phenol	μg/L	--	GW505-3279	0.306 J
Volatile Organics				
2-Butanone	μg/L	4.49	GW505-783	8.4
Chloroform	μg/L	--	GW505-783	0.41 J

* Data qualifier included with concentration value

Table 4-111
Exposure Unit 2
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Antimony, Dissolved	μg/L	2.4	GW402-205	3 B
			GW404-207	5.1 B
			GW808-243	3.2 B
			GW810-245	6.2 B
			GWBH50-267	3.21 B
Barium, Dissolved	μg/L	42.8	GW809-244	51.7 N*
			GW810-245	96.2
			GWBH50-3283	258
Beryllium, Dissolved	μg/L	0.19	GW809-244	0.25 B
			GW810-245	0.38 B
Magnesium, Dissolved	μg/L	618000	GW808-243	947000
Thallium, Dissolved	μg/L	0.222	GW808-243	0.79
			GW809-244	0.96
			GW810-245	0.38 B
			GWBH50-267	0.435 B
Metals, Total				
Aluminum	μg/L	979	GW401-204	2740
			GW402-205	14100 N
			GW403-206	35100 N
			GW404-207	10700 N
			GW405-208	47700
			GW406-209	48500
			GW808-243	3960
			GW809-244	12700
			GW810-245	31000
			GW822-765	1490
Antimony	μg/L	2.34	GW402-205	2.7 B
			GW404-207	5.7 B
			GWBH50-267	17.7
Arsenic	μg/L	30.6	GW405-208	38.8 B
Barium	μg/L	46.8	GW401-204	52.3
			GW402-205	67.2
			GW403-206	176
			GW404-207	57.4
			GW405-208	419 N*
			GW406-209	293
			GW809-244	117 N*
			GW810-245	452
			GWBH50-3283	269

* Data qualifier included with concentration value

Table 4-111
Exposure Unit 2
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beryllium	μg/L	--	GW402-205	0.47 B
			GW403-206	1.5 B
			GW404-207	0.37 B
			GW405-208	1.8 B
			GW406-209	1.8 B
			GW809-244	0.51 B
			GW810-245	2.1 B
Cadmium	μg/L	2.51	GW401-204	2.8 B
Calcium	μg/L	620000	GW405-208	627000
Chromium	μg/L	3.19	GW402-205	15.9
			GW403-206	42.2
			GW404-207	12.2
			GW405-208	61.9
			GW406-209	58.3
			GW808-243	5.1
			GW809-244	15.9
			GW810-245	44.2
Cobalt	μg/L	2.8	GW402-205	5.3
			GW403-206	16.5
			GW404-207	4.4 B
			GW405-208	32.9
			GW406-209	26.1
			GW809-244	6.2
			GW810-245	23.5
Iron	μg/L	8810	GW402-205	16900 EN
			GW403-206	50000 EN
			GW404-207	13400 EN
			GW405-208	90200
			GW406-209	65100
			GW809-244	17600
			GW810-245	65500
Lead	μg/L	5.99	GW403-206	15.2 E
			GW405-208	34.5 E
			GW406-209	17.4
			GW810-245	24.3
Magnesium	μg/L	580000	GW808-243	866000
			GW808A-3257	701000
Manganese	μg/L	722	GW403-206	2190
			GW405-208	7720
			GW406-209	1560
			GW810-245	3330

* Data qualifier included with concentration value

Table 4-111
Exposure Unit 2
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Nickel	µg/L	6.48	GW401-204	14 B
			GW402-205	16.7
			GW403-206	44.7
			GW404-207	16.2
			GW405-208	76.3
			GW406-209	66.7
			GW808-243	8.7
			GW809-244	17.1
			GW810-245	51.3
Selenium	µg/L	4.24	GW403-206	4.5 B
			GW405-208	17.9 B
			GW808-243	8.6 B
			GW810-245	4.7 B
			GW822-765	4.64 B
Silver	µg/L	0.018	GW401-204	0.27 B
			GW403-206	0.34 B
			GW405-208	0.45 B
			GW406-209	0.51 B
			GW808-243	0.75 B
			GW808A-3257	0.03 B
			GW810-245	0.88 B
			GW822-765	0.293 B
			GWBH50-267	0.174 B
Thallium	µg/L	1.72	GW809-244	11.3
Vanadium	µg/L	2.8	GW401-204	8.9 B
			GW402-205	27
			GW403-206	68.8
			GW404-207	21.9
			GW405-208	111
			GW406-209	88.5
			GW808-243	7.3
			GW809-244	25.6
			GW810-245	69.5
			GW822-765	4.49 B
Zinc	µg/L	131	GW405-208	220
			GW406-209	148
			GW808A-3257	135
			GW810-245	183
PAHs				
Benzo(a)anthracene	µg/L	--	GW808A-3257	0.0226 J
Benzo(k)fluoranthene	µg/L	0.0334	GW808A-3257	0.036
Dibenzo(a,h)anthracene	µg/L	--	GW808A-3257	0.0343 J
Radionuclides, Dissolved				

* Data qualifier included with concentration value

Table 4-111
Exposure Unit 2
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha, Dissolved	pCi/L	15	GW808A-3257	25.4
Thorium-228, Dissolved	pCi/L	0.162	GW808A-787	0.318
Total Uranium, Dissolved	μg/L	16.7	GW808A-3257	38.9
Uranium-234, Dissolved	pCi/L	8.94	GW808A-3257	18.3
			GW808A-787	19.1
Uranium-235, Dissolved	pCi/L	0.512	GW808A-3257	1.43
			GW808A-787	0.749
Uranium-238, Dissolved	pCi/L	6.32	GW808A-3257	15.1
			GW808A-787	15.8
Radionuclides, Total				
Alpha	pCi/L	15	GW401-204	81.1
			GW402-205	27.9
			GW403-206	53.7
			GW404-207	105
			GW405-208	45.3
			GW406-209	21
			GW808A-3257	18.4
			GW808A-787	18.8
Beta	pCi/L	50	GW403-206	75.2
			GW404-207	51.3
Cesium-137	pCi/L	--	GW404A-779	61.5
			GW810A-788	33.5
Radium-226	pCi/L	1.76	GW403-206	2.33
			GW810-245	2.02
Thorium-228	pCi/L	0.25	GW402-205	0.858 J
			GW403-206	0.594 J
			GW404-207	0.701 J
			GW405-208	1.14
			GW406-209	0.405 J
			GW808-243	0.432 J
			GW810-245	0.26 J
Thorium-232	pCi/L	0.229	GW402-205	0.503 J
			GW403-206	0.245 J
			GW404-207	0.518 J
			GW405-208	0.572 J
			GW808-243	0.324 J

* Data qualifier included with concentration value

Table 4-111
Exposure Unit 2
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	μg/L	15.6	GW401-204	42.6
			GW403-206	22.6
			GW404-207	107
			GW405-208	23
			GW406-209	21.7
			GW808-243	64.1
			GW808A-3257	37.4
			GW808A-787	46.3
Uranium-234	pCi/L	8.73	GW401-204	16.7
			GW403-206	10.7
			GW404-207	36
			GW405-208	10.6
			GW808-243	28
			GW808A-3257	15.9
			GW808A-787	18.6
Uranium-235	pCi/L	0.715	GW401-204	0.95 J
			GW404-207	1.35
			GW808-243	0.831 J
			GW808A-3257	1.07
			GW808A-787	0.967
Uranium-238	pCi/L	5.79	GW401-204	14.1
			GW403-206	8.26
			GW404-207	29.2
			GW405-208	8.86
			GW406-209	6.7
			GW808-243	19
			GW808A-3257	12.1
			GW808A-787	16.4
Semivolatile Organics				
bis(2-Ethylhexyl)phthalate	μg/L	--	GW822-765	276 D
			GWBH50-267	37.6
			GWBH50-3283	14.5
Phenol	μg/L	--	GW808A-3257	2.15 J
Volatile Organics				
2-Butanone	μg/L	4.49	GW810A-788	4.9 J
Tetrachloroethene	μg/L	--	GW810-245	1.7

* Data qualifier included with concentration value

Table 4-112
Exposure Unit 3
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Aluminum, Dissolved	µg/L	616	GW407-210	744 N
Antimony, Dissolved	µg/L	2.4	C5-AC-GW-BP3	2.5 J
			GW407-210	4.7 B
Barium, Dissolved	µg/L	42.8	GW409-212	82
Iron, Dissolved	µg/L	9280	C5-AC-GW-BP3	18500
Lead, Dissolved	µg/L	0.935	C5-AC-GW-BP3	1.5 J
Manganese, Dissolved	µg/L	966	C5-AC-GW-BP3	1430
			GW409-212	1310
Thallium, Dissolved	µg/L	0.222	GW409-212	2.4 B
Metals, Total				
Aluminum	µg/L	979	C5-AC-GW-BP3	3740
			GW407-210	5880 N
			GW409-212	3660
Antimony	µg/L	2.34	C5-AC-GW-BP3	2.8 J
Barium	µg/L	46.8	GW407-210	49.5
			GW409-212	118
Beryllium	µg/L	--	GW407-210	0.19 B
Chromium	µg/L	3.19	C5-AC-GW-BP3	6.9 J
			GW407-210	7.5
			GW409-212	3.6 B
Cobalt	µg/L	2.8	GW407-210	2.9 B
Iron	µg/L	8810	C5-AC-GW-BP3	29000 J
			GW407-210	9670 EN
Lead	µg/L	5.99	C5-AC-GW-BP3	25.3
Manganese	µg/L	722	C5-AC-GW-BP3	1520 *
			GW409-212	1290
Nickel	µg/L	6.48	GW407-210	10.1
Selenium	µg/L	4.24	C5-AC-GW-BP3	5.2 J
			GW409-212	14.3 B
Silver	µg/L	0.018	GW409-212	0.36 B
Thallium	µg/L	1.72	GW409-212	2.1 B
Vanadium	µg/L	2.8	GW407-210	12.2
			GW409-212	6.1
Zinc	µg/L	131	C5-AC-GW-BP3	216
PAHs				
Acenaphthene	µg/L	--	C5-AC-GW-BP3	0.5
Anthracene	µg/L	--	C5-AC-GW-BP3	0.05
Fluoranthene	µg/L	--	C5-AC-GW-BP3	0.35
Fluorene	µg/L	--	C5-AC-GW-BP3	0.15
Phenanthrene	µg/L	--	C5-AC-GW-BP3	0.05
Pyrene	µg/L	--	C5-AC-GW-BP3	0.2

* Data qualifier included with concentration value

Table 4-112
Exposure Unit 3
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Pesticides				
Heptachlor epoxide	μg/L	--	C5-AC-GW-BP3	0.016 J
Radionuclides, Total				
Alpha	pCi/L	15	GW407-210	22
			GW409-212	20.3
Thorium-228	pCi/L	0.25	GW409-212	0.36 J
Total Uranium	μg/L	15.6	GW407-210	15.8
			GW409-212	23.2
Uranium-238	pCi/L	5.79	GW409-212	8.28
Volatile Organics				
Carbon disulfide	μg/L	--	C5-AC-GW-BP3	0.4 J

* Data qualifier included with concentration value

Table 4-113
Exposure Unit 4
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Aluminum, Dissolved	µg/L	616	GW415A-781	634
Barium, Dissolved	µg/L	42.8	GW417-223	62.4
Boron, Dissolved	µg/L	4750	GW415-221	14400
			GW415A-3280	15100
			GW415A-781	26600
			GW4D003-668	8010
Cobalt, Dissolved	µg/L	3	GW415A-781	6.12
			GW-MW424-3610	6.64
Manganese, Dissolved	µg/L	966	GW415-221	1780
			GW415A-3280	3350
			GW415A-781	2110
Nickel, Dissolved	µg/L	6.15	GW415-221	195
			GW415A-781	25.6
			GW-MW424-3610	9.38
Vanadium, Dissolved	µg/L	2.6	GW415A-3280	19.2
			GW415A-781	5.19
Metals, Total				
Aluminum	µg/L	979	GW410-213	7220
			GW411-214	410000
			GW415-221	3990
			GW417-223	2680
			GW4D003-666	13400 N
			GW4D003-668	14000 N
Arsenic	µg/L	30.6	GW411-214	40.1 E
Barium	µg/L	46.8	GW410-213	70
			GW411-214	3100
			GW417-223	82.8
			GW4D003-666	64.3
			GW4D003-668	66.1
Beryllium	µg/L	--	GW411-214	20.4 B
			GW415-221	0.18 B
			GW417-223	0.34 B
			GW4D003-666	0.473 B
			GW4D003-668	0.513 B
Boron	µg/L	3820	GW415-221	14800
			GW415A-3280	28700
			GW415A-781	21100
			GW4D003-666	8210
			GW4D003-668	8340
Calcium	µg/L	620000	GW411-214	2350000

* Data qualifier included with concentration value

Table 4-113
Exposure Unit 4
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Chromium	μg/L	3.19	GW410-213	7.7
			GW411-214	620
			GW415-221	4.5 B
			GW417-223	3.8 B
			GW4D003-666	16.9
			GW4D003-668	17.3
Cobalt	μg/L	2.8	GW411-214	341
			GW415A-781	5.86
			GW4D003-666	9.31
			GW4D003-668	9.65
			GW-MW424-3610	5.52
Copper	μg/L	204	GW411-214	1440
Iron	μg/L	8810	GW411-214	802000
			GW4D003-666	22600
			GW4D003-668	23400
Lead	μg/L	5.99	GW411-214	37.3
Magnesium	μg/L	580000	GW411-214	680000
Manganese	μg/L	722	GW411-214	36500
			GW415-221	1630
			GW415A-3280	1600
			GW415A-781	3060
Nickel	μg/L	6.48	GW411-214	762
			GW415-221	149
			GW415A-781	21.1
			GW4D003-666	23.9
			GW4D003-668	24.5
Potassium	μg/L	62100	GW411-214	75300
Selenium	μg/L	4.24	GW410-213	12 B
			GW411-214	11.6
			GW415-221	6.4 B
			GW415A-781	4.57 B
Silver	μg/L	0.018	GW411-214	0.49 B
			GW415-221	0.31 B
			GW415A-3280	0.036 B
			GW415A-781	0.183 B
			GW417-223	0.99 B
			GW4D003-666	0.123 B
			GW4D003-668	0.228 B

* Data qualifier included with concentration value

Table 4-113
Exposure Unit 4
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Vanadium	μg/L	2.8	GW410-213	12.8
			GW411-214	875
			GW415-221	7.8
			GW417-223	5.3
			GW4D003-666	25.9
			GW4D003-668	26.8
Zinc	μg/L	131	GW411-214	1900
PAHs				
Anthracene	μg/L	--	GW-MW423-3613	1.06 J
Fluoranthene	μg/L	--	GW-MW423-3613	3.27
Naphthalene	μg/L	--	GW415A-3280	0.416 J
Phenanthrene	μg/L	--	GW-MW423-3613	6.93
			GW-MW424-3610	0.626
Pyrene	μg/L	--	GW-MW423-3613	1.93
Pesticides				
4,4'-DDE	μg/L	0.0146	GW-MW424-3610	0.0323 J
4,4'-DDT	μg/L	0.0413	GW313-747	0.078 P
Radionuclides, Dissolved				
Thorium-228, Dissolved	pCi/L	0.162	GW411A-780	0.228
Thorium-230, Dissolved	pCi/L	0.388	GW411A-3255	0.644
			GW-MW424-3610	0.434
Total Uranium, Dissolved	μg/L	16.7	GW415A-781	30.1
			GW4D003-668	22.5
			GW4D005-670	35.9
Uranium-234, Dissolved	pCi/L	8.94	GW415A-781	12.2
			GW415A-782	12
			GW4D003-668	9.12
Uranium-235, Dissolved	pCi/L	0.512	GW411A-3255	0.831
			GW415A-3280	0.82
			GW415A-781	0.587
			GW415A-782	0.527
			GW-MW424-3610	0.531
Uranium-238, Dissolved	PCI/L	6.32	GW415A-782	8.99
			GW4D003-666	7.21
			GW4D003-668	6.94
Radionuclides, Total				

* Data qualifier included with concentration value

Table 4-113
Exposure Unit 4
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/L	15	GW313-747	21.9
			GW410-213	21.4
			GW411-214	21.3
			GW415-221	33.9
			GW415A-3280	21.8
			GW415A-781	39.9
			GW425-751	15.5
			GW4D003-666	29.7
			GW4D003-668	18.9
			GW4D005-670	19.8
Cesium-137	pCi/L	--	GW4D005-670	4.48
Radium-226	pCi/L	1.76	GW313-747	10.7
			GW411-214	1.94
Radium-228	pCi/L	1.67	GW313-747	70.4
Thorium-228	pCi/L	0.25	GW313-747	2.53
			GW411-214	3.85
			GW415-221	0.363 J
			GW417-223	0.426 J
			GW4D003-666	0.438
			GW4D003-668	0.522
			GW-MW424-3610	0.438
Thorium-230	pCi/L	0.877	GW313-747	1.76
			GW411-214	2.15
Thorium-232	pCi/L	0.229	GW313-747	1.72
			GW411-214	2.12
			GW417-223	0.237 J
Total Uranium	μg/L	15.6	GW313-747	18.4
			GW415-221	33.3
			GW415A-3280	16.7
			GW415A-781	29.8
			GW4D003-666	22.4
			GW4D003-668	24.7
			GW4D005-670	32.8
Uranium-234	pCi/L	8.73	GW313-747	9.15
			GW415-221	11.4
			GW415A-3280	10.8
			GW415A-781	11.6
			GW4D003-666	9.23
			GW4D003-668	11.2
			GW4D005-670	13.3
Uranium-235	pCi/L	0.715	GW415A-3280	0.988

* Data qualifier included with concentration value

Table 4-113
Exposure Unit 4
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/L	5.79	GW313-747	7.4
			GW410-213	6.57
			GW415-221	9.99
			GW415A-3280	9.16
			GW415A-781	10.4
			GW4D003-666	7.66
			GW4D003-668	8.25
			GW4D005-670	10.3
Semivolatile Organics				
bis(2-Ethylhexyl)phthalate	μg/L	--	GW411A-3255	24
			GW415A-3280	16.7
			GW-MW424-3610	3.61 J
Carbazole	μg/L	--	GW-MW423-3613	6.11 J
Di-n-butylphthalate	μg/L	--	GW417-223	30.1
Isophorone	μg/L	--	GW415A-781	28.7
Volatile Organics				
1,1,2-Trichloroethane	μg/L	--	GW415A-3280	4.29
1,1-Dichloroethene	μg/L	--	GW415A-3280	38.9
2-Butanone	μg/L	4.49	GW415A-3280	19.5
			GW-MW424-3610	25
4-Methyl-2-pentanone	μg/L	--	GW415A-3280	8.56
Acetone	μg/L	30.5	GW415A-3280	157
Benzene	μg/L	0.366	GW415A-3280	2.28
			GW-MW424-3610	1.65
Carbon disulfide	μg/L	--	GW-MW424-3610	3.91 J
Chloroform	μg/L	--	GW415A-3280	1.37
cis-1,2-Dichloroethene	μg/L	--	GW411-214	0.87 J
			GW411A-3255	1.47
			GW415-221	5660 D
			GW415A-3280	13900
			GW415A-781	12300 D
			GW415A-782	14800
			GW4D003-666	38.5
			GW4D003-668	32.8
Ethylbenzene	μg/L	0.297	GW415A-3280	0.36 J
Methylene chloride	μg/L	--	GW415-221	1680 JB
			GW415A-3280	2.59 J
Styrene	μg/L	--	GW415A-3280	0.398 J

* Data qualifier included with concentration value

Table 4-113
Exposure Unit 4
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Tetrachloroethene	µg/L	--	GW415-221	14800 D
			GW415A-3280	92000 B
			GW415A-781	103000 D
			GW415A-782	78900 D
			GW4D003-666	69.3
			GW4D003-668	46.1
			GW-MW424-3610	11.2
trans-1,2-Dichloroethene	µg/L	--	GW415-221	355 J
			GW415A-3280	115 E
			GW415A-782	71.8 J
			GW4D003-666	0.25 J
			GW4D003-668	0.42 J
Trichloroethene	µg/L	--	GW415-221	3690 D
			GW415A-3280	20400
			GW415A-781	21200 D
			GW415A-782	16300
			GW4D003-666	23.7
			GW4D003-668	16.9
			GW-MW424-3610	1.27
Vinyl chloride	µg/L	1.48	GW415-221	2100
			GW415A-3280	1630
			GW415A-781	1760 JD
			GW415A-782	1480 JD
Xylenes (total)	µg/L	0.958	GW415A-3280	2.04

* Data qualifier included with concentration value

Table 4-114
Exposure Unit 5
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Antimony, Dissolved	μg/L	2.4	GW423-749	3.07 B
			GWBH51-269	7.62 B
			GWOW20D-257	4.9 B
			GWOW20S-263	3 B
Beryllium, Dissolved	μg/L	0.19	GWBH51-269	11.2
			GWOW20D-257	0.67 B
Cadmium, Dissolved	μg/L	2.32	GWBH51-269	11.6
Cobalt, Dissolved	μg/L	3	GWBH51-269	11.7
Nickel, Dissolved	μg/L	6.15	GWBH51-269	10
Selenium, Dissolved	μg/L	10.3	GW420-226	15.1
Thallium, Dissolved	μg/L	0.222	GW420-226	0.27 B
			GW423-749	0.386 BN
Vanadium, Dissolved	μg/L	2.6	GWBH51-269	10.9
Metals, Total				
Aluminum	μg/L	979	GW420-226	20100
			GW423-749	39500
			GW605-754	35400
Antimony	μg/L	2.34	GWBH51-269	3.68 B
			GWBH60-273	3.4 B
			GWOW20D-257	3.5 B
			GWOW20S-263	2.9 B
Barium	μg/L	46.8	GW420-226	212 N*
			GW423-749	420
			GW605-754	237
Beryllium	μg/L	--	GW420-226	0.76 B
			GW423-749	1.68 B
			GW605-754	1.52 B
Chromium	μg/L	3.19	GW420-226	23
			GW423-749	50.6
			GW605-754	48.5
			GWOW20S-263	9.6
Cobalt	μg/L	2.8	GW420-226	9.4
			GW423-749	29.8
			GW605-754	29.4
Copper	μg/L	204	GW605-754	211
Iron	μg/L	8810	GW420-226	27800
			GW423-749	64500
			GW605-754	67200
Lead	μg/L	5.99	GW420-226	7.8 BE
			GW605-754	7.24

* Data qualifier included with concentration value

Table 4-114
Exposure Unit 5
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Manganese	μg/L	722	GW420-226	1400
			GW423-749	1810
			GW605-754	2270
Nickel	μg/L	6.48	GW420-226	25.3
			GW423-749	65.4
			GW605-754	61.9
Selenium	μg/L	4.24	GW420-226	16.4 B
			GW605-754	9.78
Silver	μg/L	0.018	GW420-226	2 B
			GW423-749	0.078 B
			GW605-754	0.372 B
			GWBH51-269	0.167 B
			GWBH60-273	0.23 B
			GWOW20D-257	0.73 B
			GWOW20S-263	0.25 B
Vanadium	μg/L	2.8	GW420-226	40.5
			GW423-749	74.3
			GW605-754	77.4
Zinc	μg/L	131	GW423-749	146
			GW605-754	152
Radionuclides, Total				
Alpha	pCi/L	15	GW423-749	15.8
			GW424-750	18.8
			GW605-754	17.6
Radium-226	pCi/L	1.76	GW420-226	2.36
			GW605-754	3.28
Thorium-228	pCi/L	0.25	GW420-226	0.484 J
			GW424-750	0.533
			GW605-754	0.934
Thorium-232	pCi/L	0.229	GW420-226	0.269 J
			GW424-750	0.341
			GW605-754	0.547
Uranium-235	pCi/L	0.715	GWB02W020S-3287	1.24

* Data qualifier included with concentration value

Table 4-115
Exposure Unit 6
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Aluminum, Dissolved	µg/L	616	GWBH57-3278	2960 BN*
Barium, Dissolved	µg/L	42.8	GW602-233	66.7 N*
			GW604-235	54.5
Beryllium, Dissolved	µg/L	0.19	GWBH57-271	0.44 B
Cadmium, Dissolved	µg/L	2.32	GWBH57-271	3.77 B
Calcium, Dissolved	µg/L	603000	GWBH57-3278	1270000
Chromium, Dissolved	µg/L	16	GWBH57-271	22
Cobalt, Dissolved	µg/L	3	GWBH57-271	19.4
Lithium, Dissolved	µg/L	972	GWBH57-271	7610
			GWBH57-3278	3560
Manganese, Dissolved	µg/L	966	GWBH57-271	3050
			GWBH57-3278	1860
Nickel, Dissolved	µg/L	6.15	GWBH57-271	72.5 B
Potassium, Dissolved	µg/L	52400	GWBH57-3278	94300
Selenium, Dissolved	µg/L	10.3	GWBH57-271	44.6
Sodium, Dissolved	µg/L	1540000	GWBH57-3278	4160000
Vanadium, Dissolved	µg/L	2.6	GWBH57-271	20.2
Metals, Total				
Aluminum	µg/L	979	GW602-233	7690
			GW603-234	290000
			GW604-235	5220 N
			GW607-755	10100
			GW825-768	2330 N
Antimony	µg/L	2.34	GWBH57-271	4.16 B
Arsenic	µg/L	30.6	GW603-234	152
Barium	µg/L	46.8	GW602-233	120 N*
			GW603-234	1930 N*
			GW604-235	88.9
			GW607-755	76.3
Beryllium	µg/L	--	GW602-233	0.24 B
			GW603-234	13.3
			GW604-235	0.19 B
			GWBH57-3278	1.32 B
Calcium	µg/L	620000	GW603-234	1310000
			GWBH57-271	2150000
			GWBH57-3278	1030000
Chromium	µg/L	3.19	GW602-233	9.5
			GW603-234	427
			GW604-235	6
			GW607-755	13.2
			GW825-768	3.38 B

* Data qualifier included with concentration value

Table 4-115
Exposure Unit 6
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cobalt	μg/L	2.8	GW602-233	3.5 B
			GW603-234	251
			GW607-755	6.23
Copper	μg/L	204	GW603-234	899
			GWBH57-3278	401
Iron	μg/L	8810	GW602-233	11200
			GW603-234	577000
			GW607-755	15100
			GWBH57-3278	9420
Lead	μg/L	5.99	GW603-234	165 E
			GWBH57-3278	11.9
Lithium	μg/L	1130	GWBH57-271	7370
			GWBH57-3278	2500
Manganese	μg/L	722	GW603-234	22400
			GWBH57-271	3060
			GWBH57-3278	1330
Nickel	μg/L	6.48	GW602-233	10.2
			GW603-234	542
			GW604-235	6.5
			GW607-755	15.3
Potassium	μg/L	62100	GWBH57-271	133000
			GWBH57-3278	78400 E
Selenium	μg/L	4.24	GW603-234	39.7 B
			GWBH57-271	19.1 B
			GWBH57-3278	13.7
Silver	μg/L	0.018	GW603-234	1.3 B
			GW607-755	0.153 B
			GW825-768	0.097 B
			GWBH57-271	0.81 B
			GWBH57-3278	0.033 B
			GWBH63-277	0.27 B
Sodium	μg/L	1200000	GWBH57-3278	2570000
Vanadium	μg/L	2.8	GW602-233	15.6
			GW603-234	610
			GW604-235	10.8
			GW607-755	20.9
			GW825-768	5.11
Zinc	μg/L	131	GW603-234	1350
			GWBH57-3278	282
Pesticides				
gamma-Chlordane	μg/L	--	GW825-768	0.03 P
Radionuclides, Dissolved				
Beta, Dissolved	pCi/L	50	GWBH57-3278	53

* Data qualifier included with concentration value

Table 4-115
Exposure Unit 6
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-228, Dissolved	pCi/L	1.6	GWBH57-3278	2.14
Total Uranium, Dissolved	μg/L	16.7	GW825-768	18.2
Radionuclides, Total				
Alpha	pCi/L	15	GW603-234	23.6
			GW825-769	15.9
Beta	pCi/L	50	GWBH57-271	93
			GWBH57-3278	127
Cesium-137	pCi/L	--	GW825-768	2.66
Radium-226	pCi/L	1.76	GW602-233	2.77
			GW603-234	3.23
			GWBH57-271	1.77
			GWBH57-3278	2.03
Radium-228	pCi/L	1.67	GWBH57-3278	1.98
Thorium-228	pCi/L	0.25	GWBH57-271	0.296 J
Total Uranium	μg/L	15.6	GW603-234	28.3
			GW825-768	17.5
			GW825-769	18.2
Uranium-234	pCi/L	8.73	GW603-234	9.83
			GW606-786	16.2
			GW825-768	8.89
Uranium-235	pCi/L	0.715	GW606-786	0.755
Uranium-238	pCi/L	5.79	GW603-234	8.19
			GW606-786	13.6
			GW825-768	6.25
			GW825-769	6.48
Semivolatile Organics				
bis(2-Ethylhexyl)phthalate	μg/L	--	GW607-755	10.8
			GWBH57-3278	2.84 J
Phenol	μg/L	--	GW603A-3256	3.91 J
			GWBH57-3278	5.18 J
Volatile Organics				
2-Butanone	μg/L	4.49	GWBH57-3278	22.1

* Data qualifier included with concentration value

Table 4-116
Exposure Unit 7
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Arsenic, Dissolved	µg/L	25.7	GW-TWP835-3517	47 BN
			GW-TWP837-3523	47.6 BN
Barium, Dissolved	µg/L	42.8	GW-TWP835-3517	58.8
Thallium, Dissolved	µg/L	0.222	GW-TWP837-3523	0.225 B
Metals, Total				
Aluminum	µg/L	979	GW807-242	11400 N
			GW-TWP836-3520	11300
			GW-TWP837-3523	31200
			GW-TWP838-3526	14300
Arsenic	µg/L	30.6	GW-TWP835-3517	65.3 B
			GW-TWP837-3523	563
Barium	µg/L	46.8	GW807-242	61.3
			GW-TWP835-3517	47
			GW-TWP836-3520	67
			GW-TWP837-3523	137
			GW-TWP838-3526	97.7
Beryllium	µg/L	--	GW807-242	0.56 B
			GW-TWP836-3520	0.577 B
			GW-TWP837-3523	1.22 B
			GW-TWP838-3526	0.606 B
Calcium	µg/L	620000	GW-TWP837-3523	4360000
Chromium	µg/L	3.19	GW807-242	13
			GW-TWP836-3520	12.7
			GW-TWP837-3523	46.4
			GW-TWP838-3526	17
Cobalt	µg/L	2.8	GW807-242	5.9
			GW-TWP836-3520	3.59 B
			GW-TWP837-3523	28
			GW-TWP838-3526	7.68
Iron	µg/L	8810	GW807-242	14700 EN
			GW-TWP836-3520	13200
			GW-TWP837-3523	49900
			GW-TWP838-3526	17500
Lead	µg/L	5.99	GW-TWP835-3517	34.3 B
			GW-TWP837-3523	603
Lithium	µg/L	1130	GW-TWP837-3523	3150
Magnesium	µg/L	580000	GW-TWP837-3523	1610000
Manganese	µg/L	722	GW-TWP837-3523	1370
Nickel	µg/L	6.48	GW807-242	14.8
			GW-TWP836-3520	14.9
			GW-TWP837-3523	53.2
			GW-TWP838-3526	17.2

* Data qualifier included with concentration value

Table 4-116
Exposure Unit 7
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	μg/L	4.24	GW-TWP837-3523	48.6 B
Silver	μg/L	0.018	GW807-242	0.25 B
			GW-TWP836-3520	0.04 B
			GW-TWP837-3523	5.07 B
			GW-TWP838-3526	0.099 B
Thallium	μg/L	1.72	GW-TWP837-3523	3.58 B
Vanadium	μg/L	2.8	GW807-242	22.2
			GW-TWP836-3520	20.5
			GW-TWP837-3523	69.9
			GW-TWP838-3526	26.7
PCBs				
Aroclor-1260	μg/L	--	GW-TWP838-3526	0.14
Radionuclides, Dissolved				
Radium-226, Dissolved	pCi/L	1.31	GW-TWP837-3523	2.54
Thorium-230, Dissolved	pCi/L	0.388	GW-TWP836-3520	1.08
			GW-TWP838-3526	0.679
Total Uranium, Dissolved	μg/L	16.7	GW820-763	23.7
			GW821-764	24.3
			GW-TWP835-3517	28.3
			GW-TWP838-3526	24.9
Uranium-234, Dissolved	pCi/L	8.94	GW820-763	10.6
			GW821-764	10.7
			GW-TWP835-3517	12.9
			GW-TWP838-3526	9.51
Uranium-235, Dissolved	pCi/L	0.512	GW821-764	0.551
			GW-TWP835-3517	1.02
			GW-TWP836-3520	0.626
			GW-TWP838-3526	0.927
Uranium-238, Dissolved	pCi/L	6.32	GW820-763	8.07
			GW821-764	8.24
			GW-TWP835-3517	9.85
			GW-TWP838-3526	7.51
Radionuclides, Total				
Alpha	pCi/L	15	GW807-242	29.3
			GW820-763	44.1
			GW821-764	16.5
			GW-TWP835-3517	17
Radium-226	pCi/L	1.76	GW820-763	2.6
			GW-TWP837-3523	2.63
Thorium-228	pCi/L	0.25	GW807-242	0.322 J
			GW-TWP835-3517	0.783
			GW-TWP837-3523	0.584

* Data qualifier included with concentration value

Table 4-116
Exposure Unit 7
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/L	0.877	GW-TWP835-3517	1.43
			GW-TWP837-3523	0.967
Thorium-232	pCi/L	0.229	GW-TWP835-3517	0.731
			GW-TWP837-3523	0.342
			GW-TWP838-3526	0.282
Total Uranium	μg/L	15.6	GW-TWP835-3517	28.4
			GW-TWP837-3523	17
			GW-TWP838-3526	21.1
Uranium-234	pCi/L	8.73	GW-TWP835-3517	11
			GW-TWP838-3526	8.87
Uranium-235	pCi/L	0.715	GW-TWP835-3517	1.44
			GW-TWP836-3520	0.805
			GW-TWP837-3523	0.857
			GW-TWP838-3526	1.06
Uranium-238	pCi/L	5.79	GW820-763	6.02
			GW-TWP835-3517	8.89
			GW-TWP838-3526	6.97

* Data qualifier included with concentration value

Table 4-117
Exposure Unit 8
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Aluminum, Dissolved	μg/L	616	GW302A-3253	799
Antimony, Dissolved	μg/L	2.4	C5-SO-GW-D800	2.9 J
			GW303-193	2.5 B
			GW307-197	4.7 B
			WO19D-260	2.6 B
Barium, Dissolved	μg/L	42.8	C5-SO-GW-D800	45.3 J
			GW303-193	64.7
			GW308-198	71.1 N*
			GW309-199	46.2 N*
			GW310-200	73.2
			GWBH05-251	72.1
			GWBH15-3276	44.7
Beryllium, Dissolved	μg/L	0.19	GW307-197	0.24 B
Chromium, Dissolved	μg/L	16	GWBH15-253	38.9
Cobalt, Dissolved	μg/L	3	GWBH15-253	33.4
			GW-MW313-3592	9.29
Lithium, Dissolved	μg/L	972	GWBH15-253	1750 NE
Magnesium, Dissolved	μg/L	618000	GW302-192	670000
			GW302A-3253	1180000
Manganese, Dissolved	μg/L	966	GW302-192	1230
Nickel, Dissolved	μg/L	6.15	GW302-192	19.5 B
			GW302A-3253	7.65
			GW-MW313-3592	9.89
Selenium, Dissolved	μg/L	10.3	GW307-197	13 B
			GWBH15-253	10.7 B
Sodium, Dissolved	μg/L	1540000	GWBH15-253	1870000 E
Vanadium, Dissolved	μg/L	2.6	GWBH15-253	34.5
Metals, Total				
Aluminum	μg/L	979	C5-SO-GW-D800	8810
			GW302-192	58000
			GW303-193	25000
			GW304-194	21900
			GW306-196	8460
			GW307-197	18100
			GW308-198	38000
			GW309-199	80400
			GW310-200	60400
			GW311-201	61700
Antimony	μg/L	2.34	C5-SO-GW-D800	3.6 J
			GWBH05-251	3.7 B
			GWBH15-253	3.9 B
			WO19D-260	3.5 B

* Data qualifier included with concentration value

Table 4-117
Exposure Unit 8
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Arsenic	μg/L	30.6	GW302-192	35.3 E
Barium	μg/L	46.8	C5-SO-GW-D800	108 J
			GW302-192	314
			GW303-193	240
			GW304-194	169
			GW306-196	77.3
			GW307-197	161
			GW308-198	234 N*
			GW309-199	692 N*
			GW310-200	675
			GW311-201	615 N*
			GWBH05-251	74.5
Beryllium	μg/L	--	GW302-192	2.2 B
			GW303-193	1.3 B
			GW304-194	1.4 B
			GW306-196	0.67 B
			GW307-197	1.2 B
			GW308-198	1.5 B
			GW309-199	3.3 B
			GW310-200	3.3 B
			GW311-201	2.6 B
			GWBH05-251	0.19 B
Calcium	μg/L	620000	GW302-192	690000
Chromium	μg/L	3.19	C5-SO-GW-D800	9 J
			GW302-192	81.2
			GW302A-3253	15.4
			GW303-193	31.2
			GW304-194	29.1
			GW306-196	10.4
			GW307-197	22.9
			GW308-198	46.6
			GW309-199	106
			GW310-200	80.4
			GW311-201	74.6
Cobalt	μg/L	2.8	GW302-192	40.2 B
			GW303-193	10.4
			GW304-194	13.3
			GW306-196	4.4 B
			GW307-197	12.5
			GW308-198	21.9
			GW309-199	47.4
			GW310-200	33
			GW311-201	38
			GW-MW313-3592	19.9

* Data qualifier included with concentration value

Table 4-117
Exposure Unit 8
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Copper	μg/L	204	GW311-201	422
Iron	μg/L	8810	C5-SO-GW-D800	12700
			GW302-192	98500
			GW303-193	30300
			GW304-194	30600
			GW306-196	11700
			GW307-197	25200
			GW308-198	51500
			GW309-199	121000
			GW310-200	87300
			GW311-201	102000
Lead	μg/L	5.99	GW302-192	24.5
			GW303-193	6.9 B
			GW304-194	7.1 B
			GW307-197	7.9 B
			GW308-198	20.1 E
			GW309-199	31.9 E
			GW310-200	36.4
			GW311-201	29.3 E
Lithium	μg/L	1130	GWBH15-253	1600 E
Magnesium	μg/L	580000	GW302-192	756000
			GW302A-3253	1130000
Manganese	μg/L	722	GW302-192	4600
			GW302A-3253	770
			GW304-194	830
			GW307-197	844
			GW308-198	2480
			GW309-199	4080
			GW310-200	3170
			GW311-201	7840
			GWBH15-253	802
			GW-MW313-3592	1270
Nickel	μg/L	6.48	C5-SO-GW-D800	11.3 J
			GW302-192	107
			GW302A-3253	7.49
			GW303-193	32.3
			GW304-194	34.9
			GW306-196	10.2
			GW307-197	26.3
			GW308-198	50
			GW309-199	113
			GW310-200	86.4
			GW311-201	90.2
			GW-MW313-3592	17.8

* Data qualifier included with concentration value

Table 4-117
Exposure Unit 8
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	μg/L	4.24	C5-SO-GW-D800	4.6 J
			GW302-192	6.4 B
			GW303-193	7.5 B
			GW304-194	9.1 B
			GW306-196	4.3 B
			GW307-197	14.2 B
			GW308-198	5.4 B
			GW309-199	8.2 B
			GW310-200	10.5 B
			GW311-201	8.3 B
			GWBH15-253	22.1
			WO19D-260	6.6 B
Silver	μg/L	0.018	GW302-192	0.48 B
			GW302A-3253	0.025 B
			GW303-193	0.79 B
			GW304-194	0.88 B
			GW306-196	0.76 B
			GW307-197	0.89 B
			GW308-198	0.71 B
			GW309-199	0.93 B
			GW310-200	1 B
			GW311-201	1.4 B
			GWBH05-251	0.68 B
			GWBH15-253	0.26 B
			WO19D-260	0.18 B
Sodium	μg/L	1200000	GWBH15-253	1730000 E
Thallium	μg/L	1.72	GW308-198	3.8 B
			GW309-199	14.8
Vanadium	μg/L	2.8	C5-SO-GW-D800	12.4 J
			GW302-192	130
			GW303-193	46.2
			GW304-194	40
			GW306-196	16.1
			GW307-197	33.3
			GW308-198	77.2
			GW309-199	165
			GW310-200	116
			GW311-201	128
Zinc	μg/L	131	GW302-192	235
			GW309-199	273
			GW310-200	234
			GW311-201	253
Nitroaromatics				
1,3,5-Trinitrobenzene	μg/L	--	C5-SO-GW-D800	1.5

* Data qualifier included with concentration value

Table 4-117
Exposure Unit 8
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
RDX	µg/L	--	GW302A-3253	0.153
PAHs				
Phenanthrene	µg/L	--	C5-SO-GW-D800	0.01
			GW-MW313-3592	0.914
Pesticides				
4,4'-DDE	µg/L	0.0146	GW-MW313-3592	0.055
alpha-BHC	µg/L	--	C5-SO-GW-D800	0.019 J
Radionuclides, Dissolved				
Alpha, Dissolved	pCi/L	15	GW302A-3253	70.2
			GW-MW313-3592	16
Thorium-228, Dissolved	pCi/L	0.162	GW302A-3253	0.334
Thorium-230, Dissolved	pCi/L	0.388	GW303A-3254	0.554
			GW-MW313-3592	0.44
Total Uranium, Dissolved	µg/L	16.7	GW302A-3253	126
			GW-MW313-3592	27.1
Uranium-234, Dissolved	pCi/L	8.94	GW302A-3253	57.5
			GW302A-777	57.4
			GW-MW313-3592	13.8
Uranium-235, Dissolved	pCi/L	0.512	GW302A-3253	3.46
			GW302A-777	1.87
			GW-MW313-3592	0.693
Uranium-238, Dissolved	pCi/L	6.32	GW302A-3253	44.4
			GW302A-777	42.7
			GW-MW313-3592	11.1
Radionuclides, Total				
Alpha	pCi/L	15	GW302-192	132
			GW302A-3253	53.9
			GW302A-777	59.7
			GW303-193	55.7
			GW304-194	69.5
			GW306-196	25.6
			GW307-197	91.9
			GW308-198	20.7
			GW310-200	34.3
			GW312-203	26.4
Radium-226	pCi/L	1.76	GW308-198	2.33
			GW309-199	2.13
			GW311-201	2.25
			GW312-203	3.9
			WO19D-260	3.11

* Data qualifier included with concentration value

Table 4-117
Exposure Unit 8
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-228	pCi/L	0.25	GW304-194	0.342 J
			GW306-196	0.344 J
			GW307-197	1.51
			GW309-199	0.684 J
			GW312-203	5.33
Thorium-230	pCi/L	0.877	GW312-203	4.37
Thorium-232	pCi/L	0.229	GW304-194	0.296 J
			GW307-197	0.841
			GW309-199	0.286 J
			GW312-203	3.37
Total Uranium	μg/L	15.6	GW302-192	96.3
			GW302A-3253	125
			GW302A-777	125
			GW303-193	59.1
			GW303A-778	21.4
			GW304-194	56.5
			GW306-196	26.7
			GW307-197	26.1
			GW308-198	17
			GW312-203	35.7
			GW-MW313-3592	31.7
Uranium-234	pCi/L	8.73	GW302-192	33.3
			GW302A-3253	52.6
			GW302A-777	61
			GW303-193	21.7
			GW304-194	24.1
			GW306-196	10.4
			GW307-197	9.66
			GW308-198	9.28
			GW312-203	13.4
			GW-MW313-3592	13.3
Uranium-235	pCi/L	0.715	GW302-192	1.42
			GW302A-3253	2.24
			GW302A-777	1.89
			GW303-193	0.831
			GW-MW313-3592	1.12

* Data qualifier included with concentration value

Table 4-117
Exposure Unit 8
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/L	5.79	GW302-192	27.3
			GW302A-3253	41.1
			GW302A-777	47
			GW303-193	18.6
			GW303A-3254	6
			GW303A-778	7.02
			GW304-194	17.2
			GW306-196	8.98
			GW307-197	7.49
			GW308-198	7.55
			GW312-203	11.8
			GW-MW313-3592	10.6
Semivolatile Organics				
2-Chlorophenol	μg/L	--	GWBH15-3276	0.407 J
bis(2-Ethylhexyl)phthalate	μg/L	--	GW-MW313-3592	3.07 J
Di-n-butylphthalate	μg/L	--	GW301-191	14.9
			GW303-193	69
			GW304-194	38.4
			GW306-196	41.1
			GW307-197	89.4
			GW310-200	30.7
Phenol	μg/L	--	GW302A-3253	11.3
			GW303A-3254	12.3
Volatile Organics				
1,1,1-Trichloroethane	μg/L	0.435	C5-SO-GW-D800	6
1,1-Dichloroethane	μg/L	--	C5-SO-GW-D800	1
1,1-Dichloroethene	μg/L	--	C5-SO-GW-D800	2
1,2-Dichloroethene	μg/L	--	C5-SO-GW-D800	2
2-Butanone	μg/L	4.49	GWBH15-3276	4.95 J
Carbon disulfide	μg/L	--	GW-MW313-3592	2.37 J
Methylene chloride	μg/L	--	GW-MW313-3592	1.93 J
Tetrachloroethene	μg/L	--	GW303A-3254	0.597 BJ
Trichloroethene	μg/L	--	C5-SO-GW-D800	5

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Aluminum, Dissolved	μg/L	616	GW-TWP832-3508	716 B
			GW-TWP859-3589	739 B
Antimony, Dissolved	μg/L	2.4	GWA50-258	4.49 B
			GWA56-282	4.9 B
			GWOW03A-286	3.12 B
			GWOW17A-289	2.94 B
Arsenic, Dissolved	μg/L	25.7	GW-TWP856-3580	57.4 B
			GW-TWP858-3586	26.2 B
			GW-TWP859-3589	66.8 B
Barium, Dissolved	μg/L	42.8	GWA55-3265	44.3
			GWA57-281	46.2
			GWOW01A-3273	52.5
			GW-TWP851-3565	147
Beryllium, Dissolved	μg/L	0.19	GWA56-282	0.28 B
			GWOW03A-286	0.21 B
			GWOW06A-287	0.2 B
			GWOW10B-3277	13.3
			GWOW17A-289	0.21 B
			GW-TWP852-3568	0.254 B
Cobalt, Dissolved	μg/L	3	GWA43-264	3.3 B
			GW-MW862-3604	7.19
			GW-TWP830-3502	3.03 B
			GW-TWP831-3505	3.45 B
Copper, Dissolved	μg/L	90.9	GWOW06B-3291	108
			GWOW10B-3277	4770
			GWOW11B-3263	107
Lead, Dissolved	μg/L	0.935	GWOW14B-3268	2.41
Magnesium, Dissolved	μg/L	618000	GW-TWP831-3505	822000
Nickel, Dissolved	μg/L	6.15	GWA45-256	74
			GWOW04A-279	23.3
			GWOW05B-3274	30.6
			GWOW06A-287	12.6
			GWOW06B-262	29.4
			GWOW06B-3291	16.8
			GWOW17A-289	7.31
			GW-TWP851-3565	20.6
Potassium, Dissolved	μg/L	52400	GWA45-256	84300
			GWOW01A-3273	143000 E
Selenium, Dissolved	μg/L	10.3	GWA23A-285	13.8
			GW-TWP832-3508	41.7 BN*
			GW-TWP852-3568	62.7 BN*
			GW-TWP858-3586	41.2 BN*

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*	
Thallium, Dissolved	μg/L	0.222	GWA45-256	0.33	B
			GWA50-258	0.646	
			GWA52-259	2.44	B
			GWA52-3260	0.328	B
			GW-MW861-3601	11.9	B
			GWOW10A-288	0.4	B
			GWOW15B-3288	0.333	B
			GW-TWP844-3544	1.72	B
			GW-TWP851-3565	0.225	B
Vanadium, Dissolved	μg/L	2.6	GW-TWP858-3586	6.23	
Zinc, Dissolved	μg/L	108	GWA57-281	520	
			GWOW06B-3291	134	
			GWOW10B-3277	643	
Metals, Total					
Aluminum	μg/L	979	GW102-745	30900	N
			GW103-746	8350	N
			GWBH70-283	9300	
			GWOW05A-278	1210	
			GW-TWP830-3502	816000	
			GW-TWP831-3505	143000	
			GW-TWP832-3508	63600	
			GW-TWP833-3511	2850	
			GW-TWP834-3514	11100	
			GW-TWP839-3529	1000000	
			GW-TWP844-3544	6300	*N
			GW-TWP850-3562	17300	
			GW-TWP851-3565	1330000	
			GW-TWP853-3571	199000	
			GW-TWP854-3574	15200	
			GW-TWP855-3577	21100	
			GW-TWP856-3580	18200	
			GW-TWP858-3586	317000	
			GW-TWP859-3589	13800	

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Antimony	μg/L	2.34	GW103-746	5.31 B
			GWA23A-285	4.57 B
			GWA42-254	3.8 B
			GWA43-264	5.8 B
			GWA45-256	4.7 B
			GWA50-258	10.3
			GWA51-270	4.4 B
			GWA54-280	5.28 B
			GWA57-281	3.6 B
			GWBH49-266	3.38 B
			GWBH70-283	3.79 B
			GWOW03A-286	3.09 B
			GWOW03B-261	7.27 B
			GWOW04A-279	12.2
			GWOW05A-278	23.1
			GWOW06A-287	28.2
			GWOW06B-262	6.54 B
			GWOW10A-288	4.22 B
			GWOW17A-289	2.76 B
Arsenic	μg/L	30.6	GW-TWP830-3502	594
			GW-TWP831-3505	80.3
			GW-TWP839-3529	441 N
			GW-TWP853-3571	80.1
			GW-TWP858-3586	118
Barium	μg/L	46.8	GW102-745	197
			GW103-746	60.5
			GWA55-3265	62.4
			GWBH70-283	81.9
			GWOW01A-3273	62
			GW-TWP830-3502	2500
			GW-TWP831-3505	1140
			GW-TWP832-3508	466
			GW-TWP833-3511	49.3
			GW-TWP834-3514	60.9
			GW-TWP839-3529	6680
			GW-TWP844-3544	51
			GW-TWP850-3562	114
			GW-TWP851-3565	1850
			GW-TWP853-3571	1000
			GW-TWP854-3574	105
			GW-TWP855-3577	176
			GW-TWP856-3580	86.2
			GW-TWP858-3586	1640
			GW-TWP859-3589	73.1

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beryllium	μg/L	--	GW102-745	1.47 B
			GWA43-264	0.23 B
			GWBH70-283	0.46 B
			GW-MW863-3607	0.301 B
			GW-TWP830-3502	33.3
			GW-TWP831-3505	6.45
			GW-TWP832-3508	2.87 B
			GW-TWP833-3511	0.273 B
			GW-TWP834-3514	0.58 B
			GW-TWP839-3529	51.5 B
			GW-TWP844-3544	0.189 B
			GW-TWP850-3562	0.905 B
			GW-TWP851-3565	54.1
			GW-TWP852-3568	0.231 B
			GW-TWP853-3571	9.62
			GW-TWP854-3574	0.904 B
			GW-TWP855-3577	0.995 B
			GW-TWP858-3586	15.1
Cadmium	μg/L	2.51	GW-TWP830-3502	13.5 B
			GW-TWP853-3571	2.67 B
			GW-TWP858-3586	3.53 B
Calcium	μg/L	620000	GWA23A-285	651000
			GW-TWP830-3502	3850000
			GW-TWP831-3505	1170000
			GW-TWP839-3529	2050000
			GW-TWP853-3571	911000
			GW-TWP858-3586	1830000

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Chromium	µg/L	3.19	GW102-745	38
			GW103-746	9.97
			GWBH70-283	13.6
			GWOW05A-278	5.45
			GWOW05B-3274	3.82 B
			GWOW06B-262	5.31
			GWOW10B-801	5.03
			GWOW17B-3289	4.07 B
			GW-TWP830-3502	1270
			GW-TWP831-3505	228
			GW-TWP832-3508	85.3
			GW-TWP833-3511	5.74
			GW-TWP834-3514	13.3
			GW-TWP839-3529	1530
			GW-TWP844-3544	8.1
			GW-TWP850-3562	23
			GW-TWP851-3565	2090
			GW-TWP853-3571	311
			GW-TWP854-3574	19.7
			GW-TWP855-3577	26.6
			GW-TWP856-3580	22
			GW-TWP858-3586	514
			GW-TWP859-3589	15.5
Cobalt	µg/L	2.8	GW102-745	21.4
			GW103-746	4.37 B
			GWA52-259	3.14 B
			GWBH70-283	7.2
			GW-MW862-3604	21.9
			GW-TWP830-3502	645
			GW-TWP831-3505	119
			GW-TWP832-3508	44.2
			GW-TWP833-3511	2.98 B
			GW-TWP834-3514	6.05
			GW-TWP839-3529	672
			GW-TWP844-3544	4.68 B
			GW-TWP850-3562	11.7
			GW-TWP851-3565	1090
			GW-TWP853-3571	159
			GW-TWP854-3574	9.58
			GW-TWP855-3577	12.9
			GW-TWP856-3580	9.57
			GW-TWP858-3586	268
			GW-TWP859-3589	7.7

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Copper	μg/L	204	GW-TWP830-3502	2880
			GW-TWP831-3505	335
			GW-TWP839-3529	2920
			GW-TWP851-3565	2370
			GW-TWP853-3571	362
			GW-TWP858-3586	646
Iron	μg/L	8810	GW102-745	42900 N
			GW103-746	9860 N
			GWBH70-283	16500
			GW-TWP830-3502	1740000
			GW-TWP831-3505	293000
			GW-TWP832-3508	99600
			GW-TWP834-3514	12400
			GW-TWP839-3529	1530000
			GW-TWP850-3562	22400
			GW-TWP851-3565	2430000
			GW-TWP853-3571	358000
			GW-TWP854-3574	24300
			GW-TWP855-3577	26300
			GW-TWP856-3580	23000
			GW-TWP858-3586	586000
			GW-TWP859-3589	17200
Lead	μg/L	5.99	GW102-745	11.8 E
			GWBH70-283	6.86
			GW-TWP830-3502	398
			GW-TWP831-3505	73.3
			GW-TWP832-3508	26.6
			GW-TWP839-3529	520
			GW-TWP850-3562	6.18 B
			GW-TWP853-3571	93.9
			GW-TWP854-3574	15.3
			GW-TWP858-3586	156
			GW-TWP859-3589	6.08 J
Lithium	μg/L	1130	GW-TWP830-3502	1200
			GW-TWP839-3529	1610 N
Magnesium	μg/L	580000	GW-TWP830-3502	1150000 E
			GW-TWP831-3505	921000 E
			GW-TWP839-3529	719000

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Manganese	µg/L	722	GW102-745	1800
			GWA23A-285	904
			GWA42-254	927
			GWA43-264	817
			GWBH70-283	913
			GW-MW862-3604	870
			GW-TWP830-3502	74300
			GW-TWP831-3505	16800
			GW-TWP832-3508	4600
			GW-TWP839-3529	34700
			GW-TWP850-3562	806
			GW-TWP851-3565	78300
			GW-TWP853-3571	17200
			GW-TWP854-3574	3180
			GW-TWP855-3577	1150
			GW-TWP858-3586	24400
Mercury	µg/L	0.17	GW-TWP830-3502	0.509
			GW-TWP831-3505	0.199 B
			GW-TWP839-3529	1.01
			GW-TWP851-3565	0.56
			GW-TWP858-3586	0.302

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Nickel	μg/L	6.48	GW102-745	43
			GW103-746	10.6
			GWBH70-283	15.5
			GW-MW862-3604	15.6
			GWOW04A-279	24.8
			GWOW05A-278	11.6
			GWOW05B-3274	32.6
			GWOW06A-287	10.5
			GWOW06B-262	33.5
			GWOW06B-3291	16.3
			GWOW10B-801	11.9
			GW-TWP830-3502	1410
			GW-TWP831-3505	236
			GW-TWP832-3508	93
			GW-TWP834-3514	20.5
			GW-TWP839-3529	1540
			GW-TWP844-3544	7.46
			GW-TWP850-3562	23.9
			GW-TWP851-3565	2340
			GW-TWP853-3571	330
			GW-TWP854-3574	23
			GW-TWP855-3577	26.4
			GW-TWP856-3580	21.8
			GW-TWP858-3586	563
			GW-TWP859-3589	16.3
Potassium	μg/L	62100	GWOW01A-3273	209000 E
			GW-TWP830-3502	146000
			GW-TWP839-3529	207000
			GW-TWP851-3565	240000
			GW-TWP858-3586	75300
Selenium	μg/L	4.24	GWA23A-285	4.91
			GWOW07B-3292	4.49 B
			GW-TWP839-3529	25.3

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Silver	μg/L	0.018	GW102-745	0.37 B
			GW103-746	0.34 B
			GWA23A-285	0.174 B
			GWA42-254	0.35 B
			GWA43-264	0.23 B
			GWA45-256	0.3 B
			GWA50-258	0.217 B
			GWA51-270	0.26 B
			GWA52-259	0.66 B
			GWA56-282	0.18 B
			GWA57-281	0.19 B
			GWBH70-283	0.201 B
			GW-MW863-3607	0.075 B
			GWOW03B-261	0.216 B
			GWOW06B-262	0.168 B
			GWOW06B-3291	0.047 B
			GWOW10A-288	0.68 B
			GWOW10B-801	0.176 B
			GWOW17B-3289	0.028 B
			GW-TWP830-3502	3.37 B
			GW-TWP831-3505	0.995 B
			GW-TWP832-3508	0.27 B
			GW-TWP839-3529	4.47 B
			GW-TWP844-3544	0.071 B
			GW-TWP853-3571	0.935 B
			GW-TWP854-3574	0.187 B
			GW-TWP855-3577	0.065 B
			GW-TWP856-3580	0.05 J
			GW-TWP858-3586	1.5 B
Thallium	μg/L	1.72	GWA52-259	2.81
			GW-MW863-3607	2.34 B
			GW-TWP830-3502	3.59 E
			GW-TWP839-3529	6.32
			GW-TWP853-3571	2.04 B
			GW-TWP858-3586	2.56 E

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Vanadium	μg/L	2.8	GW102-745	58.3
			GW103-746	16.7
			GWBH70-283	17.3
			GW-TWP830-3502	1960
			GW-TWP831-3505	373
			GW-TWP832-3508	133
			GW-TWP834-3514	22 B
			GW-TWP839-3529	1970
			GW-TWP844-3544	12.6
			GW-TWP850-3562	39.7
			GW-TWP851-3565	2700
			GW-TWP853-3571	446
			GW-TWP854-3574	34.3
			GW-TWP855-3577	44.3
			GW-TWP856-3580	29.2
			GW-TWP858-3586	721
Zinc	μg/L	131	GWA57-281	543
			GW-TWP830-3502	3540
			GW-TWP831-3505	535
			GW-TWP832-3508	189
			GW-TWP839-3529	3640
			GW-TWP851-3565	4950
			GW-TWP853-3571	744
			GW-TWP858-3586	1280
Pesticides				
4,4'-DDE	μg/L	0.0146	GWBH49A-3261	0.0335 J
			GW-TWP851-3565	0.0206 J
			GW-TWP859-3589	0.0355 J
4,4'-DDT	μg/L	0.0413	GW-TWP855-3577	0.0492
Radionuclides, Dissolved				

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha, Dissolved	pCi/L	15	GWA42-3275	40.7
			GWA43-3259	34.1
			GWA45-3285	22.3
			GWA52-3260	55.7
			GWOW04B-3290	48.1
			GWOW06B-3291	21.7
			GWOW07B-3292	16.3
			GWOW09B-3262	19.1
			GWOW11B-3263	134
			GW-TWP830-3502	20.7
			GW-TWP831-3505	58.8
			GW-TWP833-3511	610
			GW-TWP844-3544	17.1
			GW-TWP852-3568	15.4
			GW-TWP856-3580	16.8
Beta, Dissolved	pCi/L	50	GWA55-3265	453
			GWOW01A-3273	125
			GWOW11B-3263	115
			GW-TWP833-3511	168
Radium-226, Dissolved	pCi/L	1.31	GW-TWP851-3565	2.75
Radium-228, Dissolved	pCi/L	1.6	GWOW07B-3292	1.87
Thorium-230, Dissolved	pCi/L	0.388	GW-MW861-3601	0.527
			GWOW09B-3262	0.61 J
			GWOW14B-3268	4.68
			GW-TWP839-3529	0.612
			GW-TWP851-3565	0.433
			GW-TWP852-3568	0.4
			GW-TWP853-3571	0.453
			GW-TWP856-3580	0.675
			GW-TWP858-3586	0.398
			GW-TWP859-3589	0.413

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium, Dissolved	µg/L	16.7	GWA42-3275	63.7
			GWA43-3259	45.9
			GWA45-3285	37.4
			GWA50-3286	18.2
			GWA52-3260	52.4
			GWBH49A-3261	42.9
			GWOW04B-3290	73.5
			GWOW06B-3291	28.2
			GWOW07B-3292	19.6
			GWOW09B-3262	25.1
			GWOW11B-3263	248
			GWOW13B-3267	29.2
			GWOW18B-3272	22
			GW-TWP830-3502	25.8
			GW-TWP831-3505	67.7
			GW-TWP833-3511	9580
			GW-TWP839-3529	17.4
			GW-TWP844-3544	21.7
			GW-TWP850-3562	22.5
			GW-TWP852-3568	21.9
			GW-TWP854-3574	19
			GW-TWP855-3577	24
			GW-TWP856-3580	27.8
Uranium-234, Dissolved	pCi/L	8.94	GWA42-3275	28.2
			GWA43-3259	17.1
			GWA45-3285	19.1
			GWA52-3260	23.6
			GWOW04B-3290	23.8
			GWOW06B-3291	12.1
			GWOW07B-3292	11.4
			GWOW09B-3262	13.5
			GWOW09B-800	13.9
			GWOW11B-3263	106
			GWOW11B-803	93
			GWOW13B-3267	10.2
			GW-TWP830-3502	11.4
			GW-TWP831-3505	35.2
			GW-TWP833-3511	319
			GW-TWP844-3544	9.27
			GW-TWP850-3562	9.47
			GW-TWP852-3568	9.31
			GW-TWP855-3577	11
			GW-TWP856-3580	11.1

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235, Dissolved	pCi/L	0.512	GWA42-3275	1.94
			GWA43-3259	1.92
			GWA45-3285	0.958
			GWA50-3286	0.684
			GWA52-3260	0.94
			GW-MW860-3598	1.37
			GWOW04B-3290	1.78
			GWOW07B-3292	1.19
			GWOW09B-3262	0.52
			GWOW11B-3263	4.95
			GWOW11B-803	4.12
			GWOW13B-3267	0.537
			GWOW18B-3272	0.605
			GW-TWP830-3502	0.658
			GW-TWP831-3505	2.02
			GW-TWP833-3511	39.1
			GW-TWP839-3529	0.55
			GW-TWP844-3544	1.38
			GW-TWP852-3568	0.518
			GW-TWP853-3571	0.561
			GW-TWP854-3574	0.559
			GW-TWP855-3577	0.725
			GW-TWP856-3580	1.25
Uranium-238, Dissolved	pCi/L	6.32	GWA42-3275	25.7
			GWA43-3259	14.2
			GWA45-3285	13.8
			GWA52-3260	18.5
			GWOW04B-3290	20.9
			GWOW06B-3291	9.07
			GWOW07B-3292	8.72
			GWOW08B-798	6.42
			GWOW09B-3262	9.32
			GWOW09B-800	10.2
			GWOW11B-3263	101
			GWOW11B-803	89.3
			GWOW12B-804	6.7
			GWOW13B-3267	8.38
			GW-TWP830-3502	9.11
			GW-TWP831-3505	30
			GW-TWP833-3511	301
			GW-TWP844-3544	7.46
			GW-TWP852-3568	7.31
			GW-TWP855-3577	7.54
			GW-TWP856-3580	8.39

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radionuclides, Total				
Alpha	pCi/L	15	GW101-744	15.5
			GWA42-254	72
			GWA42-3275	38.6
			GWA43-264	36.1
			GWA43-3259	30.9
			GWA45-256	40.1
			GWA45-3285	42.9
			GWA50-258	15.4
			GWA51-270	22.8
			GWA52-259	43.3
			GWA52-3260	52.6
			GWOW03B-261	17.7
			GWOW04B-3290	46.7
			GWOW06B-262	27.9
			GWOW06B-3291	20.7
			GWOW09B-3262	17
			GWOW09B-800	16.3
			GWOW11B-3263	128
			GWOW11B-803	127
			GWOW12B-804	19.8
			GWOW13B-3267	18
			GW-TWP830-3502	25.2
			GW-TWP831-3505	50.6
			GW-TWP833-3511	562
			GW-TWP834-3514	19.8
			GW-TWP839-3529	16.2
			GW-TWP844-3544	27.2
			GW-TWP850-3562	63.9
			GW-TWP851-3565	15.2
			GW-TWP852-3568	33.4
			GW-TWP855-3577	27.3
			GW-TWP856-3580	217 J
			GW-TWP858-3586	40
Beta	pCi/L	50	GWA45-3285	90
			GWOW01A-3273	173
			GWOW11B-3263	101
			GWOW11B-803	59.9
			GWOW13A-3295	58.5
			GW-TWP833-3511	211
			GW-TWP850-3562	115
			GW-TWP856-3580	220 J
			GW-TWP858-3586	90.8

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/L	--	GWBH49A-790	28
			GWOW07A-796	4.41
			GWOW07B-3292	2.12
			GWOW11B-803	57.1
Radium-226	pCi/L	1.76	GW101-744	2.78
			GW-TWP830-3502	10
			GW-TWP831-3505	4
			GW-TWP832-3508	2.65
			GW-TWP833-3511	1.78
			GW-TWP839-3529	2.15
			GW-TWP850-3562	2.69
			GW-TWP851-3565	2.59
			GW-TWP852-3568	5.35
			GW-TWP854-3574	2.2
			GW-TWP856-3580	11.3
			GW-TWP858-3586	4.58
Radium-228	pCi/L	1.67	GW102-745	47.8
			GW-TWP830-3502	126
			GW-TWP831-3505	8.59
			GW-TWP853-3571	19.1
			GW-TWP854-3574	12
			GW-TWP856-3580	40.1 J
			GW-TWP858-3586	42.3
Thorium-228	pCi/L	0.25	GW101-744	0.966
			GWA42-254	0.564
			GWBH70-283	0.322
			GWOW10A-288	1.24
			GW-TWP832-3508	1.1
			GW-TWP833-3511	0.915
			GW-TWP834-3514	0.785
			GW-TWP839-3529	2.45
			GW-TWP844-3544	0.36
			GW-TWP850-3562	0.881
			GW-TWP851-3565	0.975
			GW-TWP852-3568	9.06
			GW-TWP853-3571	4.43
			GW-TWP854-3574	1.1
			GW-TWP856-3580	4.59 J
			GW-TWP858-3586	1.41
			GW-TWP859-3589	0.931 J

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/L	0.877	GW-TWP830-3502	0.909
			GW-TWP832-3508	0.927
			GW-TWP833-3511	1.21
			GW-TWP834-3514	0.946
			GW-TWP839-3529	1.53
			GW-TWP850-3562	1.31
			GW-TWP851-3565	0.984
			GW-TWP852-3568	5.3
			GW-TWP853-3571	3.35
			GW-TWP856-3580	3.55 J
			GW-TWP858-3586	0.918
Thorium-232	pCi/L	0.229	GW101-744	0.4
			GW-TWP831-3505	0.254
			GW-TWP832-3508	0.893
			GW-TWP833-3511	0.601
			GW-TWP834-3514	0.613
			GW-TWP839-3529	1.15
			GW-TWP844-3544	0.244
			GW-TWP850-3562	0.407
			GW-TWP851-3565	0.698
			GW-TWP852-3568	5.6
			GW-TWP853-3571	2.45
			GW-TWP854-3574	0.559
			GW-TWP855-3577	0.492
			GW-TWP856-3580	2.98 J
			GW-TWP858-3586	0.807
			GW-TWP859-3589	0.355 J

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	µg/L	15.6	GWA42-254	80.3
			GWA42-3275	56
			GWA43-264	36.6
			GWA43-3259	47.4
			GWA45-256	44.1
			GWA45-3285	42.8
			GWA50-258	17.6
			GWA51-270	25.6
			GWA52-259	46.2
			GWA52-3260	72
			GWBH49A-3261	16.3
			GW-MW862-3604	17.4
			GWOW03B-261	18.1
			GWOW04B-3290	61.1
			GWOW06B-262	37.2
			GWOW06B-3291	29.2
			GWOW07B-3292	19.1
			GWOW08B-798	15.9
			GWOW09B-3262	21.8
			GWOW09B-800	28.2
			GWOW11B-3263	250
			GWOW11B-803	172
			GWOW12B-804	17.9
			GWOW13B-3267	23.5
			GWOW18B-3272	20.5
			GW-TWP830-3502	27.6
			GW-TWP831-3505	82
			GW-TWP833-3511	662
			GW-TWP839-3529	16
			GW-TWP844-3544	24.1
			GW-TWP852-3568	20.8
			GW-TWP855-3577	22.5
			GW-TWP856-3580	29.6

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/L	8.73	GWA42-254	30.5
			GWA42-3275	25.7
			GWA43-264	14.2
			GWA43-3259	13.1
			GWA45-256	19.9
			GWA45-3285	16.4
			GWA50-3286	10.8
			GWA52-259	23.2
			GWA52-3260	21.9
			GWOW04B-3290	25.5
			GWOW06B-262	16
			GWOW06B-3291	9.38
			GWOW07B-3292	9.62
			GWOW09B-3262	13.5
			GWOW09B-800	14
			GWOW11B-3263	102
			GWOW11B-803	67.2
			GW-TWP830-3502	67
			GW-TWP831-3505	29.2
			GW-TWP833-3511	523
			GW-TWP839-3529	9.85
			GW-TWP844-3544	8.9
			GW-TWP850-3562	9.15
			GW-TWP853-3571	9.01
			GW-TWP855-3577	9.97
			GW-TWP856-3580	13 J

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/L	0.715	GWA42-254	1.23
			GWA42-3275	2.1
			GWA45-256	0.831
			GWA45-3285	0.899
			GWA52-259	0.875
			GWA52-3260	2.4
			GWOW04B-3290	1.56
			GWOW07B-3292	0.947
			GWOW11B-3263	10.5
			GWOW11B-803	2.72
			GWOW15B-3288	0.823
			GW-TWP830-3502	8.18
			GW-TWP831-3505	2.64
			GW-TWP833-3511	33.2
			GW-TWP834-3514	0.826
			GW-TWP839-3529	2.31
			GW-TWP844-3544	1.06
			GW-TWP850-3562	0.969
			GW-TWP852-3568	0.752
			GW-TWP855-3577	1.63
			GW-TWP856-3580	3.04 J
			GW-TWP858-3586	1.04

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/L	5.79	GWA42-254	25.7
			GWA42-3275	23.8
			GWA43-264	11.5
			GWA43-3259	11.9
			GWA45-256	14.8
			GWA45-3285	11.8
			GWA50-3286	8.53
			GWA51-270	7.01
			GWA52-259	17.2
			GWA52-3260	16.5
			GW-MW862-3604	5.95
			GWOW03B-261	6.55
			GWOW04B-3290	24.5
			GWOW06B-262	13
			GWOW06B-3291	7.55
			GWOW07B-3292	7.93
			GWOW08B-798	6.01
			GWOW09B-3262	10.3
			GWOW09B-800	8.88
			GWOW11B-3263	104
			GWOW11B-803	63.4
			GWOW12B-804	6
			GWOW18B-3272	6.92
			GW-TWP830-3502	72.7
			GW-TWP831-3505	23.7
			GW-TWP832-3508	5.93
			GW-TWP833-3511	543
			GW-TWP839-3529	7.02
			GW-TWP844-3544	7.65
			GW-TWP850-3562	7.84
			GW-TWP852-3568	6.63
			GW-TWP853-3571	9.13
			GW-TWP854-3574	6.92
			GW-TWP855-3577	8.29
			GW-TWP856-3580	13.6 J
			GW-TWP858-3586	6.48
Semivolatile Organics				

* Data qualifier included with concentration value

Table 4-118
Exposure Unit 10
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
bis(2-Ethylhexyl)phthalate	μg/L	--	GWA45-3285	9.65 J
			GWA50-3286	2.87 J
			GWA51-270	9.4 J
			GW-MW862-3604	4.43 J
			GWOW01A-3273	71
			GWOW09B-3262	289
			GWOW10B-3277	2.49 J
			GWOW10B-801	14.2
			GWOW17B-3289	1.91 J
Phenol	μg/L	--	GWA42-3275	8.34 J
			GWA45-3285	4.08 J
			GWOW01A-3273	8.14 J
			GWOW02B-3264	13.4
			GWOW05B-3274	6.38 J
			GWOW09B-3262	0.3 J
			GWOW10B-3277	15.8
			GWOW10B-801	57.9
			GWOW11B-3263	0.291 J
			GWOW18A-3271	42.7
			GWOW18B-3272	11.4
Volatile Organics				
2-Butanone	μg/L	4.49	GWBH49A-3261	6.81
			GW-MW862-3604	7.9
			GW-MW863-3607	4.92 J
			GWOW01A-3273	68.6
			GWOW10B-3277	19.1
			GWOW11A-3266	12.5
			GWOW18A-3271	9.67
			GW-TWP834-3514	14.4
Acetone	μg/L	30.5	GWOW01A-3273	101
Methylene chloride	μg/L	--	GW-TWP830-3502	1.92 J
			GW-TWP831-3505	2.09 J
			GW-TWP832-3508	1.94 J
			GW-TWP833-3511	2.08 J
			GW-TWP856-3580	2.13 J
			GW-TWP858-3586	1.93 J

* Data qualifier included with concentration value

Table 4-119
Exposure Unit 11
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Antimony, Dissolved	μg/L	2.4	GW801-236	5.2 B
			GW802-237	4.2 B
			GWBH12-252	5.41 B
			GWBH59-272	5.05 B
Beryllium, Dissolved	μg/L	0.19	GWBH12-252	0.23 B
Lithium, Dissolved	μg/L	972	GWBH12-252	1670
Potassium, Dissolved	μg/L	52400	GWBH12-252	56000
Selenium, Dissolved	μg/L	10.3	GWBH12-252	25.6
Thallium, Dissolved	μg/L	0.222	GW-TWP842-3538	11.4 B
			GW-TWP845-3547	0.95 B
			GW-TWP846-3550	0.325 B
			GW-TWP847-3553	0.225 B
Metals, Total				
Aluminum	μg/L	979	GW801-236	18900 N
			GW802-237	65300 N
			GW813-756	24500 N
			GW-TWP842-3538	51000 *N
			GW-TWP845-3547	13500 *N
			GW-TWP846-3550	34200 *N
			GW-TWP847-3553	35000 *N
			GW-TWP849-3559	67700
Antimony	μg/L	2.34	GW802-237	2.9 B
			GW813-756	3.84 B
			GWBH12-252	17.3
			GWBH59-272	2.92 B
Arsenic	μg/L	30.6	GW-TWP847-3553	40.2
Barium	μg/L	46.8	GW801-236	76.3
			GW802-237	505
			GW813-756	136
			GW-TWP842-3538	284
			GW-TWP845-3547	83.9
			GW-TWP846-3550	303
			GW-TWP847-3553	221
			GW-TWP849-3559	367
Beryllium	μg/L	--	GW801-236	0.65 B
			GW802-237	2.5 B
			GW813-756	0.89 B
			GW-TWP842-3538	2.63 B
			GW-TWP845-3547	0.633 B
			GW-TWP846-3550	1.82 B
			GW-TWP847-3553	1.84 B
			GW-TWP849-3559	2.7 B

* Data qualifier included with concentration value

Table 4-119
Exposure Unit 11
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*	
Chromium	μg/L	3.19	GW801-236	23.9	
			GW802-237	88	
			GW813-756	29.1	
			GW-TWP842-3538	63.7	
			GW-TWP845-3547	15.3	
			GW-TWP846-3550	46.4	
			GW-TWP847-3553	44.9	
			GW-TWP849-3559	91	
Cobalt	μg/L	2.8	GW801-236	11.8	
			GW802-237	47.3	
			GW813-756	13.4	
			GW-TWP842-3538	24.2	
			GW-TWP845-3547	5.81	
			GW-TWP846-3550	23.5	
			GW-TWP847-3553	18	
			GW-TWP849-3559	53.3	
Iron	μg/L	8810	GW801-236	29000	EN
			GW802-237	119000	EN
			GW813-756	33800	N
			GW-TWP842-3538	66400	N
			GW-TWP845-3547	16000	N
			GW-TWP846-3550	62100	N
			GW-TWP847-3553	48900	N
			GW-TWP849-3559	115000	
Lead	μg/L	5.99	GW801-236	7.2	E
			GW802-237	28.9	E
			GW813-756	6.77	E
			GW-TWP842-3538	15.5	
			GW-TWP846-3550	17.7	
			GW-TWP847-3553	27.3	
			GW-TWP849-3559	10.8	B
Lithium	μg/L	1130	GWBH12-252	2050	
Manganese	μg/L	722	GW801-236	1010	
			GW802-237	5740	
			GWBH12-252	808	
			GW-TWP842-3538	1270	
			GW-TWP846-3550	2220	
			GW-TWP847-3553	1550	
			GW-TWP849-3559	4270	

* Data qualifier included with concentration value

Table 4-119
Exposure Unit 11
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Nickel	µg/L	6.48	GW801-236	29.7
			GW802-237	107
			GW813-756	30.6
			GW-TWP842-3538	51.5
			GW-TWP845-3547	8.58
			GW-TWP846-3550	45
			GW-TWP847-3553	36.5
			GW-TWP849-3559	107
Selenium	µg/L	4.24	GW802-237	9.2
			GWBH12-252	15.4 B
Silver	µg/L	0.018	GW801-236	0.28 B
			GW802-237	0.4 B
			GW813-756	0.402 B
			GW-TWP842-3538	0.252 B
			GW-TWP845-3547	0.109 B
			GW-TWP846-3550	0.244 B
			GW-TWP847-3553	0.332 B
Vanadium	µg/L	2.8	GW801-236	36.6
			GW802-237	137
			GW813-756	47
			GW-TWP842-3538	102
			GW-TWP845-3547	25.7
			GW-TWP846-3550	75.3
			GW-TWP847-3553	68.1
			GW-TWP849-3559	147
Zinc	µg/L	131	GW802-237	251 E
			GW-TWP849-3559	223
Pesticides				
4,4'-DDE	µg/L	0.0146	GW-TWP849-3559	0.0546
4,4'-DDT	µg/L	0.0413	GW-TWP849-3559	0.0568
Radionuclides, Dissolved				
Alpha, Dissolved	pCi/L	15	GW-TWP849-3559	19
Potassium-40, Dissolved	pCi/L	--	GW830-757	123
Radium-226, Dissolved	pCi/L	1.31	GW830-757	6.22
			GW-TWP849-3559	2.15
Thorium-228, Dissolved	pCi/L	0.162	GW830-757	1.8
Thorium-230, Dissolved	pCi/L	0.388	GW830-757	11.8
			GW-TWP849-3559	0.519
Thorium-232, Dissolved	pCi/L	0.23	GW830-757	0.938

* Data qualifier included with concentration value

Table 4-119
Exposure Unit 11
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium, Dissolved	µg/L	16.7	GW2A002-661	51
			GW2A003-662	21
			GW830-757	16.8
			GW-TWP846-3550	17.1
			GW-TWP847-3553	19.3
			GW-TWP849-3559	23
Uranium-234, Dissolved	pCi/L	8.94	GW2A002-661	23.6
			GW2A003-662	10.4
			GW-TWP847-3553	9.1
			GW-TWP849-3559	9.79
Uranium-235, Dissolved	pCi/L	0.512	GW2A002-661	0.901
			GW-TWP847-3553	0.874
			GW-TWP849-3559	0.721
Uranium-238, Dissolved	pCi/L	6.32	GW2A002-661	18
			GW2A003-662	8.09
			GW813-756	45.7
			GW-TWP847-3553	7.9
			GW-TWP849-3559	7.93
Radionuclides, Total				
Alpha	pCi/L	15	GW2A002-661	19
			GW2A003-662	16
			GW801-236	99.7
			GW802-237	102
			GW805-240	30.1
			GW813-756	25
			GW-TWP842-3538	38.7
			GW-TWP845-3547	17.3
			GW-TWP847-3553	16.1
			GW-TWP849-3559	56.3
Beta	pCi/L	50	GW801-236	95.4
			GW802-237	144
			GW-TWP842-3538	51.6
			GW-TWP849-3559	109
Radium-226	pCi/L	1.76	GW801-236	1.92
			GW830-757	12.3
			GW-TWP845-3547	2.17
			GW-TWP846-3550	9
			GW-TWP847-3553	1.83
Radium-228	pCi/L	1.67	GW-TWP845-3547	19.6
			GW-TWP846-3550	48.3
			GW-TWP849-3559	1.91

* Data qualifier included with concentration value

Table 4-119
Exposure Unit 11
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-228	pCi/L	0.25	GW801-236	1.6
			GW802-237	0.343 J
			GW813-756	0.493
			GW-TWP842-3538	3.24
			GW-TWP847-3553	4.02
			GW-TWP849-3559	0.627
Thorium-230	pCi/L	0.877	GW801-236	0.944 J
			GW-TWP842-3538	2.85
			GW-TWP847-3553	3.71
Thorium-232	pCi/L	0.229	GW801-236	1.04
			GW813-756	0.317
			GW-TWP842-3538	2.28
			GW-TWP845-3547	0.246
			GW-TWP847-3553	2.52
			GW-TWP849-3559	0.334
Total Uranium	μg/L	15.6	GW2A002-661	27.6
			GW2A003-662	19.2
			GW805-240	32.5
			GW813-756	20.6
			GW-TWP846-3550	15.9
			GW-TWP847-3553	21.9
Uranium-234	pCi/L	8.73	GW2A002-661	14
			GW2A003-662	10.2
			GW805-240	15
			GW813-756	9.2
			GW-TWP849-3559	10.2
Uranium-235	pCi/L	0.715	GW-TWP842-3538	1.92
			GW-TWP847-3553	1.13
			GW-TWP849-3559	1.44
Uranium-238	pCi/L	5.79	GW2A002-661	10.6
			GW805-240	11
			GW813-756	7.14
			GW-TWP842-3538	7.05
			GW-TWP846-3550	8.75
			GW-TWP847-3553	6.62
			GW-TWP849-3559	7.57
Semivolatile Organics				
Di-n-butylphthalate	μg/L	--	GW805-240	21.4
Volatile Organics				
Carbon disulfide	μg/L	--	GWBH12-252	0.6 J

* Data qualifier included with concentration value

Table 4-120
Exposure Unit 12
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Antimony, Dissolved	µg/L	2.4	GW215-188	5.7 B
			GW2A001-660	5.31 J
			GW2C001-664	2.67 B
Barium, Dissolved	µg/L	42.8	GW215A-3252	50.6
Beryllium, Dissolved	µg/L	0.19	GW215-188	0.4 B
Iron, Dissolved	µg/L	9280	GW215A-3252	10500
Manganese, Dissolved	µg/L	966	GW206-175	979
Thallium, Dissolved	µg/L	0.222	GW215-188	0.28 B
			GW2C001-664	0.432 BN
Metals, Total				
Aluminum	µg/L	979	GW206-175	125000
			GW215-188	4500
			GW215A-3252	1660
			GW2A001-660	11500 J
			GW2C001-664	1790
Arsenic	µg/L	30.6	GW206-175	30.9 E
Barium	µg/L	46.8	GW206-175	764
			GW215-188	48.5
			GW215A-3252	52.6
			GW2A001-660	67.7
Beryllium	µg/L	--	GW206-175	5.3 B
			GW215-188	0.62 B
Calcium	µg/L	620000	GW206-175	754000
Chromium	µg/L	3.19	GW206-175	177
			GW215-188	7.3
			GW2A001-660	14.2
Cobalt	µg/L	2.8	GW206-175	81.7
			GW215-188	3.7 B
			GW2A001-660	7.46
Copper	µg/L	204	GW206-175	216
Iron	µg/L	8810	GW206-175	191000
			GW2A001-660	16300
Lead	µg/L	5.99	GW206-175	49
			GW2C001-664	13.3
Manganese	µg/L	722	GW206-175	5310
			GW215A-3252	1140
			GW2A001-660	1030
Nickel	µg/L	6.48	GW206-175	193
			GW215-188	7.1
			GW2A001-660	20.6
Selenium	µg/L	4.24	GW206-175	9.5
			GW215-188	5.4 B

* Data qualifier included with concentration value

Table 4-120
Exposure Unit 12
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Silver	μg/L	0.018	GW206-175	0.57 B
			GW215-188	0.79 B
			GW215A-3252	0.026 B
			GW2A001-660	0.126 J
			GW2C001-664	0.122 B
Vanadium	μg/L	2.8	GW206-175	251
			GW215-188	8.1
			GW2A001-660	21.8
			GW2C001-664	4.42 B
Zinc	μg/L	131	GW206-175	452
PAHs				
Fluoranthene	μg/L	--	GW215A-3252	0.0354 J
Radionuclides, Dissolved				
Alpha, Dissolved	pCi/L	15	GW215A-3252	36.9
Total Uranium, Dissolved	μg/L	16.7	GW215A-3252	45.8
			GW2A001-660	44.5
Uranium-234, Dissolved	pCi/L	8.94	GW215A-3252	20.1
			GW2A001-660	19.4
			GW2C001-664	17.1
Uranium-235, Dissolved	pCi/L	0.512	GW215A-3252	2.61
			GW2A001-660	0.752
Uranium-238, Dissolved	pCi/L	6.32	GW215A-3252	15.7
			GW2A001-660	14.2
			GW2C001-664	13.9
Radionuclides, Total				
Alpha	pCi/L	15	GW205-174	30
			GW206-175	40.9
			GW215-188	140
			GW215A-3252	42.9
			GW2A001-660	36.7
Radium-226	pCi/L	1.76	GW215A-776	3.57
			GW2C001-664	2.12
Radium-228	pCi/L	1.67	GW215A-776	20.2
Thorium-228	pCi/L	0.25	GW204-173	0.879
			GW205-174	0.806 J
			GW206-175	0.518 J
			GW215A-776	2.57
			GW2A001-660	0.281
			GW2C001-664	0.296
Thorium-230	pCi/L	0.877	GW215A-776	1.34

* Data qualifier included with concentration value

Table 4-120
Exposure Unit 12
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-232	pCi/L	0.229	GW204-173	0.586
			GW205-174	0.419 J
			GW206-175	0.386 J
			GW215A-776	0.792
Total Uranium	μg/L	15.6	GW204-173	59.5
			GW205-174	28.6
			GW206-175	37.9
			GW215-188	145
			GW215A-3252	51
			GW215A-776	41
			GW2A001-660	40.3
Uranium-234	pCi/L	8.73	GW204-173	24.4
			GW205-174	9.19
			GW206-175	16.3
			GW215-188	48.8
			GW215A-3252	36.2
			GW215A-776	17.4
			GW2A001-660	18.2
Uranium-235	pCi/L	0.715	GW204-173	0.744
			GW215-188	2.12
			GW215A-3252	4.15
			GW215A-776	0.79
			GW2A001-660	0.773
Uranium-238	pCi/L	5.79	GW204-173	17.7
			GW205-174	6.97
			GW206-175	11.6
			GW215-188	41.2
			GW215A-3252	28.6
			GW215A-776	14.9
			GW2A001-660	12.8
Semivolatile Organics				
Di-n-butylphthalate	μg/L	--	GW215-188	50.7
Pentachlorophenol	μg/L	--	GW215-188	7.4 J
Phenol	μg/L	--	GW215A-3252	7.15 J

* Data qualifier included with concentration value

Table 4-121
Exposure Unit 13
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Barium, Dissolved	μg/L	42.8	GW207-176	51.1
Beryllium, Dissolved	μg/L	0.19	GW213A-775	0.25 J
			GW-MW229-3619	0.271 B
Boron, Dissolved	μg/L	4750	GW203A-3251	7610
			GW213-186	15200
			GW213A-3281	17300
			GW213A-775	8190
Cobalt, Dissolved	μg/L	3	GW213A-775	3.14 J
			GW-MW228-3616	7.62
Manganese, Dissolved	μg/L	966	GW213A-775	1190
Nickel, Dissolved	μg/L	6.15	GW213A-775	20.3
			GW-MW228-3616	8.6
Thallium, Dissolved	μg/L	0.222	GW208-178	0.56 B
			GW-MW229-3619	0.258 B
Metals, Total				
Aluminum	μg/L	979	GW207-176	42200
			GW208-178	48400
			GW209-182	232000
			GW213-186	16100
			GW217-190	6560
			GW-MW228-3616	1540
Arsenic	μg/L	30.6	GW209-182	96.9
Barium	μg/L	46.8	GW207-176	108
			GW208-178	335
			GW209-182	1320
			GW213-186	126
			GW217-190	68.1
Beryllium	μg/L	--	GW208-178	1.8 B
			GW209-182	9.3
			GW213A-775	0.23 J
			GW-MW229-3619	0.263 B
Boron	μg/L	3820	GW203A-3251	8080
			GW213-186	14600
			GW213A-3281	14800
			GW213A-775	7030
			GW-MW228-3616	20700
Calcium	μg/L	620000	GW209-182	2080000
Chromium	μg/L	3.19	GW207-176	12.4
			GW208-178	60.1
			GW209-182	335
			GW213-186	22.6 B
			GW217-190	10 B

* Data qualifier included with concentration value

Table 4-121
Exposure Unit 13
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cobalt	μg/L	2.8	GW207-176	3.9 B
			GW208-178	31
			GW209-182	203
			GW213-186	8.8 B
			GW213A-775	3.37 J
			GW-MW228-3616	7.2
Copper	μg/L	204	GW209-182	699
Iron	μg/L	8810	GW207-176	12200
			GW208-178	71400
			GW209-182	419000
			GW213-186	20400
			GW213A-775	21500
			GW217-190	9240
Lead	μg/L	5.99	GW208-178	18.4
			GW209-182	109
Manganese	μg/L	722	GW203A-3251	768
			GW208-178	3110
			GW209-182	26200
			GW213-186	937
			GW213A-3281	736
			GW213A-775	1790
Nickel	μg/L	6.48	GW207-176	15.5
			GW208-178	73.7
			GW209-182	455
			GW213-186	30.9 B
			GW213A-775	27
			GW-MW228-3616	6.74
Selenium	μg/L	4.24	GW208-178	15.2 B
			GW209-182	22.4
			GW213-186	4.4 B
Silver	μg/L	0.018	GW208-178	0.93 B
			GW209-182	1.4 B
			GW213-186	0.3 B
			GW213A-775	0.237 J
Vanadium	μg/L	2.8	GW207-176	19.4
			GW208-178	90.2
			GW209-182	441
			GW213-186	34.1 B
			GW213A-775	2.86 J
			GW217-190	14.8 B
			GW-MW228-3616	2.84 B

* Data qualifier included with concentration value

Table 4-121
Exposure Unit 13
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Zinc	μg/L	131	GW201A-3250	149
			GW208-178	162
			GW209-182	1080
			GW-MW228-3616	174
Nitroaromatics				
Tetryl	μg/L	--	GW203A-3251	0.032 J
PAHs				
Fluoranthene	μg/L	--	GW-MW228-3616	0.0155 JP
Phenanthrene	μg/L	--	GW-MW228-3616	0.669 J
Pesticides				
4,4'-DDD	μg/L	--	GW201A-3250	0.0292 J
4,4'-DDE	μg/L	0.0146	GW201A-3250	0.0158 J
			GW-MW228-3616	0.0356 J
Dieldrin	μg/L	--	GW201A-3250	0.00891 J
Endosulfan II	μg/L	--	GW201A-3250	0.0155 J
Endrin	μg/L	--	GW201A-3250	0.0114 J
Radionuclides, Dissolved				
Alpha, Dissolved	pCi/L	15	GW203A-3251	44.7
			GW213A-3281	27.1
Cesium-137, Dissolved	pCi/L	--	GW2B006-663	3.59
Thorium-228, Dissolved	pCi/L	0.162	GW2B006-663	0.359
Thorium-230, Dissolved	pCi/L	0.388	GW-MW229-3619	0.648
Total Uranium, Dissolved	μg/L	16.7	GW201A-3250	18.3
			GW203A-3251	49.2
			GW213A-3281	32
			GW2B006-663	55.4
Uranium-234, Dissolved	pCi/L	8.94	GW201A-3250	9.31
			GW201A-773	11.1
			GW203A-3251	23.4
			GW203A-774	16.3
			GW213A-3281	16.6
			GW213A-775	13.3
			GW2B006-663	19.5
Uranium-235, Dissolved	pCi/L	0.512	GW203A-3251	2.55
			GW203A-774	0.633
			GW213A-3281	0.953
			GW213A-775	0.549
			GW2B006-663	1.07

* Data qualifier included with concentration value

Table 4-121
Exposure Unit 13
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238, Dissolved	pCi/L	6.32	GW201A-3250	6.78
			GW201A-773	8.64
			GW203A-3251	17.2
			GW203A-774	13.3
			GW213A-3281	12.8
			GW213A-775	10.3
			GW2B006-663	15.8
Radionuclides, Total				
Alpha	pCi/L	15	GW201-167	46.4
			GW201A-773	15.4
			GW203-172	59.7
			GW203A-3251	39.4
			GW203A-774	22.9
			GW208-178	39.7
			GW209-182	38.9
			GW210-183	15.9
			GW211-184	18.2
			GW212-185	46.4
			GW213-186	56.7
			GW213A-3281	43.5 J
			GW213A-775	16.1
			GW214-187	34.6
			GW216-189	69.8
			GW217-190	39.1
			GW2B006-663	34.6
Cesium-137	pCi/L	--	GW201A-773	27.4
Radium-226	pCi/L	1.76	GW201-167	2.86
			GW208-178	1.98
			GW212-185	7.98
			GW213-186	2.19
Thorium-228	pCi/L	0.25	GW201-167	0.451 J
			GW207-176	1.33
			GW210-183	0.382 J
			GW211-184	0.461 J
			GW212-185	0.624 J
			GW213-186	0.575 J
			GW214-187	0.751 J
			GW216-189	0.862 J
			GW217-190	0.623 J
			GW-MW228-3616	0.585
Thorium-230	pCi/L	0.877	GW-MW229-3619	1.31

* Data qualifier included with concentration value

Table 4-121
Exposure Unit 13
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-232	pCi/L	0.229	GW207-176	0.767
			GW211-184	0.245 J
			GW213-186	0.239 J
			GW214-187	0.626 J
			GW216-189	0.423 J
Total Uranium	μg/L	15.6	GW201-167	31.9
			GW201A-3250	17.3
			GW201A-773	25.9
			GW203-172	46.3
			GW203A-3251	41.4
			GW203A-774	40.2
			GW208-178	27.1
			GW209-182	30.3
			GW211-184	31.3
			GW212-185	18.3
			GW213-186	38.8
			GW213A-3281	40.1
			GW213A-775	37.2
			GW217-190	33.2
			GW2B006-663	41
Uranium-234	pCi/L	8.73	GW201-167	10.6
			GW201A-3250	9.31
			GW201A-773	10.4
			GW203-172	22.7
			GW203A-3251	25.6
			GW203A-774	15.5
			GW208-178	16.4
			GW209-182	14
			GW212-185	8.82
			GW213-186	14.3
			GW213A-3281	16.2 J
			GW213A-775	16.3
			GW217-190	14.9
			GW2B006-663	21.2
Uranium-235	pCi/L	0.715	GW203-172	0.763 J
			GW203A-3251	1.16
			GW209-182	0.889
			GW213A-3281	1.72 J
			GW217-190	0.943 J
			GW2B006-663	0.838

* Data qualifier included with concentration value

Table 4-121
Exposure Unit 13
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/L	5.79	GW201-167	8.52
			GW201A-3250	6.48
			GW201A-773	9.05
			GW203-172	18.9
			GW203A-3251	19.2
			GW203A-774	13.2
			GW208-178	11.5
			GW209-182	10.4
			GW212-185	6.17
			GW213-186	10.9
			GW213A-3281	13.3 J
			GW213A-775	12.8
			GW217-190	11.8
			GW2B006-663	16.3
Semivolatile Organics				
bis(2-Ethylhexyl)phthalate	μg/L	--	GW213A-3281	41.4
			GW-MW228-3616	3.28 J
			GW-MW229-3619	3.14 J
Phenol	μg/L	--	GW203A-3251	12
Volatile Organics				
1,2-Dichloroethane	μg/L	--	GW201-167	1.1
			GW213-186	0.99 J
2-Butanone	μg/L	4.49	GW203A-3251	64
			GW-MW228-3616	13.6
Chloromethane	μg/L	--	GW201-167	1.9
			GW203-172	1.3
			GW213-186	1.6
			GW214-187	1.3
Methylene chloride	μg/L	--	GW201-167	27
			GW203-172	18
			GW213-186	25.8
			GW214-187	20.5
Tetrachloroethene	μg/L	--	GW210-183	0.52 J
			GW213A-775	0.46 J

* Data qualifier included with concentration value

Table 4-122
Exposure Unit 14
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Antimony, Dissolved	µg/L	2.4	GW804-239	2.7 B
Nickel, Dissolved	µg/L	6.15	GW816-789	10.7
Selenium, Dissolved	µg/L	10.3	GW804-239	10.4 B
Vanadium, Dissolved	µg/L	2.6	GW816-3282	3 B
Metals, Total				
Aluminum	µg/L	979	GW804-239	5940
Antimony	µg/L	2.34	GWBH48-265	3.4 B
Barium	µg/L	46.8	GW804-239	52.1
Beryllium	µg/L	--	GW804-239	0.62 B
Chromium	µg/L	3.19	GW804-239	7.4
Cobalt	µg/L	2.8	GW804-239	4.8 B
Copper	µg/L	204	GW816-789	625
Manganese	µg/L	722	GWBH48-265	800
Nickel	µg/L	6.48	GW804-239	11.2
			GW816-789	12.1
Selenium	µg/L	4.24	GW804-239	7.1 B
			GWBH48-265	13.3 B
Silver	µg/L	0.018	GW804-239	0.8 B
			GW816-789	0.39 B
			GWBH48-265	0.25 B
Vanadium	µg/L	2.8	GW804-239	11.1
PAHs				
Benzo(a)anthracene	µg/L	--	GW816-3282	0.0613
Benzo(a)pyrene	µg/L	--	GW816-3282	0.0503
Benzo(g,h,i)perylene	µg/L	--	GW816-3282	0.0549
Benzo(k)fluoranthene	µg/L	0.0334	GW816-3282	0.0708
Dibenzo(a,h)anthracene	µg/L	--	GW816-3282	0.0925
Indeno(1,2,3-cd)pyrene	µg/L	--	GW816-3282	0.0548
Radionuclides, Dissolved				
Thorium-228, Dissolved	pCi/L	0.162	GW817-759	0.422
Total Uranium, Dissolved	µg/L	16.7	GW815-758	24.4
			GW818-760	46
Uranium-234, Dissolved	pCi/L	8.94	GW815-758	10.3
			GW818-760	19.5
Uranium-235, Dissolved	pCi/L	0.512	GW818-760	1
Uranium-238, Dissolved	pCi/L	6.32	GW815-758	7.74
			GW818-760	14.4
Radionuclides, Total				

* Data qualifier included with concentration value

Table 4-122
Exposure Unit 14
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/L	15	GW804-239	17.5
			GW815-758	19.4
			GW817-759	19.5
			GW818-760	20
Cesium-137	pCi/L	--	GW818-760	3.18
Radium-226	pCi/L	1.76	GW815-758	2.33
Thorium-228	pCi/L	0.25	GW803-238	0.907 J
			GW804-239	2.02
			GW815-758	0.349
Thorium-230	pCi/L	0.877	GW804-239	1.52
Thorium-232	pCi/L	0.229	GW803-238	0.43 J
			GW804-239	1.3
Total Uranium	μg/L	15.6	GW803-238	16.4
			GW804-239	32.1
			GW815-758	23.8
			GW818-760	34.1
Uranium-234	pCi/L	8.73	GW804-239	11.7
			GW815-758	9.93
			GW818-760	16.9
Uranium-238	pCi/L	5.79	GW803-238	5.99
			GW804-239	7.87
			GW815-758	8.19
			GW818-760	11.8
Semivolatile Organics				
bis(2-Ethylhexyl)phthalate	μg/L	--	GW816-3282	3.28 J
Di-n-butylphthalate	μg/L	--	GW804-239	22.5
Phenol	μg/L	--	GW816-789	6.1 J

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Aluminum, Dissolved	μg/L	616	GW302A-3253	799
			GW407-210	744 N
			GW415A-781	634
			GWBH57-3278	2960 BN*
			GW-TWP832-3508	716 B
			GW-TWP859-3589	739 B
Antimony, Dissolved	μg/L	2.4	C5-AC-GW-BP3	2.5 J
			C5-SO-GW-D800	2.9 J
			C5-VS-GW-D300	6.4
			GW215-188	5.7 B
			GW2A001-660	5.31 J
			GW2C001-664	2.67 B
			GW303-193	2.5 B
			GW307-197	4.7 B
			GW402-205	3 B
			GW404-207	5.1 B
			GW407-210	4.7 B
			GW423-749	3.07 B
			GW801-236	5.2 B
			GW802-237	4.2 B
			GW804-239	2.7 B
			GW808-243	3.2 B
			GW810-245	6.2 B
			GWA50-258	4.49 B
			GWA56-282	4.9 B
			GWBH12-252	5.41 B
			GWBH50-267	3.21 B
			GWBH51-269	7.62 B
			GWBH59-272	5.05 B
			GWBH62-275	11.7
			GWOW03A-286	3.12 B
			GWOW17A-289	2.94 B
			GWOW20D-257	4.9 B
			GWOW20S-263	3 B
			WO19D-260	2.6 B
Arsenic, Dissolved	μg/L	25.7	GW-TWP835-3517	47 BN
			GW-TWP837-3523	47.6 BN
			GW-TWP856-3580	57.4 B
			GW-TWP858-3586	26.2 B
			GW-TWP859-3589	66.8 B

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Barium, Dissolved	μg/L	42.8	C5-SO-GW-D800	45.3 J
			GW207-176	51.1
			GW215A-3252	50.6
			GW303-193	64.7
			GW308-198	71.1 N*
			GW309-199	46.2 N*
			GW310-200	73.2
			GW409-212	82
			GW417-223	62.4
			GW602-233	66.7 N*
			GW604-235	54.5
			GW809-244	51.7 N*
			GW810-245	96.2
			GWA55-3265	44.3
			GWA57-281	46.2
			GWBH05-251	72.1
			GWBH15-3276	44.7
			GWBH50-3283	258
			GWOW01A-3273	52.5
			GW-TWP835-3517	58.8
			GW-TWP851-3565	147
Beryllium, Dissolved	μg/L	0.19	GW213A-775	0.25 J
			GW215-188	0.4 B
			GW307-197	0.24 B
			GW809-244	0.25 B
			GW810-245	0.38 B
			GWA56-282	0.28 B
			GWBH12-252	0.23 B
			GWBH51-269	11.2
			GWBH57-271	0.44 B
			GWBH62-275	0.45 B
			GW-MW229-3619	0.271 B
			GWOW03A-286	0.21 B
			GWOW06A-287	0.2 B
			GWOW10B-3277	13.3
			GWOW17A-289	0.21 B
			GWOW20D-257	0.67 B
			GW-TWP852-3568	0.254 B

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Boron, Dissolved	μg/L	4750	GW203A-3251	7610
			GW213-186	15200
			GW213A-3281	17300
			GW213A-775	8190
			GW415-221	14400
			GW415A-3280	15100
			GW415A-781	26600
			GW4D003-668	8010
Cadmium, Dissolved	μg/L	2.32	GWBH51-269	11.6
			GWBH57-271	3.77 B
Calcium, Dissolved	μg/L	603000	GWBH57-3278	1270000
Chromium, Dissolved	μg/L	16	GWBH15-253	38.9
			GWBH57-271	22
Cobalt, Dissolved	μg/L	3	GW213A-775	3.14 J
			GW415A-781	6.12
			GW505-783	4.29 B
			GWA43-264	3.3 B
			GWBH15-253	33.4
			GWBH51-269	11.7
			GWBH57-271	19.4
			GW-MW228-3616	7.62
			GW-MW313-3592	9.29
			GW-MW424-3610	6.64
			GW-MW862-3604	7.19
			GW-TWP830-3502	3.03 B
			GW-TWP831-3505	3.45 B
Copper, Dissolved	μg/L	90.9	GWOW06B-3291	108
			GWOW10B-3277	4770
			GWOW11B-3263	107
Iron, Dissolved	μg/L	9280	C5-AC-GW-BP3	18500
			GW213A-775	9790
			GW215A-3252	10500
Lead, Dissolved	μg/L	0.935	C5-AC-GW-BP3	1.5 J
			GWOW14B-3268	2.41
Lithium, Dissolved	μg/L	972	GWBH12-252	1670
			GWBH15-253	1750 NE
			GWBH57-271	7610
			GWBH57-3278	3560
Magnesium, Dissolved	μg/L	618000	C5-VS-GW-D300	1300000
			GW302-192	670000
			GW302A-3253	1180000
			GW808-243	947000
			GW-TWP831-3505	822000

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Manganese, Dissolved	μg/L	966	C5-AC-GW-BP3	1430
			GW206-175	979
			GW213A-775	1190
			GW302-192	1230
			GW409-212	1310
			GW415-221	1780
			GW415A-3280	3350
			GW415A-781	2110
			GWBH57-271	3050
			GWBH57-3278	1860
Nickel, Dissolved	μg/L	6.15	GW213A-775	20.3
			GW302-192	19.5 B
			GW302A-3253	7.65
			GW415-221	195
			GW415A-781	25.6
			GW505-783	9.89
			GW816-789	10.7
			GWA45-256	74
			GWBH51-269	10
			GWBH57-271	72.5 B
			GW-MW228-3616	8.6
			GW-MW313-3592	9.89
			GW-MW424-3610	9.38
			GWOW04A-279	23.3
			GWOW05B-3274	30.6
			GWOW06A-287	12.6
			GWOW06B-262	29.4
			GWOW06B-3291	16.8
			GWOW17A-289	7.31
			GW-TWP851-3565	20.6
Potassium, Dissolved	μg/L	52400	GWA45-256	84300
			GWBH12-252	56000
			GWBH57-3278	94300
			GWOW01A-3273	143000 E
Selenium, Dissolved	μg/L	10.3	GW307-197	13 B
			GW420-226	15.1
			GW804-239	10.4 B
			GWA23A-285	13.8
			GWBH12-252	25.6
			GWBH15-253	10.7 B
			GWBH57-271	44.6
			GW-TWP832-3508	41.7 BN*
			GW-TWP852-3568	62.7 BN*
			GW-TWP858-3586	41.2 BN*

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Sodium, Dissolved	µg/L	1540000	GWBH15-253	1870000 E
			GWBH57-3278	4160000
Thallium, Dissolved	µg/L	0.222	GW208-178	0.56 B
			GW215-188	0.28 B
			GW2C001-664	0.432 BN
			GW409-212	2.4 B
			GW420-226	0.27 B
			GW423-749	0.386 BN
			GW808-243	0.79
			GW809-244	0.96
			GW810-245	0.38 B
			GWA45-256	0.33 B
			GWA50-258	0.646
			GWA52-259	2.44 B
			GWA52-3260	0.328 B
			GWBH50-267	0.435 B
			GW-MW229-3619	0.258 B
			GW-MW861-3601	11.9 B
			GWOW10A-288	0.4 B
			GWOW15B-3288	0.333 B
			GW-TWP837-3523	0.225 B
			GW-TWP842-3538	11.4 B
			GW-TWP844-3544	1.72 B
			GW-TWP845-3547	0.95 B
			GW-TWP846-3550	0.325 B
			GW-TWP847-3553	0.225 B
			GW-TWP851-3565	0.225 B
Vanadium, Dissolved	µg/L	2.6	GW415A-3280	19.2
			GW415A-781	5.19
			GW816-3282	3 B
			GWBH15-253	34.5
			GWBH51-269	10.9
			GWBH57-271	20.2
			GW-TWP858-3586	6.23
Zinc, Dissolved	µg/L	108	GWA57-281	520
			GWOW06B-3291	134
			GWOW10B-3277	643
Metals, Total				

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aluminum	µg/L	979	C5-AC-GW-BP3	3740
			C5-SO-GW-D800	8810
			C5-VS-GW-D300	987 *
			GW102-745	30900 N
			GW103-746	8350 N
			GW206-175	125000
			GW207-176	42200
			GW208-178	48400
			GW209-182	232000
			GW213-186	16100
			GW215-188	4500
			GW215A-3252	1660
			GW217-190	6560
			GW2A001-660	11500 J
			GW2C001-664	1790
			GW302-192	58000
			GW303-193	25000
			GW304-194	21900
			GW306-196	8460
			GW307-197	18100
			GW308-198	38000
			GW309-199	80400
			GW310-200	60400
			GW311-201	61700
			GW401-204	2740
			GW402-205	14100 N
			GW403-206	35100 N
			GW404-207	10700 N
			GW405-208	47700
			GW406-209	48500
			GW407-210	5880 N
			GW409-212	3660
			GW410-213	7220
			GW411-214	410000
			GW415-221	3990
			GW417-223	2680
			GW420-226	20100
			GW423-749	39500
			GW4D003-666	13400 N
			GW4D003-668	14000 N
			GW501-229	2480 N
			GW502-230	19100
			GW503-231	1190
			GW504-752	1370 N

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aluminum	µg/L	979	GW602-233	7690
			GW603-234	290000
			GW604-235	5220 N
			GW605-754	35400
			GW607-755	10100
			GW801-236	18900 N
			GW802-237	65300 N
			GW804-239	5940
			GW807-242	11400 N
			GW808-243	3960
			GW809-244	12700
			GW810-245	31000
			GW813-756	24500 N
			GW822-765	1490
			GW825-768	2330 N
			GWBH70-283	9300
			GW-MW228-3616	1540
			GWOW05A-278	1210
			GW-TWP830-3502	816000
			GW-TWP831-3505	143000
			GW-TWP832-3508	63600
			GW-TWP833-3511	2850
			GW-TWP834-3514	11100
			GW-TWP836-3520	11300
			GW-TWP837-3523	31200
			GW-TWP838-3526	14300
			GW-TWP839-3529	1000000
			GW-TWP842-3538	51000 *N
			GW-TWP844-3544	6300 *N
			GW-TWP845-3547	13500 *N
			GW-TWP846-3550	34200 *N
			GW-TWP847-3553	35000 *N
			GW-TWP849-3559	67700
			GW-TWP850-3562	17300
			GW-TWP851-3565	1330000
			GW-TWP853-3571	199000
			GW-TWP854-3574	15200
			GW-TWP855-3577	21100
			GW-TWP856-3580	18200
			GW-TWP858-3586	317000
			GW-TWP859-3589	13800

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Antimony	µg/L	2.34	C5-AC-GW-BP3	2.8 J
			C5-SO-GW-D800	3.6 J
			C5-VS-GW-D300	6
			GW103-746	5.31 B
			GW402-205	2.7 B
			GW404-207	5.7 B
			GW802-237	2.9 B
			GW813-756	3.84 B
			GWA23A-285	4.57 B
			GWA42-254	3.8 B
			GWA43-264	5.8 B
			GWA45-256	4.7 B
			GWA50-258	10.3
			GWA51-270	4.4 B
			GWA54-280	5.28 B
			GWA57-281	3.6 B
			GWBH05-251	3.7 B
			GWBH12-252	17.3
			GWBH15-253	3.9 B
			GWBH48-265	3.4 B
			GWBH49-266	3.38 B
			GWBH50-267	17.7
			GWBH51-269	3.68 B
			GWBH57-271	4.16 B
			GWBH59-272	2.92 B
			GWBH60-273	3.4 B
			GWBH61-274	4.1 B
			GWBH62-275	5.6 B
			GWBH70-283	3.79 B
			GWOW03A-286	3.09 B
			GWOW03B-261	7.27 B
			GWOW04A-279	12.2
			GWOW05A-278	23.1
			GWOW06A-287	28.2
			GWOW06B-262	6.54 B
			GWOW10A-288	4.22 B
			GWOW17A-289	2.76 B
			GWOW20D-257	3.5 B
			GWOW20S-263	2.9 B
			WO19D-260	3.5 B

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Arsenic	µg/L	30.6	GW206-175	30.9 E
			GW209-182	96.9
			GW302-192	35.3 E
			GW405-208	38.8 B
			GW411-214	40.1 E
			GW603-234	152
			GW-TWP830-3502	594
			GW-TWP831-3505	80.3
			GW-TWP835-3517	65.3 B
			GW-TWP837-3523	563
			GW-TWP839-3529	441 N
			GW-TWP847-3553	40.2
			GW-TWP853-3571	80.1
			GW-TWP858-3586	118

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Barium	µg/L	46.8	C5-SO-GW-D800	108 J
			GW102-745	197
			GW103-746	60.5
			GW206-175	764
			GW207-176	108
			GW208-178	335
			GW209-182	1320
			GW213-186	126
			GW215-188	48.5
			GW215A-3252	52.6
			GW217-190	68.1
			GW2A001-660	67.7
			GW302-192	314
			GW303-193	240
			GW304-194	169
			GW306-196	77.3
			GW307-197	161
			GW308-198	234 N*
			GW309-199	692 N*
			GW310-200	675
			GW311-201	615 N*
			GW401-204	52.3
			GW402-205	67.2
			GW403-206	176
			GW404-207	57.4
			GW405-208	419 N*
			GW406-209	293
			GW407-210	49.5
			GW409-212	118
			GW410-213	70
			GW411-214	3100
			GW417-223	82.8
			GW420-226	212 N*
			GW423-749	420
			GW4D003-666	64.3
			GW4D003-668	66.1
			GW502-230	103
			GW602-233	120 N*
			GW603-234	1930 N*
			GW604-235	88.9
			GW605-754	237
			GW607-755	76.3
			GW801-236	76.3
			GW802-237	505

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Barium	µg/L	46.8	GW804-239	52.1
			GW807-242	61.3
			GW809-244	117 N*
			GW810-245	452
			GW813-756	136
			GWA55-3265	62.4
			GWBH05-251	74.5
			GWBH50-3283	269
			GWBH70-283	81.9
			GWOW01A-3273	62
			GW-TWP830-3502	2500
			GW-TWP831-3505	1140
			GW-TWP832-3508	466
			GW-TWP833-3511	49.3
			GW-TWP834-3514	60.9
			GW-TWP835-3517	47
			GW-TWP836-3520	67
			GW-TWP837-3523	137
			GW-TWP838-3526	97.7
			GW-TWP839-3529	6680
			GW-TWP842-3538	284
			GW-TWP844-3544	51
			GW-TWP845-3547	83.9
			GW-TWP846-3550	303
			GW-TWP847-3553	221
			GW-TWP849-3559	367
			GW-TWP850-3562	114
			GW-TWP851-3565	1850
			GW-TWP853-3571	1000
			GW-TWP854-3574	105
			GW-TWP855-3577	176
			GW-TWP856-3580	86.2
			GW-TWP858-3586	1640
			GW-TWP859-3589	73.1

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beryllium	µg/L	--	GW102-745	1.47 B
			GW206-175	5.3 B
			GW208-178	1.8 B
			GW209-182	9.3
			GW213A-775	0.23 J
			GW215-188	0.62 B
			GW302-192	2.2 B
			GW303-193	1.3 B
			GW304-194	1.4 B
			GW306-196	0.67 B
			GW307-197	1.2 B
			GW308-198	1.5 B
			GW309-199	3.3 B
			GW310-200	3.3 B
			GW311-201	2.6 B
			GW402-205	0.47 B
			GW403-206	1.5 B
			GW404-207	0.37 B
			GW405-208	1.8 B
			GW406-209	1.8 B
			GW407-210	0.19 B
			GW411-214	20.4 B
			GW415-221	0.18 B
			GW417-223	0.34 B
			GW420-226	0.76 B
			GW423-749	1.68 B
			GW4D003-666	0.473 B
			GW4D003-668	0.513 B
			GW502-230	0.82 B
			GW602-233	0.24 B
			GW603-234	13.3
			GW604-235	0.19 B
			GW605-754	1.52 B
			GW801-236	0.65 B
			GW802-237	2.5 B
			GW804-239	0.62 B
			GW807-242	0.56 B
			GW809-244	0.51 B
			GW810-245	2.1 B
			GW813-756	0.89 B
			GWA43-264	0.23 B
			GWBH05-251	0.19 B
			GWBH57-3278	1.32 B
			GWBH70-283	0.46 B

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beryllium	μg/L	--	GW-MW229-3619	0.263 B
			GW-MW863-3607	0.301 B
			GW-TWP830-3502	33.3
			GW-TWP831-3505	6.45
			GW-TWP832-3508	2.87 B
			GW-TWP833-3511	0.273 B
			GW-TWP834-3514	0.58 B
			GW-TWP836-3520	0.577 B
			GW-TWP837-3523	1.22 B
			GW-TWP838-3526	0.606 B
			GW-TWP839-3529	51.5 B
			GW-TWP842-3538	2.63 B
			GW-TWP844-3544	0.189 B
			GW-TWP845-3547	0.633 B
			GW-TWP846-3550	1.82 B
			GW-TWP847-3553	1.84 B
			GW-TWP849-3559	2.7 B
			GW-TWP850-3562	0.905 B
			GW-TWP851-3565	54.1
			GW-TWP852-3568	0.231 B
			GW-TWP853-3571	9.62
			GW-TWP854-3574	0.904 B
			GW-TWP855-3577	0.995 B
			GW-TWP858-3586	15.1
Boron	μg/L	3820	GW203A-3251	8080
			GW213-186	14600
			GW213A-3281	14800
			GW213A-775	7030
			GW415-221	14800
			GW415A-3280	28700
			GW415A-781	21100
			GW4D003-666	8210
			GW4D003-668	8340
			GW-MW228-3616	20700
Cadmium	μg/L	2.51	GW401-204	2.8 B
			GW-TWP830-3502	13.5 B
			GW-TWP853-3571	2.67 B
			GW-TWP858-3586	3.53 B

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Calcium	µg/L	620000	GW206-175	754000
			GW209-182	2080000
			GW302-192	690000
			GW405-208	627000
			GW411-214	2350000
			GW603-234	1310000
			GWA23A-285	651000
			GWBH57-271	2150000
			GWBH57-3278	1030000
			GW-TWP830-3502	3850000
			GW-TWP831-3505	1170000
			GW-TWP837-3523	4360000
			GW-TWP839-3529	2050000
			GW-TWP853-3571	911000
			GW-TWP858-3586	1830000

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Chromium	µg/L	3.19	C5-AC-GW-BP3	6.9 J
			C5-SO-GW-D800	9 J
			GW102-745	38
			GW103-746	9.97
			GW206-175	177
			GW207-176	12.4
			GW208-178	60.1
			GW209-182	335
			GW213-186	22.6 B
			GW215-188	7.3
			GW217-190	10 B
			GW2A001-660	14.2
			GW302-192	81.2
			GW302A-3253	15.4
			GW303-193	31.2
			GW304-194	29.1
			GW306-196	10.4
			GW307-197	22.9
			GW308-198	46.6
			GW309-199	106
			GW310-200	80.4
			GW311-201	74.6
			GW402-205	15.9
			GW403-206	42.2
			GW404-207	12.2
			GW405-208	61.9
			GW406-209	58.3
			GW407-210	7.5
			GW409-212	3.6 B
			GW410-213	7.7
			GW411-214	620
			GW415-221	4.5 B
			GW417-223	3.8 B
			GW420-226	23
			GW423-749	50.6
			GW4D003-666	16.9
			GW4D003-668	17.3
			GW502-230	21.9
			GW602-233	9.5
			GW603-234	427
			GW604-235	6
			GW605-754	48.5
			GW607-755	13.2
			GW801-236	23.9

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Chromium	µg/L	3.19	GW802-237	88
			GW804-239	7.4
			GW807-242	13
			GW808-243	5.1
			GW809-244	15.9
			GW810-245	44.2
			GW813-756	29.1
			GW825-768	3.38 B
			GWBH70-283	13.6
			GWOW05A-278	5.45
			GWOW05B-3274	3.82 B
			GWOW06B-262	5.31
			GWOW10B-801	5.03
			GWOW17B-3289	4.07 B
			GWOW20S-263	9.6
			GW-TWP830-3502	1270
			GW-TWP831-3505	228
			GW-TWP832-3508	85.3
			GW-TWP833-3511	5.74
			GW-TWP834-3514	13.3
			GW-TWP836-3520	12.7
			GW-TWP837-3523	46.4
			GW-TWP838-3526	17
			GW-TWP839-3529	1530
			GW-TWP842-3538	63.7
			GW-TWP844-3544	8.1
			GW-TWP845-3547	15.3
			GW-TWP846-3550	46.4
			GW-TWP847-3553	44.9
			GW-TWP849-3559	91
			GW-TWP850-3562	23
			GW-TWP851-3565	2090
			GW-TWP853-3571	311
			GW-TWP854-3574	19.7
			GW-TWP855-3577	26.6
			GW-TWP856-3580	22
			GW-TWP858-3586	514
			GW-TWP859-3589	15.5

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cobalt	µg/L	2.8	GW102-745	21.4
			GW103-746	4.37 B
			GW206-175	81.7
			GW207-176	3.9 B
			GW208-178	31
			GW209-182	203
			GW213-186	8.8 B
			GW213A-775	3.37 J
			GW215-188	3.7 B
			GW2A001-660	7.46
			GW302-192	40.2 B
			GW303-193	10.4
			GW304-194	13.3
			GW306-196	4.4 B
			GW307-197	12.5
			GW308-198	21.9
			GW309-199	47.4
			GW310-200	33
			GW311-201	38
			GW402-205	5.3
			GW403-206	16.5
			GW404-207	4.4 B
			GW405-208	32.9
			GW406-209	26.1
			GW407-210	2.9 B
			GW411-214	341
			GW415A-781	5.86
			GW420-226	9.4
			GW423-749	29.8
			GW4D003-666	9.31
			GW4D003-668	9.65
			GW502-230	9.3
			GW602-233	3.5 B
			GW603-234	251
			GW605-754	29.4
			GW607-755	6.23
			GW801-236	11.8
			GW802-237	47.3
			GW804-239	4.8 B
			GW807-242	5.9
			GW809-244	6.2
			GW810-245	23.5
			GW813-756	13.4
			GWA52-259	3.14 B

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cobalt	μg/L	2.8	GWBH70-283	7.2
			GW-MW228-3616	7.2
			GW-MW313-3592	19.9
			GW-MW424-3610	5.52
			GW-MW862-3604	21.9
			GW-TWP830-3502	645
			GW-TWP831-3505	119
			GW-TWP832-3508	44.2
			GW-TWP833-3511	2.98 B
			GW-TWP834-3514	6.05
			GW-TWP836-3520	3.59 B
			GW-TWP837-3523	28
			GW-TWP838-3526	7.68
			GW-TWP839-3529	672
			GW-TWP842-3538	24.2
			GW-TWP844-3544	4.68 B
			GW-TWP845-3547	5.81
			GW-TWP846-3550	23.5
			GW-TWP847-3553	18
			GW-TWP849-3559	53.3
			GW-TWP850-3562	11.7
			GW-TWP851-3565	1090
			GW-TWP853-3571	159
			GW-TWP854-3574	9.58
			GW-TWP855-3577	12.9
			GW-TWP856-3580	9.57
			GW-TWP858-3586	268
			GW-TWP859-3589	7.7
Copper	μg/L	204	GW206-175	216
			GW209-182	699
			GW311-201	422
			GW411-214	1440
			GW603-234	899
			GW605-754	211
			GW816-789	625
			GWBH57-3278	401
			GW-TWP830-3502	2880
			GW-TWP831-3505	335
			GW-TWP839-3529	2920
			GW-TWP851-3565	2370
			GW-TWP853-3571	362
			GW-TWP858-3586	646

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Iron	µg/L	8810	C5-AC-GW-BP3	29000 J
			C5-SO-GW-D800	12700
			GW102-745	42900 N
			GW103-746	9860 N
			GW206-175	191000
			GW207-176	12200
			GW208-178	71400
			GW209-182	419000
			GW213-186	20400
			GW213A-775	21500
			GW217-190	9240
			GW2A001-660	16300
			GW302-192	98500
			GW303-193	30300
			GW304-194	30600
			GW306-196	11700
			GW307-197	25200
			GW308-198	51500
			GW309-199	121000
			GW310-200	87300
			GW311-201	102000
			GW402-205	16900 EN
			GW403-206	50000 EN
			GW404-207	13400 EN
			GW405-208	90200
			GW406-209	65100
			GW407-210	9670 EN
			GW411-214	802000
			GW420-226	27800
			GW423-749	64500
			GW4D003-666	22600
			GW4D003-668	23400
			GW502-230	23500
			GW602-233	11200
			GW603-234	577000
			GW605-754	67200
			GW607-755	15100
			GW801-236	29000 EN
			GW802-237	119000 EN
			GW807-242	14700 EN
			GW809-244	17600
			GW810-245	65500
			GW813-756	33800 N
			GWBH57-3278	9420

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Iron	µg/L	8810	GWBH70-283	16500
			GW-TWP830-3502	1740000
			GW-TWP831-3505	293000
			GW-TWP832-3508	99600
			GW-TWP834-3514	12400
			GW-TWP836-3520	13200
			GW-TWP837-3523	49900
			GW-TWP838-3526	17500
			GW-TWP839-3529	1530000
			GW-TWP842-3538	66400 N
			GW-TWP845-3547	16000 N
			GW-TWP846-3550	62100 N
			GW-TWP847-3553	48900 N
			GW-TWP849-3559	115000
			GW-TWP850-3562	22400
			GW-TWP851-3565	2430000
			GW-TWP853-3571	358000
			GW-TWP854-3574	24300
			GW-TWP855-3577	26300
			GW-TWP856-3580	23000
			GW-TWP858-3586	586000
			GW-TWP859-3589	17200

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Lead	µg/L	5.99	C5-AC-GW-BP3	25.3
			GW102-745	11.8 E
			GW206-175	49
			GW208-178	18.4
			GW209-182	109
			GW2C001-664	13.3
			GW302-192	24.5
			GW303-193	6.9 B
			GW304-194	7.1 B
			GW307-197	7.9 B
			GW308-198	20.1 E
			GW309-199	31.9 E
			GW310-200	36.4
			GW311-201	29.3 E
			GW403-206	15.2 E
			GW405-208	34.5 E
			GW406-209	17.4
			GW411-214	37.3
			GW420-226	7.8 BE
			GW502-230	8.4 B
			GW603-234	165 E
			GW605-754	7.24
			GW801-236	7.2 E
			GW802-237	28.9 E
			GW810-245	24.3
			GW813-756	6.77 E
			GWBH57-3278	11.9
			GWBH70-283	6.86
			GW-TWP830-3502	398
			GW-TWP831-3505	73.3
			GW-TWP832-3508	26.6
			GW-TWP835-3517	34.3 B
			GW-TWP837-3523	603
			GW-TWP839-3529	520
			GW-TWP842-3538	15.5
			GW-TWP846-3550	17.7
			GW-TWP847-3553	27.3
			GW-TWP849-3559	10.8 B
			GW-TWP850-3562	6.18 B
			GW-TWP853-3571	93.9
			GW-TWP854-3574	15.3
			GW-TWP858-3586	156
			GW-TWP859-3589	6.08 J

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Lithium	μg/L	1130	GWBH12-252	2050
			GWBH15-253	1600 E
			GWBH57-271	7370
			GWBH57-3278	2500
			GW-TWP830-3502	1200
			GW-TWP837-3523	3150
			GW-TWP839-3529	1610 N
Magnesium	μg/L	580000	C5-VS-GW-D300	1360000
			GW302-192	756000
			GW302A-3253	1130000
			GW411-214	680000
			GW808-243	866000
			GW808A-3257	701000
			GW-TWP830-3502	1150000 E
			GW-TWP831-3505	921000 E
			GW-TWP837-3523	1610000
			GW-TWP839-3529	719000

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Manganese	µg/L	722	C5-AC-GW-BP3	1520 *
			GW102-745	1800
			GW203A-3251	768
			GW206-175	5310
			GW208-178	3110
			GW209-182	26200
			GW213-186	937
			GW213A-3281	736
			GW213A-775	1790
			GW215A-3252	1140
			GW2A001-660	1030
			GW302-192	4600
			GW302A-3253	770
			GW304-194	830
			GW307-197	844
			GW308-198	2480
			GW309-199	4080
			GW310-200	3170
			GW311-201	7840
			GW403-206	2190
			GW405-208	7720
			GW406-209	1560
			GW409-212	1290
			GW411-214	36500
			GW415-221	1630
			GW415A-3280	1600
			GW415A-781	3060
			GW420-226	1400
			GW423-749	1810
			GW603-234	22400
			GW605-754	2270
			GW801-236	1010
			GW802-237	5740
			GW810-245	3330
			GWA23A-285	904
			GWA42-254	927
			GWA43-264	817
			GWBH12-252	808
			GWBH15-253	802
			GWBH48-265	800
			GWBH57-271	3060
			GWBH57-3278	1330
			GWBH70-283	913
			GW-MW313-3592	1270

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Manganese	µg/L	722	GW-MW862-3604	870
			GW-TWP830-3502	74300
			GW-TWP831-3505	16800
			GW-TWP832-3508	4600
			GW-TWP837-3523	1370
			GW-TWP839-3529	34700
			GW-TWP842-3538	1270
			GW-TWP846-3550	2220
			GW-TWP847-3553	1550
			GW-TWP849-3559	4270
			GW-TWP850-3562	806
			GW-TWP851-3565	78300
			GW-TWP853-3571	17200
			GW-TWP854-3574	3180
			GW-TWP855-3577	1150
			GW-TWP858-3586	24400
Mercury	µg/L	0.17	GW-TWP830-3502	0.509
			GW-TWP831-3505	0.199 B
			GW-TWP839-3529	1.01
			GW-TWP851-3565	0.56
			GW-TWP858-3586	0.302

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Nickel	µg/L	6.48	C5-SO-GW-D800	11.3 J
			GW102-745	43
			GW103-746	10.6
			GW206-175	193
			GW207-176	15.5
			GW208-178	73.7
			GW209-182	455
			GW213-186	30.9 B
			GW213A-775	27
			GW215-188	7.1
			GW2A001-660	20.6
			GW302-192	107
			GW302A-3253	7.49
			GW303-193	32.3
			GW304-194	34.9
			GW306-196	10.2
			GW307-197	26.3
			GW308-198	50
			GW309-199	113
			GW310-200	86.4
			GW311-201	90.2
			GW401-204	14 B
			GW402-205	16.7
			GW403-206	44.7
			GW404-207	16.2
			GW405-208	76.3
			GW406-209	66.7
			GW407-210	10.1
			GW411-214	762
			GW415-221	149
			GW415A-781	21.1
			GW420-226	25.3
			GW423-749	65.4
			GW4D003-666	23.9
			GW4D003-668	24.5
			GW502-230	25.1
			GW602-233	10.2
			GW603-234	542
			GW604-235	6.5
			GW605-754	61.9
			GW607-755	15.3
			GW801-236	29.7
			GW802-237	107
			GW804-239	11.2

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Nickel	µg/L	6.48	GW807-242	14.8
			GW808-243	8.7
			GW809-244	17.1
			GW810-245	51.3
			GW813-756	30.6
			GW816-789	12.1
			GWBH70-283	15.5
			GW-MW228-3616	6.74
			GW-MW313-3592	17.8
			GW-MW862-3604	15.6
			GWOW04A-279	24.8
			GWOW05A-278	11.6
			GWOW05B-3274	32.6
			GWOW06A-287	10.5
			GWOW06B-262	33.5
			GWOW06B-3291	16.3
			GWOW10B-801	11.9
			GW-TWP830-3502	1410
			GW-TWP831-3505	236
			GW-TWP832-3508	93
			GW-TWP834-3514	20.5
			GW-TWP836-3520	14.9
			GW-TWP837-3523	53.2
			GW-TWP838-3526	17.2
			GW-TWP839-3529	1540
			GW-TWP842-3538	51.5
			GW-TWP844-3544	7.46
			GW-TWP845-3547	8.58
			GW-TWP846-3550	45
			GW-TWP847-3553	36.5
			GW-TWP849-3559	107
			GW-TWP850-3562	23.9
			GW-TWP851-3565	2340
			GW-TWP853-3571	330
			GW-TWP854-3574	23
			GW-TWP855-3577	26.4
			GW-TWP856-3580	21.8
			GW-TWP858-3586	563
			GW-TWP859-3589	16.3

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Potassium	µg/L	62100	GW411-214	75300
			GWBH57-271	133000
			GWBH57-3278	78400 E
			GWOW01A-3273	209000 E
			GW-TWP830-3502	146000
			GW-TWP839-3529	207000
			GW-TWP851-3565	240000
			GW-TWP858-3586	75300

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	µg/L	4.24	C5-AC-GW-BP3	5.2 J
			C5-SO-GW-D800	4.6 J
			C5-VS-GW-D300	7.3
			GW206-175	9.5
			GW208-178	15.2 B
			GW209-182	22.4
			GW213-186	4.4 B
			GW215-188	5.4 B
			GW302-192	6.4 B
			GW303-193	7.5 B
			GW304-194	9.1 B
			GW306-196	4.3 B
			GW307-197	14.2 B
			GW308-198	5.4 B
			GW309-199	8.2 B
			GW310-200	10.5 B
			GW311-201	8.3 B
			GW403-206	4.5 B
			GW405-208	17.9 B
			GW409-212	14.3 B
			GW410-213	12 B
			GW411-214	11.6
			GW415-221	6.4 B
			GW415A-781	4.57 B
			GW420-226	16.4 B
			GW502-230	6.7 B
			GW503-231	10 B
			GW603-234	39.7 B
			GW605-754	9.78
			GW802-237	9.2
			GW804-239	7.1 B
			GW808-243	8.6 B
			GW810-245	4.7 B
			GW822-765	4.64 B
			GWA23A-285	4.91
			GWBH12-252	15.4 B
			GWBH15-253	22.1
			GWBH48-265	13.3 B
			GWBH57-271	19.1 B
			GWBH57-3278	13.7
			GWBH62-275	6.5 B
			GWOW07B-3292	4.49 B
			GW-TWP837-3523	48.6 B
			GW-TWP839-3529	25.3

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	µg/L	4.24	WO19D-260	6.6 B

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Silver	µg/L	0.018	GW102-745	0.37 B
			GW103-746	0.34 B
			GW206-175	0.57 B
			GW208-178	0.93 B
			GW209-182	1.4 B
			GW213-186	0.3 B
			GW213A-775	0.237 J
			GW215-188	0.79 B
			GW215A-3252	0.026 B
			GW2A001-660	0.126 J
			GW2C001-664	0.122 B
			GW302-192	0.48 B
			GW302A-3253	0.025 B
			GW303-193	0.79 B
			GW304-194	0.88 B
			GW306-196	0.76 B
			GW307-197	0.89 B
			GW308-198	0.71 B
			GW309-199	0.93 B
			GW310-200	1 B
			GW311-201	1.4 B
			GW401-204	0.27 B
			GW403-206	0.34 B
			GW405-208	0.45 B
			GW406-209	0.51 B
			GW409-212	0.36 B
			GW411-214	0.49 B
			GW415-221	0.31 B
			GW415A-3280	0.036 B
			GW415A-781	0.183 B
			GW417-223	0.99 B
			GW420-226	2 B
			GW423-749	0.078 B
			GW4D003-666	0.123 B
			GW4D003-668	0.228 B
			GW504-752	0.085 B
			GW505-783	0.163 B
			GW603-234	1.3 B
			GW605-754	0.372 B
			GW607-755	0.153 B
			GW801-236	0.28 B
			GW802-237	0.4 B
			GW804-239	0.8 B
			GW807-242	0.25 B

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Silver	µg/L	0.018	GW808-243	0.75 B
			GW808A-3257	0.03 B
			GW810-245	0.88 B
			GW813-756	0.402 B
			GW816-789	0.39 B
			GW822-765	0.293 B
			GW825-768	0.097 B
			GWA23A-285	0.174 B
			GWA42-254	0.35 B
			GWA43-264	0.23 B
			GWA45-256	0.3 B
			GWA50-258	0.217 B
			GWA51-270	0.26 B
			GWA52-259	0.66 B
			GWA56-282	0.18 B
			GWA57-281	0.19 B
			GWBH05-251	0.68 B
			GWBH15-253	0.26 B
			GWBH48-265	0.25 B
			GWBH50-267	0.174 B
			GWBH51-269	0.167 B
			GWBH57-271	0.81 B
			GWBH57-3278	0.033 B
			GWBH60-273	0.23 B
			GWBH61-274	0.2 B
			GWBH62-275	0.31 B
			GWBH63-277	0.27 B
			GWBH70-283	0.201 B
			GW-MW863-3607	0.075 B
			GWOW03B-261	0.216 B
			GWOW06B-262	0.168 B
			GWOW06B-3291	0.047 B
			GWOW10A-288	0.68 B
			GWOW10B-801	0.176 B
			GWOW17B-3289	0.028 B
			GWOW20D-257	0.73 B
			GWOW20S-263	0.25 B
			GW-TWP830-3502	3.37 B
			GW-TWP831-3505	0.995 B
			GW-TWP832-3508	0.27 B
			GW-TWP836-3520	0.04 B
			GW-TWP837-3523	5.07 B
			GW-TWP838-3526	0.099 B
			GW-TWP839-3529	4.47 B

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Silver	μg/L	0.018	GW-TWP842-3538	0.252 B
			GW-TWP844-3544	0.071 B
			GW-TWP845-3547	0.109 B
			GW-TWP846-3550	0.244 B
			GW-TWP847-3553	0.332 B
			GW-TWP853-3571	0.935 B
			GW-TWP854-3574	0.187 B
			GW-TWP855-3577	0.065 B
			GW-TWP856-3580	0.05 J
			GW-TWP858-3586	1.5 B
			WO19D-260	0.18 B
Sodium	μg/L	1200000	GWBH15-253	1730000 E
			GWBH57-3278	2570000
Thallium	μg/L	1.72	GW308-198	3.8 B
			GW309-199	14.8
			GW409-212	2.1 B
			GW809-244	11.3
			GWA52-259	2.81
			GW-MW863-3607	2.34 B
			GW-TWP830-3502	3.59 E
			GW-TWP837-3523	3.58 B
			GW-TWP839-3529	6.32
			GW-TWP853-3571	2.04 B
			GW-TWP858-3586	2.56 E

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Vanadium	µg/L	2.8	C5-SO-GW-D800	12.4 J
			GW102-745	58.3
			GW103-746	16.7
			GW206-175	251
			GW207-176	19.4
			GW208-178	90.2
			GW209-182	441
			GW213-186	34.1 B
			GW213A-775	2.86 J
			GW215-188	8.1
			GW217-190	14.8 B
			GW2A001-660	21.8
			GW2C001-664	4.42 B
			GW302-192	130
			GW303-193	46.2
			GW304-194	40
			GW306-196	16.1
			GW307-197	33.3
			GW308-198	77.2
			GW309-199	165
			GW310-200	116
			GW311-201	128
			GW401-204	8.9 B
			GW402-205	27
			GW403-206	68.8
			GW404-207	21.9
			GW405-208	111
			GW406-209	88.5
			GW407-210	12.2
			GW409-212	6.1
			GW410-213	12.8
			GW411-214	875
			GW415-221	7.8
			GW417-223	5.3
			GW420-226	40.5
			GW423-749	74.3
			GW4D003-666	25.9
			GW4D003-668	26.8
			GW501-229	6
			GW502-230	34.6
			GW504-752	3.34 B
			GW505-783	5.93
			GW602-233	15.6
			GW603-234	610

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Vanadium	µg/L	2.8	GW604-235	10.8
			GW605-754	77.4
			GW607-755	20.9
			GW801-236	36.6
			GW802-237	137
			GW804-239	11.1
			GW807-242	22.2
			GW808-243	7.3
			GW809-244	25.6
			GW810-245	69.5
			GW813-756	47
			GW822-765	4.49 B
			GW825-768	5.11
			GWBH70-283	17.3
			GW-MW228-3616	2.84 B
			GW-TWP830-3502	1960
			GW-TWP831-3505	373
			GW-TWP832-3508	133
			GW-TWP834-3514	22 B
			GW-TWP836-3520	20.5
			GW-TWP837-3523	69.9
			GW-TWP838-3526	26.7
			GW-TWP839-3529	1970
			GW-TWP842-3538	102
			GW-TWP844-3544	12.6
			GW-TWP845-3547	25.7
			GW-TWP846-3550	75.3
			GW-TWP847-3553	68.1
			GW-TWP849-3559	147
			GW-TWP850-3562	39.7
			GW-TWP851-3565	2700
			GW-TWP853-3571	446
			GW-TWP854-3574	34.3
			GW-TWP855-3577	44.3
			GW-TWP856-3580	29.2
			GW-TWP858-3586	721

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Zinc	μg/L	131	C5-AC-GW-BP3	216
			GW201A-3250	149
			GW206-175	452
			GW208-178	162
			GW209-182	1080
			GW302-192	235
			GW309-199	273
			GW310-200	234
			GW311-201	253
			GW405-208	220
			GW406-209	148
			GW411-214	1900
			GW423-749	146
			GW505-3279	460
			GW603-234	1350
			GW605-754	152
			GW802-237	251 E
			GW808A-3257	135
			GW810-245	183
			GWA57-281	543
			GWBH57-3278	282
			GW-MW228-3616	174
			GW-TWP830-3502	3540
			GW-TWP831-3505	535
			GW-TWP832-3508	189
			GW-TWP839-3529	3640
			GW-TWP849-3559	223
			GW-TWP851-3565	4950
			GW-TWP853-3571	744
			GW-TWP858-3586	1280
Pesticides				
4,4'-DDE	μg/L	0.0146	GW201A-3250	0.0158 J
			GWBH49A-3261	0.0335 J
			GW-MW228-3616	0.0356 J
			GW-MW313-3592	0.055
			GW-MW424-3610	0.0323 J
			GW-TWP849-3559	0.0546
			GW-TWP851-3565	0.0206 J
			GW-TWP859-3589	0.0355 J
4,4'-DDT	μg/L	0.0413	GW313-747	0.078 P
			GW-TWP849-3559	0.0568
			GW-TWP855-3577	0.0492
Radionuclides, Dissolved				

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha, Dissolved	pCi/L	15	GW203A-3251	44.7
			GW213A-3281	27.1
			GW215A-3252	36.9
			GW302A-3253	70.2
			GW505-3279	20.5
			GW808A-3257	25.4
			GWA42-3275	40.7
			GWA43-3259	34.1
			GWA45-3285	22.3
			GWA52-3260	55.7
			GW-MW313-3592	16
			GWOW04B-3290	48.1
			GWOW06B-3291	21.7
			GWOW07B-3292	16.3
			GWOW09B-3262	19.1
			GWOW11B-3263	134
			GW-TWP830-3502	20.7
			GW-TWP831-3505	58.8
			GW-TWP833-3511	610
			GW-TWP844-3544	17.1
			GW-TWP849-3559	19
			GW-TWP852-3568	15.4
			GW-TWP856-3580	16.8
Beta, Dissolved	pCi/L	50	GWA55-3265	453
			GWBH57-3278	53
			GWOW01A-3273	125
			GWOW11B-3263	115
			GW-TWP833-3511	168
Potassium-40, Dissolved	pCi/L	--	GW830-757	123
Radium-226, Dissolved	pCi/L	1.31	GW830-757	6.22
			GW-TWP837-3523	2.54
			GW-TWP849-3559	2.15
			GW-TWP851-3565	2.75
Radium-228, Dissolved	pCi/L	1.6	GWBH57-3278	2.14
			GWOW07B-3292	1.87
Thorium-228, Dissolved	pCi/L	0.162	GW2B006-663	0.359
			GW302A-3253	0.334
			GW411A-780	0.228
			GW808A-787	0.318
			GW817-759	0.422
			GW830-757	1.8
			GWA43-3259	0.169
			GWOW08A-797	0.197

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230, Dissolved	pCi/L	0.388	GW303A-3254	0.554
			GW411A-3255	0.644
			GW830-757	11.8
			GW-MW229-3619	0.648
			GW-MW313-3592	0.44
			GW-MW424-3610	0.434
			GW-MW861-3601	0.527
			GWOW09B-3262	0.61 J
			GWOW14B-3268	4.68
			GW-TWP836-3520	1.08
			GW-TWP838-3526	0.679
			GW-TWP839-3529	0.612
			GW-TWP849-3559	0.519
			GW-TWP851-3565	0.433
			GW-TWP852-3568	0.4
			GW-TWP853-3571	0.453
			GW-TWP856-3580	0.675
			GW-TWP858-3586	0.398
			GW-TWP859-3589	0.413

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium, Dissolved	µg/L	16.7	GW201A-3250	18.3
			GW203A-3251	49.2
			GW213A-3281	32
			GW215A-3252	45.8
			GW2A001-660	44.5
			GW2A002-661	51
			GW2A003-662	21
			GW2B006-663	55.4
			GW302A-3253	126
			GW415A-781	30.1
			GW4D003-668	22.5
			GW4D005-670	35.9
			GW505-3279	30.2
			GW506-753	47.2
			GW808A-3257	38.9
			GW815-758	24.4
			GW818-760	46
			GW820-763	23.7
			GW821-764	24.3
			GW825-768	18.2
			GW830-757	16.8
			GWA42-3275	63.7
			GWA43-3259	45.9
			GWA45-3285	37.4
			GWA50-3286	18.2
			GWA52-3260	52.4
			GWBH49A-3261	42.9
			GW-MW313-3592	27.1
			GWOW04B-3290	73.5
			GWOW06B-3291	28.2
			GWOW07B-3292	19.6
			GWOW09B-3262	25.1
			GWOW11B-3263	248
			GWOW13B-3267	29.2
			GWOW18B-3272	22
			GW-TWP830-3502	25.8
			GW-TWP831-3505	67.7
			GW-TWP833-3511	9580
			GW-TWP835-3517	28.3
			GW-TWP838-3526	24.9
			GW-TWP839-3529	17.4
			GW-TWP844-3544	21.7
			GW-TWP846-3550	17.1
			GW-TWP847-3553	19.3

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium, Dissolved	µg/L	16.7	GW-TWP849-3559	23
			GW-TWP850-3562	22.5
			GW-TWP852-3568	21.9
			GW-TWP854-3574	19
			GW-TWP855-3577	24
			GW-TWP856-3580	27.8

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234, Dissolved	pCi/L	8.94	GW201A-3250	9.31
			GW201A-773	11.1
			GW203A-3251	23.4
			GW203A-774	16.3
			GW213A-3281	16.6
			GW213A-775	13.3
			GW215A-3252	20.1
			GW2A001-660	19.4
			GW2A002-661	23.6
			GW2A003-662	10.4
			GW2B006-663	19.5
			GW2C001-664	17.1
			GW302A-3253	57.5
			GW302A-777	57.4
			GW415A-781	12.2
			GW415A-782	12
			GW4D003-668	9.12
			GW505-3279	14.2
			GW506-753	22.1
			GW808A-3257	18.3
			GW808A-787	19.1
			GW815-758	10.3
			GW818-760	19.5
			GW820-763	10.6
			GW821-764	10.7
			GW825-769	8.98
			GWA42-3275	28.2
			GWA43-3259	17.1
			GWA45-3285	19.1
			GWA52-3260	23.6
			GW-MW313-3592	13.8
			GWOW04B-3290	23.8
			GWOW06B-3291	12.1
			GWOW07B-3292	11.4
			GWOW09B-3262	13.5
			GWOW09B-800	13.9
			GWOW11B-3263	106
			GWOW11B-803	93
			GWOW13B-3267	10.2
			GW-TWP830-3502	11.4
			GW-TWP831-3505	35.2
			GW-TWP833-3511	319
			GW-TWP835-3517	12.9
			GW-TWP838-3526	9.51

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234, Dissolved	pCi/L	8.94	GW-TWP844-3544	9.27
			GW-TWP847-3553	9.1
			GW-TWP849-3559	9.79
			GW-TWP850-3562	9.47
			GW-TWP852-3568	9.31
			GW-TWP855-3577	11
			GW-TWP856-3580	11.1

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235, Dissolved	pCi/L	0.512	GW203A-3251	2.55
			GW203A-774	0.633
			GW213A-3281	0.953
			GW213A-775	0.549
			GW215A-3252	2.61
			GW2A001-660	0.752
			GW2A002-661	0.901
			GW2B006-663	1.07
			GW302A-3253	3.46
			GW302A-777	1.87
			GW411A-3255	0.831
			GW415A-3280	0.82
			GW415A-781	0.587
			GW415A-782	0.527
			GW505-3279	0.684
			GW506-753	0.629
			GW808A-3257	1.43
			GW808A-787	0.749
			GW818-760	1
			GW821-764	0.551
			GWA42-3275	1.94
			GWA43-3259	1.92
			GWA45-3285	0.958
			GWA50-3286	0.684
			GWA52-3260	0.94
			GW-MW313-3592	0.693
			GW-MW424-3610	0.531
			GW-MW860-3598	1.37
			GWOW04B-3290	1.78
			GWOW07B-3292	1.19
			GWOW09B-3262	0.52
			GWOW11B-3263	4.95
			GWOW11B-803	4.12
			GWOW13B-3267	0.537
			GWOW18B-3272	0.605
			GW-TWP830-3502	0.658
			GW-TWP831-3505	2.02
			GW-TWP833-3511	39.1
			GW-TWP835-3517	1.02
			GW-TWP836-3520	0.626
			GW-TWP838-3526	0.927
			GW-TWP839-3529	0.55
			GW-TWP844-3544	1.38
			GW-TWP847-3553	0.874

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235, Dissolved	pCi/L	0.512	GW-TWP849-3559	0.721
			GW-TWP852-3568	0.518
			GW-TWP853-3571	0.561
			GW-TWP854-3574	0.559
			GW-TWP855-3577	0.725
			GW-TWP856-3580	1.25

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238, Dissolved	pCi/L	6.32	GW201A-3250	6.78
			GW201A-773	8.64
			GW203A-3251	17.2
			GW203A-774	13.3
			GW213A-3281	12.8
			GW213A-775	10.3
			GW215A-3252	15.7
			GW2A001-660	14.2
			GW2A002-661	18
			GW2A003-662	8.09
			GW2B006-663	15.8
			GW2C001-664	13.9
			GW302A-3253	44.4
			GW302A-777	42.7
			GW415A-782	8.99
			GW4D003-666	7.21
			GW4D003-668	6.94
			GW505-3279	11.9
			GW506-753	17.5
			GW808A-3257	15.1
			GW808A-787	15.8
			GW813-756	45.7
			GW815-758	7.74
			GW818-760	14.4
			GW820-763	8.07
			GW821-764	8.24
			GWA42-3275	25.7
			GWA43-3259	14.2
			GWA45-3285	13.8
			GWA52-3260	18.5
			GW-MW313-3592	11.1
			GWOW04B-3290	20.9
			GWOW06B-3291	9.07
			GWOW07B-3292	8.72
			GWOW08B-798	6.42
			GWOW09B-3262	9.32
			GWOW09B-800	10.2
			GWOW11B-3263	101
			GWOW11B-803	89.3
			GWOW12B-804	6.7
			GWOW13B-3267	8.38
			GW-TWP830-3502	9.11
			GW-TWP831-3505	30
			GW-TWP833-3511	301

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238, Dissolved	pCi/L	6.32	GW-TWP835-3517	9.85
			GW-TWP838-3526	7.51
			GW-TWP844-3544	7.46
			GW-TWP847-3553	7.9
			GW-TWP849-3559	7.93
			GW-TWP852-3568	7.31
			GW-TWP855-3577	7.54
			GW-TWP856-3580	8.39
Radionuclides, Total				

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/L	15	GW101-744	15.5
			GW201-167	46.4
			GW201A-773	15.4
			GW203-172	59.7
			GW203A-3251	39.4
			GW203A-774	22.9
			GW205-174	30
			GW206-175	40.9
			GW208-178	39.7
			GW209-182	38.9
			GW210-183	15.9
			GW211-184	18.2
			GW212-185	46.4
			GW213-186	56.7
			GW213A-3281	43.5 J
			GW213A-775	16.1
			GW214-187	34.6
			GW215-188	140
			GW215A-3252	42.9
			GW216-189	69.8
			GW217-190	39.1
			GW2A001-660	36.7
			GW2A002-661	19
			GW2A003-662	16
			GW2B006-663	34.6
			GW302-192	132
			GW302A-3253	53.9
			GW302A-777	59.7
			GW303-193	55.7
			GW304-194	69.5
			GW306-196	25.6
			GW307-197	91.9
			GW308-198	20.7
			GW310-200	34.3
			GW312-203	26.4
			GW313-747	21.9
			GW401-204	81.1
			GW402-205	27.9
			GW403-206	53.7
			GW404-207	105
			GW405-208	45.3
			GW406-209	21
			GW407-210	22
			GW409-212	20.3

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/L	15	GW410-213	21.4
			GW411-214	21.3
			GW415-221	33.9
			GW415A-3280	21.8
			GW415A-781	39.9
			GW423-749	15.8
			GW424-750	18.8
			GW425-751	15.5
			GW4D003-666	29.7
			GW4D003-668	18.9
			GW4D005-670	19.8
			GW501-229	17.8
			GW502-230	20.8
			GW503-231	71.8
			GW505-783	20.8
			GW506-753	30.3
			GW603-234	23.6
			GW605-754	17.6
			GW801-236	99.7
			GW802-237	102
			GW804-239	17.5
			GW805-240	30.1
			GW807-242	29.3
			GW808A-3257	18.4
			GW808A-787	18.8
			GW813-756	25
			GW815-758	19.4
			GW817-759	19.5
			GW818-760	20
			GW820-763	44.1
			GW821-764	16.5
			GW825-769	15.9
			GWA42-254	72
			GWA42-3275	38.6
			GWA43-264	36.1
			GWA43-3259	30.9
			GWA45-256	40.1
			GWA45-3285	42.9
			GWA50-258	15.4
			GWA51-270	22.8
			GWA52-259	43.3
			GWA52-3260	52.6
			GWOW03B-261	17.7
			GWOW04B-3290	46.7

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/L	15	GWOW06B-262	27.9
			GWOW06B-3291	20.7
			GWOW09B-3262	17
			GWOW09B-800	16.3
			GWOW11B-3263	128
			GWOW11B-803	127
			GWOW12B-804	19.8
			GWOW13B-3267	18
			GW-TWP830-3502	25.2
			GW-TWP831-3505	50.6
			GW-TWP833-3511	562
			GW-TWP834-3514	19.8
			GW-TWP835-3517	17
			GW-TWP839-3529	16.2
			GW-TWP842-3538	38.7
			GW-TWP844-3544	27.2
			GW-TWP845-3547	17.3
			GW-TWP847-3553	16.1
			GW-TWP849-3559	56.3
			GW-TWP850-3562	63.9
			GW-TWP851-3565	15.2
			GW-TWP852-3568	33.4
			GW-TWP855-3577	27.3
			GW-TWP856-3580	217 J
			GW-TWP858-3586	40
Beta	pCi/L	50	GW403-206	75.2
			GW404-207	51.3
			GW801-236	95.4
			GW802-237	144
			GWA45-3285	90
			GWBH57-271	93
			GWBH57-3278	127
			GWOW01A-3273	173
			GWOW11B-3263	101
			GWOW11B-803	59.9
			GWOW13A-3295	58.5
			GW-TWP833-3511	211
			GW-TWP842-3538	51.6
			GW-TWP849-3559	109
			GW-TWP850-3562	115
			GW-TWP856-3580	220 J
			GW-TWP858-3586	90.8

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Cesium-137	pCi/L	--	GW201A-773	27.4
			GW404A-779	61.5
			GW4D005-670	4.48
			GW810A-788	33.5
			GW818-760	3.18
			GW825-768	2.66
			GWBH49A-790	28
			GWOW07A-796	4.41
			GWOW07B-3292	2.12
			GWOW11B-803	57.1

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/L	1.76	GW101-744	2.78
			GW201-167	2.86
			GW208-178	1.98
			GW212-185	7.98
			GW213-186	2.19
			GW215A-776	3.57
			GW2C001-664	2.12
			GW308-198	2.33
			GW309-199	2.13
			GW311-201	2.25
			GW312-203	3.9
			GW313-747	10.7
			GW403-206	2.33
			GW411-214	1.94
			GW420-226	2.36
			GW505-783	1.94
			GW602-233	2.77
			GW603-234	3.23
			GW605-754	3.28
			GW801-236	1.92
			GW810-245	2.02
			GW815-758	2.33
			GW820-763	2.6
			GW830-757	12.3
			GWBH57-271	1.77
			GWBH57-3278	2.03
			GW-TWP830-3502	10
			GW-TWP831-3505	4
			GW-TWP832-3508	2.65
			GW-TWP833-3511	1.78
			GW-TWP837-3523	2.63
			GW-TWP839-3529	2.15
			GW-TWP845-3547	2.17
			GW-TWP846-3550	9
			GW-TWP847-3553	1.83
			GW-TWP850-3562	2.69
			GW-TWP851-3565	2.59
			GW-TWP852-3568	5.35
			GW-TWP854-3574	2.2
			GW-TWP856-3580	11.3
			GW-TWP858-3586	4.58
			WO19D-260	3.11

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-228	pCi/L	1.67	GW102-745	47.8
			GW215A-776	20.2
			GW313-747	70.4
			GWBH57-3278	1.98
			GW-TWP830-3502	126
			GW-TWP831-3505	8.59
			GW-TWP845-3547	19.6
			GW-TWP846-3550	48.3
			GW-TWP849-3559	1.91
			GW-TWP853-3571	19.1
			GW-TWP854-3574	12
			GW-TWP856-3580	40.1 J
			GW-TWP858-3586	42.3

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-228	pCi/L	0.25	GW101-744	0.966
			GW201-167	0.451 J
			GW204-173	0.879
			GW205-174	0.806 J
			GW206-175	0.518 J
			GW207-176	1.33
			GW210-183	0.382 J
			GW211-184	0.461 J
			GW212-185	0.624 J
			GW213-186	0.575 J
			GW214-187	0.751 J
			GW215A-776	2.57
			GW216-189	0.862 J
			GW217-190	0.623 J
			GW2A001-660	0.281
			GW2C001-664	0.296
			GW304-194	0.342 J
			GW306-196	0.344 J
			GW307-197	1.51
			GW309-199	0.684 J
			GW312-203	5.33
			GW313-747	2.53
			GW402-205	0.858 J
			GW403-206	0.594 J
			GW404-207	0.701 J
			GW405-208	1.14
			GW406-209	0.405 J
			GW409-212	0.36 J
			GW411-214	3.85
			GW415-221	0.363 J
			GW417-223	0.426 J
			GW420-226	0.484 J
			GW424-750	0.533
			GW4D003-666	0.438
			GW4D003-668	0.522
			GW503-231	0.557 J
			GW506-753	0.299
			GW605-754	0.934
			GW801-236	1.6
			GW802-237	0.343 J
			GW803-238	0.907 J
			GW804-239	2.02
			GW807-242	0.322 J
			GW808-243	0.432 J

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-228	pCi/L	0.25	GW810-245	0.26 J
			GW813-756	0.493
			GW815-758	0.349
			GWA42-254	0.564
			GWBH57-271	0.296 J
			GWBH70-283	0.322
			GW-MW228-3616	0.585
			GW-MW424-3610	0.438
			GWOW10A-288	1.24
			GW-TWP832-3508	1.1
			GW-TWP833-3511	0.915
			GW-TWP834-3514	0.785
			GW-TWP835-3517	0.783
			GW-TWP837-3523	0.584
			GW-TWP839-3529	2.45
			GW-TWP842-3538	3.24
			GW-TWP844-3544	0.36
			GW-TWP847-3553	4.02
			GW-TWP849-3559	0.627
			GW-TWP850-3562	0.881
			GW-TWP851-3565	0.975
			GW-TWP852-3568	9.06
			GW-TWP853-3571	4.43
			GW-TWP854-3574	1.1
			GW-TWP856-3580	4.59 J
			GW-TWP858-3586	1.41
			GW-TWP859-3589	0.931 J

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/L	0.877	GW215A-776	1.34
			GW312-203	4.37
			GW313-747	1.76
			GW411-214	2.15
			GW801-236	0.944 J
			GW804-239	1.52
			GW-MW229-3619	1.31
			GW-TWP830-3502	0.909
			GW-TWP832-3508	0.927
			GW-TWP833-3511	1.21
			GW-TWP834-3514	0.946
			GW-TWP835-3517	1.43
			GW-TWP837-3523	0.967
			GW-TWP839-3529	1.53
			GW-TWP842-3538	2.85
			GW-TWP847-3553	3.71
			GW-TWP850-3562	1.31
			GW-TWP851-3565	0.984
			GW-TWP852-3568	5.3
			GW-TWP853-3571	3.35
			GW-TWP856-3580	3.55 J
			GW-TWP858-3586	0.918

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-232	pCi/L	0.229	GW101-744	0.4
			GW204-173	0.586
			GW205-174	0.419 J
			GW206-175	0.386 J
			GW207-176	0.767
			GW211-184	0.245 J
			GW213-186	0.239 J
			GW214-187	0.626 J
			GW215A-776	0.792
			GW216-189	0.423 J
			GW304-194	0.296 J
			GW307-197	0.841
			GW309-199	0.286 J
			GW312-203	3.37
			GW313-747	1.72
			GW402-205	0.503 J
			GW403-206	0.245 J
			GW404-207	0.518 J
			GW405-208	0.572 J
			GW411-214	2.12
			GW417-223	0.237 J
			GW420-226	0.269 J
			GW424-750	0.341
			GW503-231	0.242 J
			GW506-753	0.337
			GW605-754	0.547
			GW801-236	1.04
			GW803-238	0.43 J
			GW804-239	1.3
			GW808-243	0.324 J
			GW813-756	0.317
			GW-TWP831-3505	0.254
			GW-TWP832-3508	0.893
			GW-TWP833-3511	0.601
			GW-TWP834-3514	0.613
			GW-TWP835-3517	0.731
			GW-TWP837-3523	0.342
			GW-TWP838-3526	0.282
			GW-TWP839-3529	1.15
			GW-TWP842-3538	2.28
			GW-TWP844-3544	0.244
			GW-TWP845-3547	0.246
			GW-TWP847-3553	2.52
			GW-TWP849-3559	0.334

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-232	pCi/L	0.229	GW-TWP850-3562	0.407
			GW-TWP851-3565	0.698
			GW-TWP852-3568	5.6
			GW-TWP853-3571	2.45
			GW-TWP854-3574	0.559
			GW-TWP855-3577	0.492
			GW-TWP856-3580	2.98 J
			GW-TWP858-3586	0.807
			GW-TWP859-3589	0.355 J

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	µg/L	15.6	GW201-167	31.9
			GW201A-3250	17.3
			GW201A-773	25.9
			GW203-172	46.3
			GW203A-3251	41.4
			GW203A-774	40.2
			GW204-173	59.5
			GW205-174	28.6
			GW206-175	37.9
			GW208-178	27.1
			GW209-182	30.3
			GW211-184	31.3
			GW212-185	18.3
			GW213-186	38.8
			GW213A-3281	40.1
			GW213A-775	37.2
			GW215-188	145
			GW215A-3252	51
			GW215A-776	41
			GW217-190	33.2
			GW2A001-660	40.3
			GW2A002-661	27.6
			GW2A003-662	19.2
			GW2B006-663	41
			GW302-192	96.3
			GW302A-3253	125
			GW302A-777	125
			GW303-193	59.1
			GW303A-778	21.4
			GW304-194	56.5
			GW306-196	26.7
			GW307-197	26.1
			GW308-198	17
			GW312-203	35.7
			GW313-747	18.4
			GW401-204	42.6
			GW403-206	22.6
			GW404-207	107
			GW405-208	23
			GW406-209	21.7
			GW407-210	15.8
			GW409-212	23.2
			GW415-221	33.3
			GW415A-3280	16.7

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	µg/L	15.6	GW415A-781	29.8
			GW4D003-666	22.4
			GW4D003-668	24.7
			GW4D005-670	32.8
			GW501-229	24.3
			GW502-230	24
			GW503-231	62.4
			GW505-3279	25.8
			GW505-783	24.4
			GW506-753	35.1
			GW603-234	28.3
			GW803-238	16.4
			GW804-239	32.1
			GW805-240	32.5
			GW808-243	64.1
			GW808A-3257	37.4
			GW808A-787	46.3
			GW813-756	20.6
			GW815-758	23.8
			GW818-760	34.1
			GW825-768	17.5
			GW825-769	18.2
			GWA42-254	80.3
			GWA42-3275	56
			GWA43-264	36.6
			GWA43-3259	47.4
			GWA45-256	44.1
			GWA45-3285	42.8
			GWA50-258	17.6
			GWA51-270	25.6
			GWA52-259	46.2
			GWA52-3260	72
			GWBH49A-3261	16.3
			GW-MW313-3592	31.7
			GW-MW862-3604	17.4
			GWOW03B-261	18.1
			GWOW04B-3290	61.1
			GWOW06B-262	37.2
			GWOW06B-3291	29.2
			GWOW07B-3292	19.1
			GWOW08B-798	15.9
			GWOW09B-3262	21.8
			GWOW09B-800	28.2
			GWOW11B-3263	250

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium	µg/L	15.6	GWOW11B-803	172
			GWOW12B-804	17.9
			GWOW13B-3267	23.5
			GWOW18B-3272	20.5
			GW-TWP830-3502	27.6
			GW-TWP831-3505	82
			GW-TWP833-3511	662
			GW-TWP835-3517	28.4
			GW-TWP837-3523	17
			GW-TWP838-3526	21.1
			GW-TWP839-3529	16
			GW-TWP844-3544	24.1
			GW-TWP846-3550	15.9
			GW-TWP847-3553	21.9
			GW-TWP852-3568	20.8
			GW-TWP855-3577	22.5
			GW-TWP856-3580	29.6

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/L	8.73	GW201-167	10.6
			GW201A-3250	9.31
			GW201A-773	10.4
			GW203-172	22.7
			GW203A-3251	25.6
			GW203A-774	15.5
			GW204-173	24.4
			GW205-174	9.19
			GW206-175	16.3
			GW208-178	16.4
			GW209-182	14
			GW212-185	8.82
			GW213-186	14.3
			GW213A-3281	16.2 J
			GW213A-775	16.3
			GW215-188	48.8
			GW215A-3252	36.2
			GW215A-776	17.4
			GW217-190	14.9
			GW2A001-660	18.2
			GW2A002-661	14
			GW2A003-662	10.2
			GW2B006-663	21.2
			GW302-192	33.3
			GW302A-3253	52.6
			GW302A-777	61
			GW303-193	21.7
			GW304-194	24.1
			GW306-196	10.4
			GW307-197	9.66
			GW308-198	9.28
			GW312-203	13.4
			GW313-747	9.15
			GW401-204	16.7
			GW403-206	10.7
			GW404-207	36
			GW405-208	10.6
			GW415-221	11.4
			GW415A-3280	10.8
			GW415A-781	11.6
			GW4D003-666	9.23
			GW4D003-668	11.2
			GW4D005-670	13.3
			GW501-229	12

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/L	8.73	GW502-230	10.9
			GW503-231	24.7
			GW505-3279	11.8
			GW505-783	11.3
			GW506-753	19.2
			GW603-234	9.83
			GW606-786	16.2
			GW804-239	11.7
			GW805-240	15
			GW808-243	28
			GW808A-3257	15.9
			GW808A-787	18.6
			GW813-756	9.2
			GW815-758	9.93
			GW818-760	16.9
			GW825-768	8.89
			GWA42-254	30.5
			GWA42-3275	25.7
			GWA43-264	14.2
			GWA43-3259	13.1
			GWA45-256	19.9
			GWA45-3285	16.4
			GWA50-3286	10.8
			GWA52-259	23.2
			GWA52-3260	21.9
			GW-MW313-3592	13.3
			GWOW04B-3290	25.5
			GWOW06B-262	16
			GWOW06B-3291	9.38
			GWOW07B-3292	9.62
			GWOW09B-3262	13.5
			GWOW09B-800	14
			GWOW11B-3263	102
			GWOW11B-803	67.2
			GW-TWP830-3502	67
			GW-TWP831-3505	29.2
			GW-TWP833-3511	523
			GW-TWP835-3517	11
			GW-TWP838-3526	8.87
			GW-TWP839-3529	9.85
			GW-TWP844-3544	8.9
			GW-TWP849-3559	10.2
			GW-TWP850-3562	9.15
			GW-TWP853-3571	9.01

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/L	8.73	GW-TWP855-3577	9.97
			GW-TWP856-3580	13 J

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/L	0.715	GW203-172	0.763 J
			GW203A-3251	1.16
			GW204-173	0.744
			GW209-182	0.889
			GW213A-3281	1.72 J
			GW215-188	2.12
			GW215A-3252	4.15
			GW215A-776	0.79
			GW217-190	0.943 J
			GW2A001-660	0.773
			GW2B006-663	0.838
			GW302-192	1.42
			GW302A-3253	2.24
			GW302A-777	1.89
			GW303-193	0.831
			GW401-204	0.95 J
			GW404-207	1.35
			GW415A-3280	0.988
			GW503-231	1.19
			GW505-3279	0.859
			GW606-786	0.755
			GW808-243	0.831 J
			GW808A-3257	1.07
			GW808A-787	0.967
			GWA42-254	1.23
			GWA42-3275	2.1
			GWA45-256	0.831
			GWA45-3285	0.899
			GWA52-259	0.875
			GWA52-3260	2.4
			GWB02W020S-3287	1.24
			GW-MW313-3592	1.12
			GWOW04B-3290	1.56
			GWOW07B-3292	0.947
			GWOW11B-3263	10.5
			GWOW11B-803	2.72
			GWOW15B-3288	0.823
			GW-TWP830-3502	8.18
			GW-TWP831-3505	2.64
			GW-TWP833-3511	33.2
			GW-TWP834-3514	0.826
			GW-TWP835-3517	1.44
			GW-TWP836-3520	0.805
			GW-TWP837-3523	0.857

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/L	0.715	GW-TWP838-3526	1.06
			GW-TWP839-3529	2.31
			GW-TWP842-3538	1.92
			GW-TWP844-3544	1.06
			GW-TWP847-3553	1.13
			GW-TWP849-3559	1.44
			GW-TWP850-3562	0.969
			GW-TWP852-3568	0.752
			GW-TWP855-3577	1.63
			GW-TWP856-3580	3.04 J
			GW-TWP858-3586	1.04

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/L	5.79	GW201-167	8.52
			GW201A-3250	6.48
			GW201A-773	9.05
			GW203-172	18.9
			GW203A-3251	19.2
			GW203A-774	13.2
			GW204-173	17.7
			GW205-174	6.97
			GW206-175	11.6
			GW208-178	11.5
			GW209-182	10.4
			GW212-185	6.17
			GW213-186	10.9
			GW213A-3281	13.3 J
			GW213A-775	12.8
			GW215-188	41.2
			GW215A-3252	28.6
			GW215A-776	14.9
			GW217-190	11.8
			GW2A001-660	12.8
			GW2A002-661	10.6
			GW2B006-663	16.3
			GW302-192	27.3
			GW302A-3253	41.1
			GW302A-777	47
			GW303-193	18.6
			GW303A-3254	6
			GW303A-778	7.02
			GW304-194	17.2
			GW306-196	8.98
			GW307-197	7.49
			GW308-198	7.55
			GW312-203	11.8
			GW313-747	7.4
			GW401-204	14.1
			GW403-206	8.26
			GW404-207	29.2
			GW405-208	8.86
			GW406-209	6.7
			GW409-212	8.28
			GW410-213	6.57
			GW415-221	9.99
			GW415A-3280	9.16
			GW415A-781	10.4

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/L	5.79	GW4D003-666	7.66
			GW4D003-668	8.25
			GW4D005-670	10.3
			GW501-229	9.7
			GW502-230	8.57
			GW503-231	20.3
			GW505-3279	9.12
			GW505-783	8.71
			GW506-753	16.1
			GW603-234	8.19
			GW606-786	13.6
			GW803-238	5.99
			GW804-239	7.87
			GW805-240	11
			GW808-243	19
			GW808A-3257	12.1
			GW808A-787	16.4
			GW813-756	7.14
			GW815-758	8.19
			GW818-760	11.8
			GW820-763	6.02
			GW825-768	6.25
			GW825-769	6.48
			GWA42-254	25.7
			GWA42-3275	23.8
			GWA43-264	11.5
			GWA43-3259	11.9
			GWA45-256	14.8
			GWA45-3285	11.8
			GWA50-3286	8.53
			GWA51-270	7.01
			GWA52-259	17.2
			GWA52-3260	16.5
			GW-MW313-3592	10.6
			GW-MW862-3604	5.95
			GWOW03B-261	6.55
			GWOW04B-3290	24.5
			GWOW06B-262	13
			GWOW06B-3291	7.55
			GWOW07B-3292	7.93
			GWOW08B-798	6.01
			GWOW09B-3262	10.3
			GWOW09B-800	8.88
			GWOW11B-3263	104

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/L	5.79	GWOW11B-803	63.4
			GWOW12B-804	6
			GWOW18B-3272	6.92
			GW-TWP830-3502	72.7
			GW-TWP831-3505	23.7
			GW-TWP832-3508	5.93
			GW-TWP833-3511	543
			GW-TWP835-3517	8.89
			GW-TWP838-3526	6.97
			GW-TWP839-3529	7.02
			GW-TWP842-3538	7.05
			GW-TWP844-3544	7.65
			GW-TWP846-3550	8.75
			GW-TWP847-3553	6.62
			GW-TWP849-3559	7.57
			GW-TWP850-3562	7.84
			GW-TWP852-3568	6.63
			GW-TWP853-3571	9.13
			GW-TWP854-3574	6.92
			GW-TWP855-3577	8.29
			GW-TWP856-3580	13.6 J
			GW-TWP858-3586	6.48
Semivolatile Organics				

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
bis(2-Ethylhexyl)phthalate	µg/L	--	GW213A-3281	41.4
			GW411A-3255	24
			GW415A-3280	16.7
			GW505-783	6.4 J
			GW607-755	10.8
			GW816-3282	3.28 J
			GW822-765	276 D
			GWA45-3285	9.65 J
			GWA50-3286	2.87 J
			GWA51-270	9.4 J
			GWBH50-267	37.6
			GWBH50-3283	14.5
			GWBH57-3278	2.84 J
			GW-MW228-3616	3.28 J
			GW-MW229-3619	3.14 J
			GW-MW313-3592	3.07 J
			GW-MW424-3610	3.61 J
			GW-MW862-3604	4.43 J
			GWOW01A-3273	71
			GWOW09B-3262	289
			GWOW10B-3277	2.49 J
			GWOW10B-801	14.2
			GWOW17B-3289	1.91 J
Di-n-butylphthalate	µg/L	--	GW215-188	50.7
			GW301-191	14.9
			GW303-193	69
			GW304-194	38.4
			GW306-196	41.1
			GW307-197	89.4
			GW310-200	30.7
			GW417-223	30.1
			GW804-239	22.5
			GW805-240	21.4
			GW-TWP858-3586	2.72 J

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Phenol	μg/L	--	GW203A-3251	12
			GW215A-3252	7.15 J
			GW302A-3253	11.3
			GW303A-3254	12.3
			GW505-3279	0.306 J
			GW603A-3256	3.91 J
			GW808A-3257	2.15 J
			GW816-789	6.1 J
			GWA42-3275	8.34 J
			GWA45-3285	4.08 J
			GWBH57-3278	5.18 J
			GWOW01A-3273	8.14 J
			GWOW02B-3264	13.4
			GWOW05B-3274	6.38 J
			GWOW09B-3262	0.3 J
			GWOW10B-3277	15.8
			GWOW10B-801	57.9
			GWOW11B-3263	0.291 J
			GWOW18A-3271	42.7
			GWOW18B-3272	11.4
Volatile Organics				
1,2-Dichloroethene	μg/L	--	C5-SO-GW-D800	2
2-Butanone	μg/L	4.49	GW203A-3251	64
			GW415A-3280	19.5
			GW505-783	8.4
			GW810A-788	4.9 J
			GWBH15-3276	4.95 J
			GWBH49A-3261	6.81
			GWBH57-3278	22.1
			GW-MW228-3616	13.6
			GW-MW424-3610	25
			GW-MW862-3604	7.9
			GW-MW863-3607	4.92 J
			GWOW01A-3273	68.6
			GWOW10B-3277	19.1
			GWOW11A-3266	12.5
			GWOW18A-3271	9.67
			GW-TWP834-3514	14.4
Acetone	μg/L	30.5	GW415A-3280	157
			GWOW01A-3273	101

* Data qualifier included with concentration value

Table 4-123
Exposure Unit 17
Groundwater SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Methylene chloride	µg/L	--	GW201-167	27
			GW203-172	18
			GW213-186	25.8
			GW214-187	20.5
			GW415-221	1680 JB
			GW415A-3280	2.59 J
			GW-MW313-3592	1.93 J
			GW-TWP830-3502	1.92 J
			GW-TWP831-3505	2.09 J
			GW-TWP832-3508	1.94 J
			GW-TWP833-3511	2.08 J
			GW-TWP856-3580	2.13 J
			GW-TWP858-3586	1.93 J
Tetrachloroethene	µg/L	--	GW210-183	0.52 J
			GW213A-775	0.46 J
			GW303A-3254	0.597 BJ
			GW415-221	14800 D
			GW415A-3280	92000 B
			GW415A-781	103000 D
			GW415A-782	78900 D
			GW4D003-666	69.3
			GW4D003-668	46.1
			GW810-245	1.7
			GW-MW424-3610	11.2

* Data qualifier included with concentration value

Table 4-124
Exposure Unit 16
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals, Dissolved					
Aluminum, Dissolved	µg/L	15	9.49 B	654	4
Antimony, Dissolved	µg/L	15	0.209 B	2.84 B	4
Arsenic, Dissolved	µg/L	15	0.428 B	4.25	15
Barium, Dissolved	µg/L	15	8.5	117	15
Beryllium, Dissolved	µg/L	15	0.299 B	0.299 B	1
Boron, Dissolved	µg/L	15	44.2 B	5360	15
Cadmium, Dissolved	µg/L	15	0.289 B	3.41 B	4
Calcium, Dissolved	µg/L	15	15700	146000	15
Chromium, Dissolved	µg/L	15	0.615 B	109	5
Cobalt, Dissolved	µg/L	15	0.433 B	1.12 B	3
Copper, Dissolved	µg/L	15	0.749 B	55.3	13
Iron, Dissolved	µg/L	15	6.2 B	18100	12
Lead, Dissolved	µg/L	15	0.045 B	16.8	10
Lithium, Dissolved	µg/L	15	2.93 B	14.6	15
Magnesium, Dissolved	µg/L	15	1850	57300	15
Manganese, Dissolved	µg/L	15	0.491 B	1080	15
Mercury, Dissolved	µg/L	15	0.064 B	0.291	4
Nickel, Dissolved	µg/L	15	1.29 B	28.3	9
Potassium, Dissolved	µg/L	15	1530	60900	15
Selenium, Dissolved	µg/L	15	0.589 BN	3.26 N	12
Silver, Dissolved	µg/L	15	0.054 B	0.312 B	11
Sodium, Dissolved	µg/L	15	1490	30800	15
Thallium, Dissolved	µg/L	15	0.008 B	0.791	8
Vanadium, Dissolved	µg/L	15	0.743 B	10.4	12
Zinc, Dissolved	µg/L	15	2.33 B	663	7
Metals, Total					
Aluminum	µg/L	21	18.3 B	10600	20
Antimony	µg/L	21	0.406 B	50.3	14
Arsenic	µg/L	21	0.855 BN	30.9	14
Barium	µg/L	21	12.1	1400	21
Beryllium	µg/L	21	--	--	0
Boron	µg/L	21	46.2 B	20400 E	21
Cadmium	µg/L	21	0.917 B	142	5
Calcium	µg/L	21	15500	565000	21
Chromium	µg/L	21	0.567 B	841	10
Cobalt	µg/L	21	0.282 B	619	4
Copper	µg/L	21	1.16 B	5930	18
Iron	µg/L	21	17.7 B	43500	21
Lead	µg/L	21	0.046 BN	4510	13
Lithium	µg/L	21	2.96 B	1060	20
Magnesium	µg/L	21	1950	204000	21
Manganese	µg/L	21	5.94 B	2650	21
Mercury	µg/L	21	0.597	33.4	2

* Data qualifier included with concentration value

Table 4-124
Exposure Unit 16
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Nickel	µg/L	21	0.914 B	18500	7
Potassium	µg/L	21	1410	280000	21
Selenium	µg/L	21	0.658 BN	5.7	12
Silver	µg/L	21	0.011 B	7.06	7
Sodium	µg/L	21	1310	127000	21
Thallium	µg/L	21	0.083 B	0.84 B	8
Vanadium	µg/L	21	0.826 B	162	12
Zinc	µg/L	21	1.46 B	14300 E	13
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/L	6	--	--	0
2,4,6-Trinitrotoluene	µg/L	6	--	--	0
2,4-Dinitrotoluene	µg/L	31	--	--	0
2,6-Dinitrotoluene	µg/L	31	--	--	0
2-Amino-4,6-dinitrotoluene	µg/L	6	--	--	0
2-Nitrotoluene	µg/L	6	--	--	0
3-Dinitrobenzene	µg/L	6	--	--	0
3-Nitrotoluene	µg/L	6	--	--	0
4-Amino-2,6-dinitrotoluene	µg/L	6	--	--	0
4-Nitrotoluene	µg/L	6	--	--	0
HMX	µg/L	6	--	--	0
Nitrobenzene	µg/L	31	--	--	0
RDX	µg/L	6	--	--	0
Tetryl	µg/L	6	--	--	0
PAHs					
Acenaphthene	µg/L	31	5.4 J	5.4 J	1
Acenaphthylene	µg/L	31	1 J	1 J	1
Anthracene	µg/L	31	0.14 J	14.3	2
Benzo(a)anthracene	µg/L	31	0.73 J	10.2	2
Benzo(a)pyrene	µg/L	31	36.8	36.8	1
Benzo(b)fluoranthene	µg/L	31	2.6	39.4	2
Benzo(g,h,i)perylene	µg/L	31	--	--	0
Benzo(k)fluoranthene	µg/L	31	0.66 J	14.6	2
Chrysene	µg/L	31	0.72 J	12.7	2
Dibenzo(a,h)anthracene	µg/L	31	--	--	0
Fluoranthene	µg/L	31	1.2	71.8	2
Fluorene	µg/L	31	13.6	13.6	1
Indeno(1,2,3-cd)pyrene	µg/L	31	--	--	0
Naphthalene	µg/L	31	0.244 J	0.244 J	1
Phenanthrene	µg/L	31	0.02	63.3	3
Pyrene	µg/L	31	0.3 J	47.4	2
PCBs					
Aroclor-1016	µg/L	14	--	--	0
Aroclor-1221	µg/L	14	--	--	0
Aroclor-1232	µg/L	14	--	--	0

* Data qualifier included with concentration value

Table 4-124
Exposure Unit 16
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Aroclor-1242	µg/L	14	--	--	0
Aroclor-1248	µg/L	14	--	--	0
Aroclor-1254	µg/L	14	0.57	855	2
Aroclor-1260	µg/L	14	0.17	0.17	1
Pesticides					
4,4'-DDD	µg/L	10	--	--	0
4,4'-DDE	µg/L	10	0.0386 J	0.0386 J	1
4,4'-DDT	µg/L	10	0.0374 J	0.0507	2
Aldrin	µg/L	10	--	--	0
alpha-BHC	µg/L	10	0.007 J	0.007 J	1
alpha-Chlordane	µg/L	9	--	--	0
beta-BHC	µg/L	10	--	--	0
delta-BHC	µg/L	10	--	--	0
Dieldrin	µg/L	10	--	--	0
Endosulfan I	µg/L	10	--	--	0
Endosulfan II	µg/L	10	--	--	0
Endosulfan sulfate	µg/L	10	--	--	0
Endrin	µg/L	10	--	--	0
Endrin aldehyde	µg/L	10	--	--	0
Endrin ketone	µg/L	9	--	--	0
gamma-BHC (Lindane)	µg/L	10	0.0076 J	0.0076 J	1
gamma-Chlordane	µg/L	9	--	--	0
Heptachlor	µg/L	10	--	--	0
Heptachlor epoxide	µg/L	10	0.0081 J	0.0081 J	1
Methoxychlor	µg/L	10	--	--	0
Toxaphene	µg/L	9	--	--	0
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	9	--	--	0
Alpha, Dissolved	pCi/L	9	10.5	676	6
Americium-241, Dissolved	pCi/L	9	--	--	0
Beta, Dissolved	pCi/L	9	2.2	331	9
Cesium-137, Dissolved	pCi/L	9	--	--	0
Cobalt-60, Dissolved	pCi/L	9	--	--	0
Plutonium-238, Dissolved	pCi/L	3	--	--	0
Protactinium-231, Dissolved	pCi/L	9	--	--	0
Radium-226, Dissolved	pCi/L	9	0.257	1.58	6
Radium-228, Dissolved	pCi/L	9	0.865	1.38	3
Strontium-90, Dissolved	pCi/L	3	--	--	0
Thorium-228, Dissolved	pCi/L	9	--	--	0
Thorium-230, Dissolved	pCi/L	9	0.359	0.744	7
Thorium-232, Dissolved	pCi/L	9	0.0497	0.134	2
Total Activity, Dissolved	pCi/mL	9	2.56	3.82	4
Total Uranium, Dissolved	µg/L	9	0.428	1210	9
Uranium-234, Dissolved	pCi/L	9	0.382	316	8

* Data qualifier included with concentration value

Table 4-124
Exposure Unit 16
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Uranium-235, Dissolved	pCi/L	9	0.309	35.1	6
Uranium-238, Dissolved	pCi/L	9	0.152	327	8
Radionuclides, Total					
Actinium-227	9	1	--	--	0
	pCi/L	35	--	--	0
Alpha	pCi/L	34	1.07	701	30
Americium-241	pCi/L	36	--	--	0
Beta	pCi/L	34	2.79	394	34
Cesium-137	pCi/L	36	2.02	2.66	2
Cobalt-60	pCi/L	36	--	--	0
Protactinium-231	pCi/L	36	--	--	0
Radium-226	pCi/L	36	0.364	32.2	26
Radium-228	pCi/L	36	--	--	0
Thorium-228	pCi/L	36	0.329	0.565	3
Thorium-230	pCi/L	36	0.0405	4.92	28
Thorium-232	pCi/L	36	0.013	0.673	4
Total Uranium	μg/L	9	0.512	1300	9
Uranium-234	pCi/L	36	0.185	629	35
Uranium-235	pCi/L	36	0.0721	33	29
Uranium-238	pCi/L	36	0.123	627	34
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/L	31	--	--	0
1,2-Dichlorobenzene	μg/L	31	--	--	0
1,3-Dichlorobenzene	μg/L	31	--	--	0
1,4-Dichlorobenzene	μg/L	31	--	--	0
2,4,5-Trichlorophenol	μg/L	31	--	--	0
2,4,6-Trichlorophenol	μg/L	31	--	--	0
2,4-Dichlorophenol	μg/L	31	--	--	0
2,4-Dimethylphenol	μg/L	31	--	--	0
2,4-Dinitrophenol	μg/L	31	--	--	0
2-Chloronaphthalene	μg/L	31	--	--	0
2-Chlorophenol	μg/L	31	--	--	0
2-Methyl-4,6-dinitrophenol	μg/L	31	--	--	0
2-Methylnaphthalene	μg/L	26	--	--	0
2-Nitroaniline	μg/L	31	--	--	0
2-Nitrophenol	μg/L	31	--	--	0
3,3'-Dichlorobenzidine	μg/L	31	--	--	0
3-Nitroaniline	μg/L	31	--	--	0
4-Bromophenylphenylether	μg/L	31	--	--	0
4-Chloro-3-methylphenol	μg/L	31	--	--	0
4-Chloroaniline	μg/L	31	--	--	0
4-Chlorophenylphenylether	μg/L	31	--	--	0
4-Nitroaniline	μg/L	31	--	--	0
4-Nitrophenol	μg/L	31	--	--	0

* Data qualifier included with concentration value

Table 4-124
Exposure Unit 16
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethoxy)methane	µg/L	31	--	--	0
bis(2-Chloroethyl)ether	µg/L	31	--	--	0
bis(2-Chloroisopropyl)ether	µg/L	31	--	--	0
bis(2-Ethylhexyl)phthalate	µg/L	31	0.21 J	181 J	6
Butylbenzylphthalate	µg/L	31	483 J	483 J	1
Carbazole	µg/L	31	--	--	0
Dibenzofuran	µg/L	31	--	--	0
Diethylphthalate	µg/L	31	--	--	0
Dimethylphthalate	µg/L	31	--	--	0
Di-n-butylphthalate	µg/L	31	2.3 J	2.5 J	2
Di-n-octylphthalate	µg/L	31	--	--	0
Diphenylamine	µg/L	22	--	--	0
Hexachlorobenzene	µg/L	31	--	--	0
Hexachlorobutadiene	µg/L	31	--	--	0
Hexachlorocyclopentadiene	µg/L	31	--	--	0
Hexachloroethane	µg/L	31	--	--	0
Isophorone	µg/L	31	--	--	0
m,p-Cresols	µg/L	26	10.4	10.4	1
N-Nitroso-di-n-propylamine	µg/L	31	--	--	0
N-Nitrosodiphenylamine	µg/L	9	--	--	0
o-Cresol	µg/L	31	--	--	0
p-Cresol	µg/L	5	--	--	0
Pentachlorophenol	µg/L	31	--	--	0
Phenol	µg/L	31	12.6	12.6	1
Volatile Organics					
1,1,1-Trichloroethane	µg/L	24	--	--	0
1,1,2,2-Tetrachloroethane	µg/L	24	--	--	0
1,1,2-Trichloroethane	µg/L	24	--	--	0
1,1-Dichloroethane	µg/L	24	--	--	0
1,1-Dichloroethene	µg/L	24	--	--	0
1,2-Dichloroethane	µg/L	24	--	--	0
1,2-Dichloroethene	µg/L	5	--	--	0
1,2-Dichloropropane	µg/L	24	--	--	0
2-Butanone	µg/L	19	2 J	36.6	4
2-Hexanone	µg/L	24	1.64 J	1.64	1
4-Methyl-2-pentanone	µg/L	19	--	--	0
Acetone	µg/L	23	0.9 J	268	8
Benzene	µg/L	24	0.16 J	0.16 J	1
Bromodichloromethane	µg/L	24	--	--	0
Bromoform	µg/L	24	--	--	0
Bromomethane	µg/L	24	--	--	0
Carbon disulfide	µg/L	24	1.3 J	1.3 J	1
Carbon tetrachloride	µg/L	24	--	--	0
Chlorobenzene	µg/L	24	--	--	0

* Data qualifier included with concentration value

Table 4-124
Exposure Unit 16
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chloroethane	µg/L	24	--	--	0
Chloroform	µg/L	24	--	--	0
Chloromethane	µg/L	24	0.9 J	0.9 J	1
cis-1,2-Dichloroethene	µg/L	19	8	123 D	3
cis-1,3-Dichloropropene	µg/L	24	--	--	0
Dibromochloromethane	µg/L	24	--	--	0
Ethylbenzene	µg/L	24	--	--	0
Methylene chloride	µg/L	24	0.65 J	0.65 J	1
o-Xylene	µg/L	3	--	--	0
Styrene	µg/L	24	--	--	0
Tetrachloroethene	µg/L	24	6.77	225 D	3
Toluene	µg/L	24	0.26 J	3 J	7
trans-1,2-Dichloroethene	µg/L	19	--	--	0
trans-1,3-Dichloropropene	µg/L	24	--	--	0
Trichloroethene	µg/L	24	2.6	80.2 D	2
Vinyl chloride	µg/L	24	2.2	2.2	1
Xylenes (total)	µg/L	21	0.283 J	0.283 J	1

* Data qualifier included with concentration value

Table 4-125
Exposure Unit 16
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals, Dissolved				
Aluminum, Dissolved	μg/L	31.2	MH01W-2000	654
			PIPE28W-2056	172
Antimony, Dissolved	μg/L	0.648	DRAIN05-W-3708	2.58
			MH16W-2024	2.84 B
Arsenic, Dissolved	μg/L	3.76	DRAIN05-W-3708	4.25
			PIPE28W-2056	4.08
Beryllium, Dissolved	μg/L	--	DRAIN02-W-3702	0.299 B
Boron, Dissolved	μg/L	239	DRAIN01-W-3700	308
			DRAIN05-W-3708	5360
			MH01W-2000	686
			MH05W-2008	264
Cadmium, Dissolved	μg/L	1.19	DRAIN05-W-3708	3.41 B
Chromium, Dissolved	μg/L	6.69	DRAIN05-W-3708	7.22
			MH01W-2000	59.3
			MH03W-2004	36.2
			MH04W-2006	109
Copper, Dissolved	μg/L	8.39	DRAIN02-W-3702	17
			DRAIN05-W-3708	55.3
			MH01W-2000	53.4
Iron, Dissolved	μg/L	1360	MH01W-2000	3040
			PIPE28W-2056	18100
Lead, Dissolved	μg/L	0.919	DRAIN05-W-3708	5.57
			MH12W-2019	16.8
			PIPE28W-2056	11.7
Magnesium, Dissolved	μg/L	30300	MH01W-2000	31900
			MH05W-2008	57300
			MH08W-2013	38500
			MH09W-2016	33800
			MH26W-2032	43800
Manganese, Dissolved	μg/L	821	MH01W-2000	1080
			PIPE74W-2067	884
Mercury, Dissolved	μg/L	--	DRAIN05-W-3708	0.291
			MH04W-2006	0.064 B
			MH16W-2024	0.069 B
			MH26W-2032	0.071 B
Nickel, Dissolved	μg/L	1.81	DRAIN01-W-3700	3.96 B
			DRAIN05-W-3708	28.3
			MH01W-2000	11.8
			MH02W-2001	1.91 B
			MH16W-2024	2.09 B
			PIPE28W-2056	4.45 B

* Data qualifier included with concentration value

Table 4-125
Exposure Unit 16
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Potassium, Dissolved	μg/L	7700	DRAIN01-W-3700	18700
			DRAIN05-W-3708	60900
			PIPE28W-2056	19800
			PIPE74W-2067	11100
Selenium, Dissolved	μg/L	2.41	MH12W-2019	2.66 BN
			PIPE28W-2056	3.26 N
Silver, Dissolved	μg/L	0.011	DRAIN05-W-3708	0.054 B
			MH01W-2000	0.3 B
			MH03W-2004	0.173 B
			MH04W-2006	0.299 B
			MH05W-2008	0.141 B
			MH08W-2013	0.302 B
			MH09W-2016	0.146 B
			MH12W-2019	0.312 B
			MH16W-2024	0.3 B
			MH26W-2032	0.301 B
			PIPE28W-2056	0.292 B
Thallium, Dissolved	μg/L	0.24	DRAIN01-W-3700	0.384 B
			MH09W-2016	0.791
			PIPE74W-2067	0.297 J
Vanadium, Dissolved	μg/L	1.26	DRAIN02-W-3702	2.54 B
			MH01W-2000	10.4
			MH03W-2004	1.3 B
			MH04W-2006	2.75 B
			MH16W-2024	1.58 B
			PIPE28W-2056	1.9 B
Zinc, Dissolved	μg/L	54.5	DRAIN05-W-3708	663
			MH01W-2000	153
Metals, Total				
Aluminum	μg/L	5030	DRAIN04-W-3706	10600
Antimony	μg/L	2.33	C7-NFSS-WW-SS8	3.3 J
			C7-NFSS-WW-SS9	3.1 J
			DRAIN04-W-3706	50.3
			DRAIN05-W-3708	2.71
			MH03W-2004	4.4 B
			MH04W-2006	7.25 B
			MH05W-2008	2.94 B
			MH09W-2016	5.35 B
			MH26W-2032	3.41 B
Arsenic	μg/L	6.33	DRAIN04-W-3706	30.9 B
			PIPE28W-2056	10.5
Barium	μg/L	117	DRAIN04-W-3706	1400

* Data qualifier included with concentration value

Table 4-125
Exposure Unit 16
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Boron	μg/L	244	DRAIN01-W-3700	280 E
			DRAIN04-W-3706	20400 E
			DRAIN05-W-3708	4680 E
			MH01W-2000	731
			MH05W-2008	264
Cadmium	μg/L	--	DRAIN01-W-3700	2.31 B
			DRAIN02-W-3702	0.981 B
			DRAIN04-W-3706	142
			DRAIN05-W-3708	5.51
			PIPE28W-2056	0.917 B
Calcium	μg/L	141000	DRAIN04-W-3706	565000
			MH03W-2004	146000
			MH05W-2008	148000
Chromium	μg/L	7.52	DRAIN04-W-3706	841
			DRAIN05-W-3708	11.1
			MH01W-2000	37
			MH03W-2004	37.7
			MH04W-2006	157
Cobalt	μg/L	1.08	DRAIN04-W-3706	619
			DRAIN05-W-3708	1.83 B
			PIPE28W-2056	2.45 B
Copper	μg/L	15	DRAIN02-W-3702	15.6
			DRAIN04-W-3706	5930
			DRAIN05-W-3708	66.2
			MH01W-2000	30.5
			PIPE28W-2056	17.7
Iron	μg/L	4740	DRAIN04-W-3706	43500
			PIPE28W-2056	38100
Lead	μg/L	11.1	DRAIN04-W-3706	4510
			DRAIN05-W-3708	21.7
			PIPE28W-2056	86.3 E
Lithium	μg/L	13.2	DRAIN04-W-3706	1060
			DRAIN05-W-3708	14.6
			MH09W-2016	15.9 EN
Magnesium	μg/L	30200	DRAIN04-W-3706	204000
			MH01W-2000	33300
			MH03W-2004	35300
			MH05W-2008	58300
			MH08W-2013	40100
			MH09W-2016	34400
			MH26W-2032	46300
Manganese	μg/L	951	DRAIN04-W-3706	2650

* Data qualifier included with concentration value

Table 4-125
Exposure Unit 16
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Mercury	µg/L	--	DRAIN04-W-3706	33.4
			DRAIN05-W-3708	0.597
Nickel	µg/L	7.74	DRAIN04-W-3706	18500
			DRAIN05-W-3708	26.8
			MH01W-2000	7.86
			PIPE28W-2056	11.3
Potassium	µg/L	9540	DRAIN01-W-3700	19000
			DRAIN04-W-3706	280000
			DRAIN05-W-3708	67900
			PIPE28W-2056	18700
			PIPE74W-2067	10200
Selenium	µg/L	4.24	C7-NFSS-WW-SS9	5.7
Silver	µg/L	0.03	C7-NFSS-WW-ST9	1.3 J
			DRAIN01-W-3700	0.038 B
			DRAIN04-W-3706	7.06 B
			DRAIN05-W-3708	0.099 B
			MH01W-2000	0.14 B
			PIPE28W-2056	0.45 B
Thallium	µg/L	0.026	DRAIN01-W-3700	0.38 B
			DRAIN02-W-3702	0.203 B
			DRAIN04-W-3706	0.84 B
			DRAIN05-W-3708	0.083 B
			MH02W-2001	0.753
			MH03W-2004	0.332 BN
			MH16W-2024	0.46 BN
			PIPE74W-2067	0.65
Vanadium	µg/L	8.52	DRAIN04-W-3706	162
			MH01W-2000	9.73
Zinc	µg/L	70.5	DRAIN04-W-3706	14300 E
			DRAIN05-W-3708	884 E
			MH01W-2000	79
			PIPE28W-2056	87.4 E
PAHs				
Anthracene	µg/L	--	MH35W-2038	0.14 J
			PIPE28W-2056	14.3
Benzo(a)anthracene	µg/L	0.108	MH35W-2038	0.73 J
			PIPE28W-2056	10.2
Benzo(b)fluoranthene	µg/L	--	MH35W-2038	2.6
			PIPE28W-2056	39.4
Benzo(k)fluoranthene	µg/L	--	MH35W-2038	0.66 J
			PIPE28W-2056	14.6
Chrysene	µg/L	0.151	MH35W-2038	0.72 J
			PIPE28W-2056	12.7

* Data qualifier included with concentration value

Table 4-125
Exposure Unit 16
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Fluoranthene	μg/L	0.522	MH35W-2038	1.2
			PIPE28W-2056	71.8
Phenanthrene	μg/L	0.223	MH35W-2038	0.69 J
			PIPE28W-2056	63.3
Pyrene	μg/L	0.302	PIPE28W-2056	47.4
PCBs				
Aroclor-1254	μg/L	--	DRAIN04-W-3706	855
			DRAIN05-W-3708	0.57
Aroclor-1260	μg/L	--	DRAIN05-W-3708	0.17
Pesticides				
4,4'-DDT	μg/L	0.0318	DRAIN02-W-3702	0.0374 J
			DRAIN05-W-3708	0.0507
alpha-BHC	μg/L	--	C7-NFSS-WW-ST9	0.007 J
gamma-BHC (Lindane)	μg/L	--	C7-NFSS-WW-SS8	0.0076 J
Heptachlor epoxide	μg/L	--	C7-NFSS-WW-ST6	0.0081 J
Radionuclides, Dissolved				
Alpha, Dissolved	pCi/L	16.7	MH06W-3681	676
			MH08W-3685	114
			MH45W-3687	47.9
			PIPE74W-3693	31.3
Beta, Dissolved	pCi/L	9.87	DRAIN01-W-3700	14.8
			DRAIN05-W-3708	48.8
			MH06W-3681	331
			MH08W-3685	59.6
			MH43W-3689	13.4
			MH45W-3687	27
			PIPE74W-3693	24
Radium-226, Dissolved	pCi/L	1.37	MH45W-3687	1.58
Radium-228, Dissolved	pCi/L	1.09	MH06W-3681	1.38
Thorium-230, Dissolved	pCi/L	0.289	DRAIN01-W-3700	0.688
			MH06W-3681	0.359
			MH07W-3683	0.489
			MH08W-3685	0.384
			MH43W-3689	0.57
			MH45W-3687	0.744
			PIPE74W-3693	0.552
Thorium-232, Dissolved	pCi/L	--	DRAIN01-W-3700	0.134
			MH07W-3683	0.0497
Total Activity, Dissolved	pCi/mL	--	MH06W-3681	3.82
			MH07W-3683	2.73
			MH08W-3685	2.56
			PIPE74W-3693	2.9

* Data qualifier included with concentration value

Table 4-125
Exposure Unit 16
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Total Uranium, Dissolved	µg/L	12.4	MH06W-3681	1210
			MH07W-3683	27.1
			MH08W-3685	161
			MH43W-3689	19.4
			MH45W-3687	65.1
			PIPE74W-3693	42.6
Uranium-234, Dissolved	pCi/L	6.07	MH06W-3681	316
			MH07W-3683	8.77
			MH08W-3685	62.4
			MH43W-3689	6.83
			MH45W-3687	20.2
			PIPE74W-3693	13.2
Uranium-235, Dissolved	pCi/L	0.634	MH06W-3681	35.1
			MH07W-3683	0.848
			MH08W-3685	4.5
			MH45W-3687	1.45
			PIPE74W-3693	1.82
Uranium-238, Dissolved	pCi/L	5.23	MH06W-3681	327
			MH07W-3683	8.36
			MH08W-3685	65.4
			MH43W-3689	5.78
			MH45W-3687	21.1
			PIPE74W-3693	14.7
Radionuclides, Total				
Alpha	pCi/L	12.2	MH02W-2001	21.5
			MH03W-2004	18.6
			MH05W-2008	21.8
			MH06W-2009	701
			MH06W-3681	362
			MH07W-2011	14.1
			MH07W-3683	17.1
			MH08W-2013	186
			MH08W-3685	67
			MH09W-2016	13
			MH12W-2019	15.6
			MH31W-2035	47.1
			MH35W-2038	51.7
			MH45W-2049	18.5
			MH45W-3687	40.9
			PIPE74W-3693	26.3

* Data qualifier included with concentration value

Table 4-125
Exposure Unit 16
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/L	12.3	DRAIN01-W-3700	18.3
			DRAIN05-W-3708	74.3
			MH02W-2001	23.9
			MH03W-2004	13.5
			MH05W-2008	12.6
			MH06W-2009	394
			MH06W-3681	238
			MH07W-3683	13.2
			MH08W-2013	136
			MH08W-3685	32
			MH31W-2035	23.8
			MH35W-2038	25.5
			MH43W-3689	14.8
			MH45W-2049	15
			MH45W-3687	23.7
			PIPE28W-2056	17.8
			PIPE74W-2067	20.4 J
			PIPE74W-3693	20.8
			SUMP35W-2077	20.2
Cesium-137	pCi/L	--	MH31W-2035	2.02
			MH45W-3687	2.66
Radium-226	pCi/L	0.487	DRAIN01-W-3700	1.34
			DRAIN02-W-3702	1.33
			DRAIN03-W-3704	4.29
			DRAIN05-W-3708	0.911
			DRAIN06-W-3710	1.13
			MH01W-2000	0.497
			MH02W-2001	0.684
			MH04W-2006	0.522
			MH06W-2009	0.921
			MH08W-2013	0.518
			MH10W-2018	0.729
			MH12W-2019	0.762
			MH15W-2023	0.625
			MH31W-2035	0.675
			MH41W-2041	0.831
			MH42W-2043	0.685
			MH43W-2045	0.514
			MH45W-3687	32.2
			PIPE74W-2067	0.815
Thorium-228	pCi/L	0.41	DRAIN06-W-3710	0.559
			MH35W-2038	0.565

* Data qualifier included with concentration value

Table 4-125
Exposure Unit 16
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thorium-230	pCi/L	0.606	DRAIN03-W-3704	4.92
			DRAIN06-W-3710	2.76
			MH02W-2001	1.33
			MH35W-2038	1.44
Thorium-232	pCi/L	--	DRAIN03-W-3704	0.673
			MH02W-2001	0.286
			MH35W-2038	0.175
			MH42W-2043	0.013
Total Uranium	μg/L	12.5	MH06W-3681	1300
			MH07W-3683	21.6
			MH08W-3685	142
			MH43W-3689	15
			MH45W-3687	61.6
			PIPE74W-3693	35.9
Uranium-234	pCi/L	5.78	DRAIN03-W-3704	58.7 J
			DRAIN06-W-3710	13
			MH01W-2000	6.99
			MH03W-2004	13.2
			MH05W-2008	12.8
			MH06W-2009	629
			MH06W-3681	370
			MH07W-2011	6.43
			MH07W-3683	9.96
			MH08W-2013	128
			MH08W-3685	47.2
			MH09W-2016	7.3
			MH10W-2018	6.27
			MH12W-2019	6.78
			MH31W-2035	18.9
			MH35W-2038	13.2
			MH43W-3689	6.55
			MH45W-2049	6.56
			MH45W-3687	23.8
			PIPE74W-3693	13.7

* Data qualifier included with concentration value

Table 4-125
Exposure Unit 16
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/L	0.529	DRAIN06-W-3710	1.77
			MH05W-2008	0.628
			MH06W-2009	30.9
			MH06W-3681	33
			MH07W-3683	0.792
			MH08W-2013	5.92
			MH08W-3685	5.47
			MH31W-2035	1.4
			MH35W-2038	0.836
			MH43W-3689	0.993
			MH45W-3687	1.37
			PIPE74W-3693	3.28
Uranium-238	pCi/L	4.81	DRAIN03-W-3704	63.5 J
			DRAIN06-W-3710	14
			MH01W-2000	5.88
			MH03W-2004	9.75
			MH05W-2008	11
			MH06W-2009	627
			MH06W-3681	388
			MH07W-2011	6.23
			MH07W-3683	8.73
			MH08W-2013	129
			MH08W-3685	48
			MH09W-2016	7.16
			MH10W-2018	5.06
			MH12W-2019	6.22
			MH31W-2035	17.8
			MH35W-2038	12.8
			MH43W-3689	6.73
			MH45W-2049	6.15
			MH45W-3687	24.8
			PIPE74W-3693	12.5
Semivolatile Organics				
bis(2-Ethylhexyl)phthalate	μg/L	--	DRAIN04-W-3706	181 J
			MH16W-2024	0.34 J
			MH35W-2038	4.3
			MH42W-2043	0.21 J
			MH46W-2051	2.9
			PIPE28W-2056	1.1 JB
Di-n-butylphthalate	μg/L	--	MH45W-2049	2.3 J
			MH46W-2051	2.5 J
Volatile Organics				
2-Butanone	μg/L	15.8	DRAIN06-W-3710	36.6

* Data qualifier included with concentration value

Table 4-125
Exposure Unit 16
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Acetone	µg/L	16.4	DRAIN03-W-3704	76.2 J
			DRAIN04-W-3706	268
			DRAIN06-W-3710	38.9
cis-1,2-Dichloroethene	µg/L	--	MH31W-2035	8
			MH32W-2036	123 D
			MH35W-2038	8.2
Tetrachloroethene	µg/L	0.554	MH32W-2036	225 D
			MH35W-2038	13.1
			PIPE74W-3693	6.77
Toluene	µg/L	--	C7-NFSS-WW-ST9	3 J
			MH09W-2016	0.34 J
			MH35W-2038	0.32 J
			MH43W-2045	0.26 J
			PIPE28W-2056	1.2
			PIPE74W-2067	1.2
			SUMP35W-2077	0.39 J
Trichloroethene	µg/L	--	MH32W-2036	80.2 D
			MH35W-2038	2.6

* Data qualifier included with concentration value

Table 4-126
Summary of Drain Oil Sample Results
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Drain04-W-3719 Concentration*	Drain03-W-3720 Concentration*
Volatile Organics			
1,1,1-Trichloroethane	µg/Kg	482000 U	NA
1,1,2,2-Tetrachloroethane	µg/Kg	827000 U	NA
1,1,2-Trichloroethane	µg/Kg	491000 U	NA
1,1-Dichloroethane	µg/Kg	427000 U	NA
1,1-Dichloroethene	µg/Kg	455000 U	NA
1,2-Dichloroethane	µg/Kg	391000 U	NA
1,2-Dichloropropane	µg/Kg	436000 U	NA
2-Butanone	µg/Kg	3400000 U	NA
2-Hexanone	µg/Kg	3430000 U	NA
4-Methyl-2-Pentanone	µg/Kg	3660000 U	NA
Acetone	µg/Kg	3200000 U	NA
Benzene	µg/Kg	409000 U	NA
Bromodichloromethane	µg/Kg	445000 U	NA
Bromoform	µg/Kg	445000 U	NA
Bromomethane	µg/Kg	455000 U	NA
CarbonDisulfide	µg/Kg	2150000 U	NA
CarbonTetrachloride	µg/Kg	445000 U	NA
Chlorobenzene	µg/Kg	373000 U	NA
Chloroethane	µg/Kg	736000 U	NA
Chloroform	µg/Kg	473000 U	NA
Chloromethane	µg/Kg	336000 U	NA
cis-1,2-Dichloroethene	µg/Kg	427000 U	NA
cis-1,3-Dichloropropene	µg/Kg	391000 U	NA
Dibromochloromethane	µg/Kg	455000 U	NA
Ethylbenzene	µg/Kg	345000 U	NA
MethyleneChloride	µg/Kg	1230000 U	NA
Styrene	µg/Kg	355000 U	NA
Tetrachloroethene	µg/Kg	345000 U	NA
Toluene	µg/Kg	309000 U	NA
trans-1,2-Dichloroethene	µg/Kg	482000 U	NA
trans-1,3-Dichloropropene	µg/Kg	227000 U	NA
Trichloroethene	µg/Kg	409000 U	NA
VinylChloride	µg/Kg	509000 U	NA
Xylenes	µg/Kg	355000 U	NA
Semivolatile Organics			
1,2,4-Trichlorobenzene	µg/Kg	15200 U	15200 U
1,2-Dichlorobenzene	µg/Kg	12000 U	12000 U
1,3-Dichlorobenzene	µg/Kg	13600 U	13600 U
1,4-Dichlorobenzene	µg/Kg	18800 U	18800 U
2,4,5-Trichlorophenol	µg/Kg	20800 U	20800 U
2,4,6-Trichlorophenol	µg/Kg	32800 U	32800 U
2,4-Dichlorophenol	µg/Kg	24800 U	24800 U
2,4-Dimethylphenol	µg/Kg	200000 U	200000 U

* Data qualifier included with concentration value
U: Undetected
NA: Not Analyzed

Table 4-126
Summary of Drain Oil Sample Results
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Drain04-W-3719 Concentration*	Drain03-W-3720 Concentration*
2,4-Dinitrophenol	µg/Kg	200000 U	200000 U
2,4-Dinitrotoluene	µg/Kg	30400 U	30400 U
2,6-Dinitrotoluene	µg/Kg	40000 U	40000 U
2-Chloronaphthalene	µg/Kg	16400 U	16400 U
2-Chlorophenol	µg/Kg	18400 U	18400 U
2-Methylnaphthalene	µg/Kg	20000 U	20000 U
2-Methylphenol	µg/Kg	31200 U	31200 U
2-Nitroaniline	µg/Kg	200000 U	200000 U
2-Nitrophenol	µg/Kg	20400 U	20400 U
3,3'-Dichlorobenzidine	µg/Kg	200000 U	200000 U
3-Nitroaniline	µg/Kg	200000 U	200000 U
4,6-Dinitro-2-methylphenol	µg/Kg	200000 U	200000 U
4-Bromophenylphenylether	µg/Kg	40800 U	40800 U
4-Chloro-3-methylphenol	µg/Kg	200000 U	200000 U
4-Chloroaniline	µg/Kg	200000 U	200000 U
4-Chlorophenylphenylether	µg/Kg	23600 U	23600 U
4-Nitroaniline	µg/Kg	44400 U	44400 U
4-Nitrophenol	µg/Kg	200000 U	200000 U
Acenaphthene	µg/Kg	9600 U	9600 U
Acenaphthylene	µg/Kg	20000 U	20000 U
Anthracene	µg/Kg	20000 U	20000 U
Benzo(a)anthracene	µg/Kg	20000 U	20000 U
Benzo(a)pyrene	µg/Kg	20000 U	20000 U
Benzo(b)fluoranthene	µg/Kg	20000 U	20000 U
Benzo(g,h,i)perylene	µg/Kg	20000 U	20000 U
Benzo(k)fluoranthene	µg/Kg	20000 U	20000 U
BenzoicAcid	µg/Kg	40000 U	40000 U
bis(2-Chloroethoxy)methane	µg/Kg	14800 U	14800 U
bis(2-Chloroethyl)ether	µg/Kg	44800 U	44800 U
bis(2-Chloroisopropyl)ether	µg/Kg	13200 U	13200 U
bis(2-Ethylhexyl)phthalate	µg/Kg	52900	106000
Butylbenzylphthalate	µg/Kg	34400 U	34400 U
Carbazole	µg/Kg	20000 U	20000 U
Chrysene	µg/Kg	20000 U	20000 U
Dibenzo(a,h)anthracene	µg/Kg	20000 U	20000 U
Dibenzofuran	µg/Kg	20400 U	20400 U
Diethylphthalate	µg/Kg	21200 U	21200 U
Dimethylphthalate	µg/Kg	22000 U	22000 U
Di-n-butylphthalate	µg/Kg	28800 U	28800 U
Di-n-octylphthalate	µg/Kg	36400 U	36400 U
Fluoranthene	µg/Kg	20000 U	20000 U
Fluorene	µg/Kg	4800 U	4800 U
Hexachlorobenzene	µg/Kg	24000 U	24000 U
Hexachlorobutadiene	µg/Kg	15200 U	15200 U
Hexachlorocyclopentadiene	µg/Kg	200000 U	200000 U

* Data qualifier included with concentration value
U: Undetected
NA: Not Analyzed

Table 4-126
Summary of Drain Oil Sample Results
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Drain04-W-3719 Concentration*	Drain03-W-3720 Concentration*
Hexachloroethane	µg/Kg	26400 U	26400 U
Indeno(1,2,3-cd)pyrene	µg/Kg	20000 U	20000 U
Isophorone	µg/Kg	19200 U	19200 U
m,p-Cresols	µg/Kg	40000 U	40000 U
Naphthalene	µg/Kg	20000 U	20000 U
Nitrobenzene	µg/Kg	24400 U	24400 U
N-Nitroso-di-n-propylamine	µg/Kg	27200 U	27200 U
N-Nitrosodiphenylamine	µg/Kg	26800 U	26800 U
Pentachlorophenol	µg/Kg	200000 U	200000 U
Phenanthrene	µg/Kg	20000 U	20000 U
Phenol	µg/Kg	15200 U	15200 U
Pyrene	µg/Kg	20000 U	20000 U
Pesticides			
4.4'-DDD	µg/Kg	252 U	252 U
4,4'-DDE	µg/Kg	216 U	216 U
4,4'-DDT	µg/Kg	456 U	456 U
Aldrin	µg/Kg	206 U	206 U
alpha-BHC	µg/Kg	139 U	139 U
alpha-Chlordane	µg/Kg	244 U	244 U
beta-BHC	µg/Kg	114 U	114 U
delta-BHC	µg/Kg	114 U	114 U
Dieldrin	µg/Kg	206 U	206 U
Endosulfan I	µg/Kg	96.2 U	96.2 U
Endosulfan II	µg/Kg	186 U	186 U
Endosulfan Sulfate	µg/Kg	220 U	220 U
Endrin	µg/Kg	242 U	242 U
Endrin Aldehyde	µg/Kg	242 U	242 U
Endrin Ketone	µg/Kg	260 U	260 U
gamma-BHC (Lindane)	µg/Kg	99.8 U	99.8 U
gamma-Chlordane	µg/Kg	128 U	128 U
Heptachlor	µg/Kg	127 U	127 U
Heptachlor Epoxide	µg/Kg	108 U	108 U
Methoxychlor	µg/Kg	1610 U	1610 U
Toxaphene	µg/Kg	15000 U	15000 U
PCBs			
Aroclor-1016	µg/Kg	10000 U	10000 U
Aroclor-1221	µg/Kg	28200 U	28200 U
Aroclor-1232	µg/Kg	16700 U	16700 U
Aroclor-1242	µg/Kg	16700 U	16700 U
Aroclor-1248	µg/Kg	10000 U	10000 U
Aroclor-1254	µg/Kg	214000	83800
Aroclor-1260	µg/Kg	10000 U	10000 U
Metals			
Aluminum	mg/Kg	7.1 U	NA
Antimony	mg/Kg	0.33 U	NA

* Data qualifier included with concentration value
U: Undetected
NA: Not Analyzed

Table 4-126
Summary of Drain Oil Sample Results
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Drain04-W-3719 Concentration*	Drain03-W-3720 Concentration*
Arsenic	mg/Kg	0.2 U	NA
Barium	mg/Kg	0.15	NA
Beryllium	mg/Kg	0.023 U	NA
Boron	mg/Kg	0.725	NA
Cadmium	mg/Kg	0.103	NA
Calcium	mg/Kg	10.3	NA
Chromium	mg/Kg	0.245	NA
Cobalt	mg/Kg	0.124	NA
Copper	mg/Kg	1.8	NA
Iron	mg/Kg	3.85	NA
Lead	mg/Kg	0.169	NA
Lithium	mg/Kg	0.021 U	NA
Magnesium	mg/Kg	1.89	NA
Manganese	mg/Kg	0.139	NA
Mercury	mg/Kg	0.044	NA
Nickel	mg/Kg	1.69	NA
Potassium	mg/Kg	2.76	NA
Selenium	mg/Kg	0.31 U	NA
Silver	mg/Kg	0.006	NA
Sodium	mg/Kg	3.48	NA
Thallium	mg/Kg	0.008	NA
Vanadium	mg/Kg	6.36	NA
Zinc	mg/Kg	2.66	NA
Radionuclides			
Actinium-227	pCi/g	-0.0836 U	NA
Alpha	pCi/g	NA	NA
Americium-241	pCi/g	-0.0109 U	NA
Beta	pCi/g	NA	NA
Cesium-137	pCi/g	-0.0011 U	NA
Cobalt-60	pCi/g	0.00103 U	NA
Plutonium-238	pCi/g	NA	NA
Plutonium-239/240	pCi/g	NA	NA
Potassium-40	pCi/g	NA	NA
Protactinium-231	pCi/g	0.119 U	NA
Radium-226	pCi/g	0.0935	NA
Radium-228	pCi/g	NA	NA
Radium-228 gamma	pCi/g	0.0757 U	NA
Strontium-90	pCi/g	NA	NA
Thorium-228 alpha	pCi/g	0.237 U	NA
Thorium-228 gamma	pCi/g	0.0291	NA
Thorium-230	pCi/g	0.142 U	NA
Thorium-232	pCi/g	-0.00162 U	NA
TotalActivity	pCi/g	NA	NA
Uranium-233/234	pCi/g	0.0174 U	NA
Uranium-235 gamma	pCi/g	0.0385 U	NA

* Data qualifier included with concentration value
U: Undetected
NA: Not Analyzed

Table 4-126
Summary of Drain Oil Sample Results
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Drain04-W-3719 Concentration*	Drain03-W-3720 Concentration*
Uranium-235/236 alpha	pCi/g	-0.0287 U	NA
Uranium-238 alpha	pCi/g	-0.0263 U	NA
Uranium-238 gamma	pCi/g	0.39 U	NA

* Data qualifier included with concentration value
U: Undetected
NA: Not Analyzed

Table 4-127
Exposure Unit 16
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	41	313	27500	41
Antimony	mg/Kg	41	0.287 BN	68 N	24
Arsenic	mg/Kg	41	0.84 J	49.7	41
Barium	mg/Kg	41	61.5 N	3990 *	41
Beryllium	mg/Kg	41	0.15 B	1.28	37
Boron	mg/Kg	41	4.94 BN	11700	38
Cadmium	mg/Kg	41	0.144 B	236	35
Calcium	mg/Kg	41	530	204000 *	41
Chromium	mg/Kg	41	3.6 J	814 *N	41
Cobalt	mg/Kg	41	4.36	107 *	37
Copper	mg/Kg	41	11.3	8290 *N	41
Iron	mg/Kg	41	2980	561000	41
Lead	mg/Kg	41	5.86	8020 N*	40
Lithium	mg/Kg	41	1.43 J	42.8 N	38
Magnesium	mg/Kg	41	71.3 J	27700 *	41
Manganese	mg/Kg	41	6.8	4020 *	41
Mercury	mg/Kg	41	0.012 N*	285 *	41
Nickel	mg/Kg	41	2.8 J	8890 *E	41
Potassium	mg/Kg	41	304 J	5640	41
Selenium	mg/Kg	41	0.48 J	6.39 B	34
Silver	mg/Kg	41	0.08 B	15.3	35
Sodium	mg/Kg	41	51.4	3430	41
Thallium	mg/Kg	41	0.035 B	0.532 BN	27
Vanadium	mg/Kg	41	1.4 J	110 *N	40
Zinc	mg/Kg	41	7.1 J	18000	41
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/Kg	9	--	--	0
2,4,6-Trinitrotoluene	µg/Kg	9	--	--	0
2,4-Dinitrotoluene	µg/Kg	58	--	--	0
2,6-Dinitrotoluene	µg/Kg	58	--	--	0
2-Amino-4,6-dinitrotoluene	µg/Kg	9	--	--	0
2-Nitrotoluene	µg/Kg	9	--	--	0
3-Dinitrobenzene	µg/Kg	9	--	--	0
3-Nitrotoluene	µg/Kg	9	--	--	0
4-Amino-2,6-dinitrotoluene	µg/Kg	9	--	--	0
4-Nitrotoluene	µg/Kg	9	--	--	0
HMX	µg/Kg	9	--	--	0
Nitrobenzene	µg/Kg	58	--	--	0
RDX	µg/Kg	9	--	--	0
Tetryl	µg/Kg	9	--	--	0
PAHs					
Acenaphthene	µg/Kg	58	36	1500	10
Acenaphthylene	µg/Kg	58	15.7 J	45.2 J	4

* Data qualifier included with concentration value

Table 4-127
Exposure Unit 16
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	58	3.1 J	521 J	20
Benzo(a)anthracene	µg/Kg	58	8.39	9080	25
Benzo(a)pyrene	µg/Kg	58	8.8 J	9330	24
Benzo(b)fluoranthene	µg/Kg	58	11.1 J	11600	28
Benzo(g,h,i)perylene	µg/Kg	58	7.69	3770	21
Benzo(k)fluoranthene	µg/Kg	58	5.89	7910	16
Chrysene	µg/Kg	58	6.67	8000	27
Dibenzo(a,h)anthracene	µg/Kg	58	4	47	4
Fluoranthene	µg/Kg	58	5 J	13100	40
Fluorene	µg/Kg	58	5.8 J	236 J	11
Indeno(1,2,3-cd)pyrene	µg/Kg	58	6.8	3740	22
Naphthalene	µg/Kg	58	28.2 J	680 J	9
Phenanthrene	µg/Kg	58	4.07 J	6710 J	33
Pyrene	µg/Kg	58	8.56	13300	35
PCBs					
Aroclor-1016	µg/Kg	31	--	--	0
Aroclor-1221	µg/Kg	31	--	--	0
Aroclor-1232	µg/Kg	31	--	--	0
Aroclor-1242	µg/Kg	31	--	--	0
Aroclor-1248	µg/Kg	31	70	70	1
Aroclor-1254	µg/Kg	31	285	84900	12
Aroclor-1260	µg/Kg	31	15.4 JP	18700	18
Pesticides					
4,4'-DDD	µg/Kg	27	1.1 JP	100	6
4,4'-DDE	µg/Kg	27	1.5 J	43.8	9
4,4'-DDT	µg/Kg	27	1.8 J	60900	9
Aldrin	µg/Kg	27	3.7 J	5 J	2
alpha-BHC	µg/Kg	27	2.1 J	5.5 J	2
alpha-Chlordane	µg/Kg	27	2 J	180 J	3
beta-BHC	µg/Kg	27	1 J	4.6 J	2
delta-BHC	µg/Kg	27	0.88	6.5 J	4
Dieldrin	µg/Kg	27	4.1 J	420	3
Endosulfan I	µg/Kg	27	0.93 J	6.2 J	2
Endosulfan II	µg/Kg	27	--	--	0
Endosulfan sulfate	µg/Kg	27	14 J	39 J	2
Endrin	µg/Kg	27	1.3 J	11 J	3
Endrin aldehyde	µg/Kg	27	2.6 J	160 E	6
Endrin ketone	µg/Kg	27	16 J	80	3
gamma-BHC (Lindane)	µg/Kg	27	0.53 JP	3.7 J	3
gamma-Chlordane	µg/Kg	27	1.7 J	1.7 J	1
Heptachlor	µg/Kg	27	1.5 J	8.5 J	3
Heptachlor epoxide	µg/Kg	27	0.44 J	12 J	6
Methoxychlor	µg/Kg	27	--	--	0
Toxaphene	µg/Kg	27	--	--	0

* Data qualifier included with concentration value

Table 4-127
Exposure Unit 16
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	61	0.654	1.02	3
Alpha	pCi/g	60	4.95	162	60
Americium-241	pCi/g	61	0.159	0.159	1
Beta	pCi/g	60	11.2	148	60
Cesium-137	pCi/g	61	0.0237	1.5	50
Cobalt-60	pCi/g	61	--	--	0
Plutonium-238	pCi/g	11	--	--	0
Plutonium-239/240	pCi/g	11	--	--	0
Potassium-40	pCi/g	10	14.7	24.2	10
Protactinium-231	pCi/g	61	--	--	0
Radium-226	pCi/g	61	0.424	10.3	61
Radium-228	pCi/g	61	0.196	1.44	59
Strontium-90	pCi/g	11	0.74	0.74	1
Thorium-228	pCi/g	61	0.365	1.98	56
Thorium-230	pCi/g	61	0.586	12.9	61
Thorium-232	pCi/g	61	0.235	1.62	60
Total Activity	pCi/g	18	23.6	23.6	1
Total Uranium	μg/g	18	0.612	39.6	18
Uranium-234	pCi/g	61	0.477 J	86.2	61
Uranium-235	pCi/g	61	0.0804	6.99	35
Uranium-238	pCi/g	61	0.365	88.9	61
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	58	--	--	0
1,2-Dichlorobenzene	μg/Kg	58	--	--	0
1,3-Dichlorobenzene	μg/Kg	58	--	--	0
1,4-Dichlorobenzene	μg/Kg	58	--	--	0
2,4,5-Trichlorophenol	μg/Kg	58	--	--	0
2,4,6-Trichlorophenol	μg/Kg	58	--	--	0
2,4-Dichlorophenol	μg/Kg	58	--	--	0
2,4-Dimethylphenol	μg/Kg	58	--	--	0
2,4-Dinitrophenol	μg/Kg	58	--	--	0
2-Chloronaphthalene	μg/Kg	58	--	--	0
2-Chlorophenol	μg/Kg	58	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	58	--	--	0
2-Methylnaphthalene	μg/Kg	51	9.4 J	629	14
2-Nitroaniline	μg/Kg	58	--	--	0
2-Nitrophenol	μg/Kg	58	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	58	--	--	0
3-Nitroaniline	μg/Kg	58	--	--	0
4-Bromophenylphenylether	μg/Kg	58	--	--	0
4-Chloro-3-methylphenol	μg/Kg	58	--	--	0
4-Chloroaniline	μg/Kg	58	--	--	0
4-Chlorophenylphenylether	μg/Kg	58	--	--	0

* Data qualifier included with concentration value

Table 4-127
Exposure Unit 16
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
4-Nitroaniline	µg/Kg	58	--	--	0
4-Nitrophenol	µg/Kg	58	--	--	0
Benzoic Acid	µg/Kg	13	--	--	0
bis(2-Chloroethoxy)methane	µg/Kg	58	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	58	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	58	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	58	41.9 J	179000	30
Butylbenzylphthalate	µg/Kg	58	1610 J	295000	4
Carbazole	µg/Kg	58	10 J	271 J	7
Dibenzofuran	µg/Kg	58	11.3 J	74.8 J	8
Diethylphthalate	µg/Kg	58	--	--	0
Dimethylphthalate	µg/Kg	58	332 J	332 J	1
Di-n-butylphthalate	µg/Kg	58	27.8 J	23200 J	7
Di-n-octylphthalate	µg/Kg	58	2160 J	2160 J	1
Diphenylamine	µg/Kg	38	--	--	0
Hexachlorobenzene	µg/Kg	58	--	--	0
Hexachlorobutadiene	µg/Kg	58	--	--	0
Hexachlorocyclopentadiene	µg/Kg	58	--	--	0
Hexachloroethane	µg/Kg	58	--	--	0
Isophorone	µg/Kg	58	--	--	0
m,p-Cresols	µg/Kg	51	334 J	825	2
N-Nitroso-di-n-propylamine	µg/Kg	58	--	--	0
N-Nitrosodiphenylamine	µg/Kg	20	--	--	0
o-Cresol	µg/Kg	58	--	--	0
p-Cresol	µg/Kg	7	220 J	220 J	1
Pentachlorophenol	µg/Kg	58	723 J	723 J	1
Phenol	µg/Kg	58	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	35	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	35	--	--	0
1,1,2-Trichloroethane	µg/Kg	35	--	--	0
1,1-Dichloroethane	µg/Kg	35	--	--	0
1,1-Dichloroethene	µg/Kg	35	0.739 J	5.31	2
1,2-Dichloroethane	µg/Kg	35	--	--	0
1,2-Dichloropropane	µg/Kg	35	1.55 J	1.55 J	1
2-Butanone	µg/Kg	35	2.2 J	2660	10
2-Hexanone	µg/Kg	35	595	595	1
4-Methyl-2-pentanone	µg/Kg	35	--	--	0
Acetone	µg/Kg	35	10.6	6740	14
Benzene	µg/Kg	35	0.38 J	1.7 J	2
Bromodichloromethane	µg/Kg	35	--	--	0
Bromoform	µg/Kg	35	--	--	0
Bromomethane	µg/Kg	35	--	--	0
Carbon disulfide	µg/Kg	35	2.7 J	84.9	6

* Data qualifier included with concentration value

Table 4-127
Exposure Unit 16
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Carbon tetrachloride	µg/Kg	35	0.86 J	0.86 J	1
Chlorobenzene	µg/Kg	35	2.11	2.11	1
Chloroethane	µg/Kg	35	--	--	0
Chloroform	µg/Kg	35	0.34 J	0.34 J	1
Chloromethane	µg/Kg	35	--	--	0
cis-1,2-Dichloroethene	µg/Kg	28	0.99 J	413	6
cis-1,3-Dichloropropene	µg/Kg	35	--	--	0
Dibromochloromethane	µg/Kg	30	--	--	0
Ethylbenzene	µg/Kg	35	0.63 J	138 J	7
Methylene chloride	µg/Kg	35	155 J	680 J	3
Styrene	µg/Kg	35	228	228	1
Tetrachloroethene	µg/Kg	35	0.345 J	1000	13
Toluene	µg/Kg	35	0.6 J	387	12
trans-1,2-Dichloroethene	µg/Kg	28	1.3 J	86.9	2
trans-1,3-Dichloropropene	µg/Kg	35	--	--	0
Trichloroethene	µg/Kg	35	0.93 J	217 J	10
Vinyl chloride	µg/Kg	35	48.8 J	48.8	1
Xylenes (total)	µg/Kg	35	2.62	603	10

* Data qualifier included with concentration value

Table 4-128
Exposure Unit 16
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	2	8570	19900	2
Antimony	mg/Kg	2	0.21 J	0.43 J	2
Arsenic	mg/Kg	2	2.9	5.8	2
Barium	mg/Kg	2	108 J	141 J	2
Beryllium	mg/Kg	2	0.45 J	0.79	2
Boron	mg/Kg	2	3.1 J	6.4 J	2
Cadmium	mg/Kg	2	--	--	0
Calcium	mg/Kg	2	8820	23300	2
Chromium	mg/Kg	2	9.9 J	17.2 J	2
Cobalt	mg/Kg	2	8.8	9.7	2
Copper	mg/Kg	2	67.5	74.6	2
Iron	mg/Kg	2	24300	24900	2
Lead	mg/Kg	2	13	14.4	2
Lithium	mg/Kg	2	12.9	37.4	2
Magnesium	mg/Kg	2	2240	3180	2
Manganese	mg/Kg	2	400	3590	2
Mercury	mg/Kg	2	0.15 J	0.15 J	1
Nickel	mg/Kg	2	14.7	20.4	2
Potassium	mg/Kg	2	621 J	1060 J	2
Selenium	mg/Kg	2	0.25 J	0.25 J	1
Silver	mg/Kg	2	--	--	0
Sodium	mg/Kg	2	113	147	2
Thallium	mg/Kg	2	0.13 J	0.13 J	1
Vanadium	mg/Kg	2	16.8	17.4	2
Zinc	mg/Kg	2	40 J	91.5 J	2
Nitroaromatics					
1,3,5-Trinitrobenzene	µg/Kg	2	--	--	0
2,4,6-Trinitrotoluene	µg/Kg	2	--	--	0
2,4-Dinitrotoluene	µg/Kg	2	--	--	0
2,6-Dinitrotoluene	µg/Kg	2	--	--	0
2-Amino-4,6-dinitrotoluene	µg/Kg	2	--	--	0
2-Nitrotoluene	µg/Kg	2	--	--	0
3-Dinitrobenzene	µg/Kg	2	--	--	0
3-Nitrotoluene	µg/Kg	2	--	--	0
4-Amino-2,6-dinitrotoluene	µg/Kg	2	--	--	0
4-Nitrotoluene	µg/Kg	2	--	--	0
HMX	µg/Kg	2	--	--	0
Nitrobenzene	µg/Kg	2	--	--	0
RDX	µg/Kg	2	--	--	0
Tetryl	µg/Kg	2	--	--	0
PAHs					
Acenaphthene	µg/Kg	2	43 J	43 J	1
Acenaphthylene	µg/Kg	2	--	--	0

* Data qualifier included with concentration value

Table 4-128
Exposure Unit 16
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	2	1.2	33 J	2
Benzo(a)anthracene	µg/Kg	2	2.3	42 J	2
Benzo(a)pyrene	µg/Kg	2	2.5	4.7 J	2
Benzo(b)fluoranthene	µg/Kg	2	5.8	11 J	2
Benzo(g,h,i)perylene	µg/Kg	2	4.5	6.6 J	2
Benzo(k)fluoranthene	µg/Kg	2	2.2	4.7 J	2
Chrysene	µg/Kg	2	--	--	0
Dibenzo(a,h)anthracene	µg/Kg	2	--	--	0
Fluoranthene	µg/Kg	2	8.6	29 J	2
Fluorene	µg/Kg	2	30 J	30 J	1
Indeno(1,2,3-cd)pyrene	µg/Kg	2	2.3	2.3	1
Naphthalene	µg/Kg	2	110 J	110 J	1
Phenanthrene	µg/Kg	2	6.9	57 J	2
Pyrene	µg/Kg	2	6.3	30 J	2
PCBs					
Aroclor-1016	µg/Kg	2	--	--	0
Aroclor-1221	µg/Kg	2	--	--	0
Aroclor-1232	µg/Kg	2	--	--	0
Aroclor-1242	µg/Kg	2	--	--	0
Aroclor-1248	µg/Kg	2	--	--	0
Aroclor-1254	µg/Kg	2	--	--	0
Aroclor-1260	µg/Kg	2	--	--	0
Pesticides					
4,4'-DDD	µg/Kg	2	--	--	0
4,4'-DDE	µg/Kg	2	13 J	13 J	1
4,4'-DDT	µg/Kg	2	--	--	0
Aldrin	µg/Kg	2	--	--	0
alpha-BHC	µg/Kg	2	--	--	0
alpha-Chlordane	µg/Kg	2	63 J	450 EP	2
beta-BHC	µg/Kg	2	--	--	0
delta-BHC	µg/Kg	2	2.3 J	2.3 J	1
Dieldrin	µg/Kg	2	130 J	850 E	2
Endosulfan I	µg/Kg	2	--	--	0
Endosulfan II	µg/Kg	2	--	--	0
Endosulfan sulfate	µg/Kg	2	--	--	0
Endrin	µg/Kg	2	--	--	0
Endrin aldehyde	µg/Kg	2	--	--	0
Endrin ketone	µg/Kg	2	--	--	0
gamma-BHC (Lindane)	µg/Kg	2	--	--	0
gamma-Chlordane	µg/Kg	2	--	--	0
Heptachlor	µg/Kg	2	1.6 J	2.9 J	2
Heptachlor epoxide	µg/Kg	2	0.86 J	0.86 J	1
Methoxychlor	µg/Kg	2	23	23	1
Toxaphene	µg/Kg	2	--	--	0

* Data qualifier included with concentration value

Table 4-128
Exposure Unit 16
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	1	--	--	0
Alpha	pCi/g	1	12	12	1
Americium-241	pCi/g	1	--	--	0
Beta	pCi/g	1	29.8	29.8	1
Cesium-137	pCi/g	1	--	--	0
Cobalt-60	pCi/g	1	--	--	0
Protactinium-231	pCi/g	1	--	--	0
Radium-226	pCi/g	1	0.72	0.72	1
Radium-228	pCi/g	1	0.888	0.888	1
Thorium-228	pCi/g	1	1.08	1.08	1
Thorium-230	pCi/g	1	1.12	1.12	1
Thorium-232	pCi/g	1	1.39	1.39	1
Total Activity	pCi/g	1	--	--	0
Total Uranium	μg/g	1	1.78	1.78	1
Uranium-234	pCi/g	1	0.773	0.773	1
Uranium-235	pCi/g	1	0.313	0.313	1
Uranium-238	pCi/g	1	0.661	0.661	1
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	2	--	--	0
1,2-Dichlorobenzene	μg/Kg	2	--	--	0
1,3-Dichlorobenzene	μg/Kg	2	--	--	0
1,4-Dichlorobenzene	μg/Kg	2	--	--	0
2,4,5-Trichlorophenol	μg/Kg	2	--	--	0
2,4,6-Trichlorophenol	μg/Kg	2	--	--	0
2,4-Dichlorophenol	μg/Kg	2	--	--	0
2,4-Dimethylphenol	μg/Kg	2	--	--	0
2,4-Dinitrophenol	μg/Kg	2	--	--	0
2-Chloronaphthalene	μg/Kg	2	--	--	0
2-Chlorophenol	μg/Kg	2	--	--	0
2-Methyl-4,6-dinitrophenol	μg/Kg	2	--	--	0
2-Nitroaniline	μg/Kg	2	--	--	0
2-Nitrophenol	μg/Kg	2	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	2	--	--	0
3-Nitroaniline	μg/Kg	2	--	--	0
4-Bromophenylphenylether	μg/Kg	2	--	--	0
4-Chloro-3-methylphenol	μg/Kg	2	--	--	0
4-Chloroaniline	μg/Kg	2	--	--	0
4-Chlorophenylphenylether	μg/Kg	2	--	--	0
4-Nitroaniline	μg/Kg	2	--	--	0
4-Nitrophenol	μg/Kg	2	--	--	0
bis(2-Chloroethoxy)methane	μg/Kg	2	--	--	0
bis(2-Chloroethyl)ether	μg/Kg	2	--	--	0
bis(2-Chloroisopropyl)ether	μg/Kg	2	--	--	0

* Data qualifier included with concentration value

Table 4-128
Exposure Unit 16
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Ethylhexyl)phthalate	μg/Kg	2	--	--	0
Butylbenzylphthalate	μg/Kg	2	--	--	0
Carbazole	μg/Kg	2	--	--	0
Dibenzofuran	μg/Kg	2	--	--	0
Diethylphthalate	μg/Kg	2	--	--	0
Dimethylphthalate	μg/Kg	2	--	--	0
Di-n-butylphthalate	μg/Kg	2	--	--	0
Di-n-octylphthalate	μg/Kg	2	--	--	0
Hexachlorobenzene	μg/Kg	2	--	--	0
Hexachlorobutadiene	μg/Kg	2	--	--	0
Hexachlorocyclopentadiene	μg/Kg	2	--	--	0
Hexachloroethane	μg/Kg	2	--	--	0
Isophorone	μg/Kg	2	--	--	0
N-Nitroso-di-n-propylamine	μg/Kg	2	--	--	0
N-Nitrosodiphenylamine	μg/Kg	2	--	--	0
o-Cresol	μg/Kg	2	--	--	0
p-Cresol	μg/Kg	2	--	--	0
Pentachlorophenol	μg/Kg	2	--	--	0
Phenol	μg/Kg	2	--	--	0
Volatile Organics					
1,1,1-Trichloroethane	μg/Kg	3	--	--	0
1,1,2,2-Tetrachloroethane	μg/Kg	3	--	--	0
1,1,2-Trichloroethane	μg/Kg	3	--	--	0
1,1-Dichloroethane	μg/Kg	3	--	--	0
1,1-Dichloroethene	μg/Kg	3	--	--	0
1,2-Dichloroethane	μg/Kg	3	--	--	0
1,2-Dichloroethene	μg/Kg	2	--	--	0
1,2-Dichloropropane	μg/Kg	3	--	--	0
2-Butanone	μg/Kg	3	--	--	0
2-Hexanone	μg/Kg	3	--	--	0
4-Methyl-2-pentanone	μg/Kg	3	--	--	0
Acetone	μg/Kg	3	7.42	7.42	1
Benzene	μg/Kg	3	--	--	0
Bromodichloromethane	μg/Kg	3	--	--	0
Bromoform	μg/Kg	3	--	--	0
Bromomethane	μg/Kg	3	--	--	0
Carbon disulfide	μg/Kg	3	--	--	0
Carbon tetrachloride	μg/Kg	3	--	--	0
Chlorobenzene	μg/Kg	3	--	--	0
Chloroethane	μg/Kg	3	--	--	0
Chloroform	μg/Kg	3	--	--	0
Chloromethane	μg/Kg	3	--	--	0
cis-1,2-Dichloroethene	μg/Kg	1	--	--	0
cis-1,3-Dichloropropene	μg/Kg	3	--	--	0

* Data qualifier included with concentration value

Table 4-128
Exposure Unit 16
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Dibromochloromethane	μg/Kg	3	--	--	0
Ethylbenzene	μg/Kg	3	--	--	0
Methylene chloride	μg/Kg	3	--	--	0
Styrene	μg/Kg	3	--	--	0
Tetrachloroethene	μg/Kg	3	--	--	0
Toluene	μg/Kg	3	--	--	0
trans-1,2-Dichloroethene	μg/Kg	1	--	--	0
trans-1,3-Dichloropropene	μg/Kg	3	--	--	0
Trichloroethene	μg/Kg	3	--	--	0
Vinyl chloride	μg/Kg	3	--	--	0
Xylenes (total)	μg/Kg	3	--	--	0

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Antimony	mg/Kg	5.03	DRAIN01-S-3701	11 N
			DRAIN03-S-3705	48.1 BN
			DRAIN04-S-3707	68 N
			DRAIN06-S-3711	5.4 N
			DRAIN07-S-3712	26.9
			DRAIN08-S-3713	37.1
			DRAIN09-S-3714	23.3
			DRAIN10-S-3715	56.8
			PIPE74S-2068	11.7 N
Arsenic	mg/Kg	7.14	DRAIN01-S-3701	15.2 *N
			DRAIN02-S-3703	15.3 *N
			DRAIN03-S-3705	14 *N
			DRAIN04-S-3707	16.5 *N
			DRAIN06-S-3711	23.4
			DRAIN07-S-3712	15.2
			DRAIN08-S-3713	29.5
			DRAIN09-S-3714	49.7
			DRAIN10-S-3715	38.8
			DRAIN11-S-3716	48.9
			DRAIN12-S-3717	15
			MH02S-2002	9.19
			MH03S-2005	7.52 N
			MH04S-2007	9.57 N
			PIPE23S-2055	7.73 N
			PIPE33S-2059	10.3
			PIPE47S-2063	21.4 N
			PIPE74S-2068	9.72
Barium	mg/Kg	246	C7-NFSS-SL-SUMP1	268 J
			DRAIN01-S-3701	731 *N
			DRAIN03-S-3705	1100 *N
			DRAIN04-S-3707	1140 *N
			DRAIN06-S-3711	2100 *N
			DRAIN07-S-3712	1350 *
			DRAIN08-S-3713	2290 *
			DRAIN09-S-3714	674 *
			DRAIN10-S-3715	2410 *
			DRAIN11-S-3716	3990 *
			PIPE15S-2054	248 N
			PIPE74S-2068	274 N

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Boron	mg/Kg	31.4	DRAIN01-S-3701	163 N*
			DRAIN03-S-3705	7580 N*
			DRAIN04-S-3707	7390 N*
			DRAIN06-S-3711	11700
			DRAIN07-S-3712	474
			DRAIN08-S-3713	594
			DRAIN09-S-3714	260
			DRAIN10-S-3715	443
			DRAIN11-S-3716	72.4
			DRAIN12-S-3717	36.1
			MH02S-2002	68.1
Cadmium	mg/Kg	1.89	DRAIN01-S-3701	11.4 *
			DRAIN02-S-3703	2.47 *
			DRAIN03-S-3705	199 *
			DRAIN04-S-3707	73.1 *
			DRAIN06-S-3711	31.1 *
			DRAIN07-S-3712	17.2
			DRAIN08-S-3713	236
			DRAIN09-S-3714	40.5
			DRAIN10-S-3715	31.2
			DRAIN11-S-3716	24.4
			DRAIN12-S-3717	6.1
			MH03S-2005	2.36
			MH09S-2017	6.08
			PIPE74S-2068	4.56
Calcium	mg/Kg	59400	C7-NFSS-SL-ST9	72400
			DRAIN02-S-3703	91500 *
			DRAIN12-S-3717	71300
			MH03S-2005	90100 *
			MH04S-2007	204000 *
			MH16S-2026	60300 J
Chromium	mg/Kg	472	DRAIN03-S-3705	814 *N
			DRAIN04-S-3707	771 *N
			DRAIN08-S-3713	761
			MH04S-2007	517
Cobalt	mg/Kg	21.3	DRAIN03-S-3705	94 *
			DRAIN04-S-3707	107 *
			DRAIN06-S-3711	75.3 *
			DRAIN07-S-3712	36.7
			DRAIN08-S-3713	24.8
			DRAIN09-S-3714	31.7
			DRAIN11-S-3716	46.8

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Copper	mg/Kg	184	DRAIN01-S-3701	508 *N
			DRAIN03-S-3705	4940 *N
			DRAIN04-S-3707	8290 *N
			DRAIN06-S-3711	3290 E
			DRAIN07-S-3712	1090
			DRAIN08-S-3713	915
			DRAIN09-S-3714	3940
			DRAIN10-S-3715	1130
			DRAIN11-S-3716	835
			MH03S-2005	806
			MH04S-2007	191
			MH09S-2017	252 N
Iron	mg/Kg	37800	C7-NFSS-SL-ST9	38500
			DRAIN01-S-3701	170000 *
			DRAIN02-S-3703	42700 *
			DRAIN03-S-3705	186000 *
			DRAIN04-S-3707	463000 *
			DRAIN06-S-3711	55400 *
			DRAIN07-S-3712	199000
			DRAIN08-S-3713	266000
			DRAIN09-S-3714	243000
			DRAIN10-S-3715	325000
			DRAIN11-S-3716	561000
			DRAIN12-S-3717	38300
			MH03S-2005	72100 *
			MH04S-2007	47500 *
			MH08S-2015	42600
			PIPE74S-2068	49600

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Lead	mg/Kg	121	C7-NFSS-SL-PIPE2	132
			C7-NFSS-SL-SUMP2	258
			DRAIN03-S-3705	1610 N*
			DRAIN04-S-3707	8020 N*
			DRAIN06-S-3711	1970 *E
			DRAIN07-S-3712	2440
			DRAIN08-S-3713	1130
			DRAIN09-S-3714	824
			DRAIN10-S-3715	718
			DRAIN11-S-3716	737
			DRAIN12-S-3717	270
			MH03S-2005	1230 N
			MH04S-2007	157 N
			PIPE33S-2059	530
			PIPE42S-2062	153
			PIPE63S-2065	317 N
			PIPE74S-2068	1530
Manganese	mg/Kg	814	C7-NFSS-SL-ST9	1290
			DRAIN01-S-3701	900 *
			DRAIN03-S-3705	1120 *
			DRAIN04-S-3707	4020 *
			DRAIN07-S-3712	1060 *
			DRAIN08-S-3713	1170 *
			DRAIN09-S-3714	1380 *
			DRAIN10-S-3715	1950 *
			DRAIN11-S-3716	3020 *
			DRAIN14-S-3719	1220 *
			MH12S-2020	883
			MH29S-2033	1310 *
			PIPE23S-2055	1090 *
			PIPE33S-2059	858

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Mercury	mg/Kg	0.47	C7-NFSS-SL-PIPE1	1.2 J
			C7-NFSS-SL-PIPE2	0.99 J
			C7-NFSS-SL-SUMP1	0.99 J
			C7-NFSS-SL-SUMP2	0.56 J
			DRAIN01-S-3701	6.93 *
			DRAIN02-S-3703	1.48 *
			DRAIN03-S-3705	285 *
			DRAIN04-S-3707	219 *
			DRAIN06-S-3711	216
			DRAIN07-S-3712	136 *
			DRAIN08-S-3713	10.4 *
			DRAIN09-S-3714	3.56 *
			DRAIN10-S-3715	1.99 *
			DRAIN11-S-3716	23.8 *
			DRAIN12-S-3717	2.53 *
			MH09S-2017	9.49
			MH16S-2026	0.498 J
Nickel	mg/Kg	51.9	DRAIN01-S-3701	233 *E
			DRAIN02-S-3703	58.2 *E
			DRAIN03-S-3705	7520 *E
			DRAIN04-S-3707	8890 *E
			DRAIN06-S-3711	3220
			DRAIN07-S-3712	740
			DRAIN08-S-3713	376
			DRAIN09-S-3714	1030
			DRAIN10-S-3715	825
			DRAIN11-S-3716	408
			MH02S-2002	52.5
			MH03S-2005	80.7
			MH04S-2007	63.8
			MH08S-2015	65.4 N
			MH09S-2017	61.8 N
Potassium	mg/Kg	5070	MH03S-2005	5640

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	1.87	C7-NFSS-SL-PIPE1	2.7 J
			C7-NFSS-SL-PIPE2	2.1 J
			C7-NFSS-SL-SS10	2.2
			C7-NFSS-SL-ST6	4.6
			C7-NFSS-SL-ST9	2.5
			C7-NFSS-SL-SUMP1	2.4 J
			DRAIN06-S-3711	2.33
			DRAIN08-S-3713	1.92 B
			MH02S-2002	3.57 B
			MH04S-2007	3.97 N
			MH29S-2033	4.4 N
			PIPE23S-2055	2.79 BN
			PIPE33S-2059	6.39 B
			PIPE41S-2060	2.16 B
			PIPE42S-2062	2.63 B
			PIPE63S-2065	2.85 BN
			PIPE72S-2066	4.96 N
Silver	mg/Kg	0.742	C7-NFSS-SL-ST9	1.1 J
			DRAIN03-S-3705	5.9
			DRAIN04-S-3707	11.5
			DRAIN06-S-3711	15
			DRAIN07-S-3712	15.3
			DRAIN08-S-3713	2.26
			DRAIN09-S-3714	8.27
			DRAIN10-S-3715	1.07
			DRAIN11-S-3716	0.811 B
			MH09S-2017	3.03
			SUMP02S-2069	0.863 *E
Sodium	mg/Kg	679	C7-NFSS-SL-SS10	1920
			DRAIN03-S-3705	1220 N
			DRAIN04-S-3707	854 N
			DRAIN06-S-3711	1200 E*
			DRAIN07-S-3712	1760
			DRAIN08-S-3713	927
			DRAIN09-S-3714	3430
			DRAIN10-S-3715	1790
Thallium	mg/Kg	0.356	C7-NFSS-SL-PIPE1	0.4 J
			PIPE47S-2063	0.532 BN

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Vanadium	mg/Kg	60.6	DRAIN01-S-3701	63.7 *N
			DRAIN02-S-3703	61 *N
			DRAIN03-S-3705	88 *N
			DRAIN04-S-3707	110 *N
			DRAIN06-S-3711	62.8 *
			DRAIN08-S-3713	81.2
			DRAIN10-S-3715	92.2
			DRAIN11-S-3716	97.2
			MH03S-2005	69.1
Zinc	mg/Kg	405	DRAIN01-S-3701	2240 *N
			DRAIN02-S-3703	537 *N
			DRAIN03-S-3705	6770 *N
			DRAIN04-S-3707	6890 *N
			DRAIN06-S-3711	2970 *
			DRAIN07-S-3712	3020
			DRAIN08-S-3713	18000
			DRAIN09-S-3714	4660
			DRAIN10-S-3715	2300
			DRAIN11-S-3716	2690
			DRAIN12-S-3717	646
			MH02S-2002	639
			MH03S-2005	671
			MH04S-2007	779
			MH09S-2017	644
			PIPE74S-2068	1370
PAHs				
Acenaphthene	μg/Kg	--	C7-NFSS-SL-PIPE1	880
			C7-NFSS-SL-PIPE2	51 J
			C7-NFSS-SL-SS10	36
			C7-NFSS-SL-ST6	1500
			C7-NFSS-SL-ST9	49
			C7-NFSS-SL-SUMP1	310 J
			C7-NFSS-SL-SUMP2	830 J
			DRAIN07-S-3712	218 J
			MH03S-2005	347
			MH04S-2007	123

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Anthracene	µg/Kg	--	C7-NFSS-SL-PIPE1	55
			C7-NFSS-SL-PIPE2	3.1 J
			C7-NFSS-SL-SS10	5.7
			C7-NFSS-SL-ST6	150
			C7-NFSS-SL-ST9	6.7 J
			C7-NFSS-SL-SUMP1	21 J
			C7-NFSS-SL-SUMP2	68 J
			DRAIN07-S-3712	521 J
			MH02S-2002	73.9
			MH03S-2005	432
			MH04S-2007	300
			MH29S-2033	27.9 J
			MH33S-2037	24 J
			MH41S-2042	42.8 J
			MH42S-2044	164 J
			MH45S-2050	30.9 J
			MH46S-2053	79.8 J
			PIPE33S-2059	42.8 J
			PIPE63S-2065	95.6
			SUMP07S-2070	5.6 J
Benzo(a)anthracene	µg/Kg	399	DRAIN07-S-3712	1270
			DRAIN10-S-3715	941
			DRAIN11-S-3716	419 J
			MH03S-2005	9080
			MH04S-2007	5600
			MH42S-2044	697
			PIPE63S-2065	478
Benzo(a)pyrene	µg/Kg	618	DRAIN07-S-3712	1020
			DRAIN10-S-3715	1030
			MH03S-2005	9330
			MH04S-2007	5290
			MH09S-2017	4160
			MH42S-2044	874
Benzo(b)fluoranthene	µg/Kg	1090	DRAIN02-S-3703	1700 JP
			DRAIN07-S-3712	2170
			DRAIN10-S-3715	2590
			MH03S-2005	11600
			MH04S-2007	7390
			MH09S-2017	3600
			MH29S-2033	1240
			MH42S-2044	1470

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Benzo(g,h,i)perylene	μg/Kg	179	C7-NFSS-SL-ST6	340
			C7-NFSS-SL-SUMP2	180 J
			DRAIN07-S-3712	549 J
			DRAIN10-S-3715	651
			MH03S-2005	3770
			MH04S-2007	2500
			MH29S-2033	201
			MH41S-2042	197
			MH42S-2044	542
			MH45S-2050	202
			MH46S-2053	335
			PIPE33S-2059	297
Benzo(k)fluoranthene	μg/Kg	381	MH03S-2005	7910
			MH04S-2007	6450
			PIPE63S-2065	482
Chrysene	μg/Kg	470	C7-NFSS-SL-ST6	530
			DRAIN02-S-3703	1950 J
			DRAIN07-S-3712	1430
			DRAIN10-S-3715	1100
			DRAIN11-S-3716	563 J
			MH03S-2005	8000
			MH04S-2007	5410
			MH09S-2017	2330
			MH29S-2033	712
			MH42S-2044	796
Dibenzo(a,h)anthracene	μg/Kg	--	C7-NFSS-SL-PIPE1	21
			C7-NFSS-SL-SS10	4
			C7-NFSS-SL-ST6	47
			C7-NFSS-SL-SUMP2	21 J
Fluoranthene	μg/Kg	696	C7-NFSS-SL-ST6	940
			DRAIN02-S-3703	6370
			DRAIN06-S-3711	2580 J
			DRAIN07-S-3712	2780
			DRAIN10-S-3715	1010 J
			MH03S-2005	13100
			MH04S-2007	7180
			MH09S-2017	3990
			MH42S-2044	1250
			PIPE63S-2065	900

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Fluorene	μg/Kg	--	C7-NFSS-SL-PIPE1	90
			C7-NFSS-SL-SS10	6.2
			C7-NFSS-SL-ST6	92
			C7-NFSS-SL-ST9	9.4
			C7-NFSS-SL-SUMP2	18 J
			DRAIN01-S-3701	94.5 J
			DRAIN07-S-3712	236 J
			MH03S-2005	98.1 J
			MH04S-2007	37.5 J
			PIPE57S-2064	5.8 J
			PIPE63S-2065	54.8 J
Indeno(1,2,3-cd)pyrene	μg/Kg	265	DRAIN07-S-3712	490 J
			DRAIN10-S-3715	704
			MH03S-2005	3740
			MH04S-2007	2320
			MH29S-2033	280
			MH41S-2042	396
			MH42S-2044	1190
			MH46S-2053	565
			PIPE33S-2059	441
			PIPE63S-2065	336
Naphthalene	μg/Kg	--	C7-NFSS-SL-PIPE1	310
			C7-NFSS-SL-ST6	210
			C7-NFSS-SL-SUMP2	680 J
			DRAIN01-S-3701	88.7 J
			MH02S-2002	164
			MH03S-2005	28.2 J
			MH45S-2050	38.1 J
			PIPE47S-2063	42.8
			PIPE57S-2064	45.3

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Phenanthrene	μg/Kg	169	C7-NFSS-SL-PIPE1	210
			C7-NFSS-SL-ST6	290
			C7-NFSS-SL-SUMP1	170 J
			C7-NFSS-SL-SUMP2	450 J
			DRAIN01-S-3701	285
			DRAIN02-S-3703	6710 J
			DRAIN07-S-3712	2430
			DRAIN10-S-3715	375 J
			DRAIN11-S-3716	339 J
			MH02S-2002	408
			MH03S-2005	1830
			MH04S-2007	893
			MH09S-2017	1810
			MH42S-2044	559
			MH45S-2050	200
			MH46S-2053	398
			PIPE33S-2059	173
			PIPE63S-2065	584
Pyrene	μg/Kg	1000	DRAIN02-S-3703	8190 P
			DRAIN07-S-3712	2820
			MH03S-2005	13300
			MH04S-2007	7330
			MH09S-2017	3760
			MH42S-2044	1650
			PIPE74S-2068	1340
PCBs				
Aroclor-1254	μg/Kg	58.3	DRAIN02-S-3703	300
			DRAIN03-S-3705	73900
			DRAIN04-S-3707	33900
			DRAIN06-S-3711	22600 h
			DRAIN07-S-3712	84900
			DRAIN08-S-3713	28500
			DRAIN09-S-3714	12600
			DRAIN10-S-3715	29900
			DRAIN11-S-3716	3370
			DRAIN12-S-3717	1050
			DRAIN13-S-3718	812
			DRAIN14-S-3719	285

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Aroclor-1260	μg/Kg	21.7	C7-NFSS-SL-ST6	860
			C7-NFSS-SL-SUMP1	460
			C7-NFSS-SL-SUMP2	2200 E
			DRAIN01-S-3701	18700
			DRAIN03-S-3705	10300
			DRAIN06-S-3711	2910 h
			DRAIN07-S-3712	14600
			DRAIN08-S-3713	3890
			DRAIN09-S-3714	2140
			DRAIN10-S-3715	5070
			DRAIN11-S-3716	1120
			DRAIN12-S-3717	305
			DRAIN13-S-3718	126
			DRAIN14-S-3719	104
			MH42S-2044	28.2 J
			PIPE15S-2054	304
			SUMP19S-2073	348
Pesticides				
4,4'-DDD	μg/Kg	--	C7-NFSS-SL-PIPE1	17 J
			C7-NFSS-SL-PIPE2	24 J
			C7-NFSS-SL-ST6	2.3
			C7-NFSS-SL-SUMP1	100
			C7-NFSS-SL-SUMP2	6.3
			SUMP32S-2075	1.1 JP
4,4'-DDE	μg/Kg	1.38	C7-NFSS-SL-PIPE1	18 J
			C7-NFSS-SL-PIPE2	29 J
			C7-NFSS-SL-ST6	8.5
			C7-NFSS-SL-SUMP1	38 J
			C7-NFSS-SL-SUMP2	11
			DRAIN02-S-3703	43.8 J
			PIPE57S-2064	4.3 P
			PIPE72S-2066	2 JP
			SUMP32S-2075	1.5 J
4,4'-DDT	μg/Kg	2.26	C7-NFSS-SL-PIPE1	54 J
			C7-NFSS-SL-PIPE2	52 J
			C7-NFSS-SL-ST6	10 J
			C7-NFSS-SL-SUMP1	390
			C7-NFSS-SL-SUMP2	48 J
			DRAIN02-S-3703	188
			DRAIN03-S-3705	29200
			DRAIN04-S-3707	60900
Aldrin	μg/Kg	--	C7-NFSS-SL-SUMP1	5 J
			C7-NFSS-SL-SUMP2	3.7 J

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
alpha-BHC	μg/Kg	--	C7-NFSS-SL-PIPE1	2.1 J
			C7-NFSS-SL-SUMP1	5.5 J
alpha-Chlordane	μg/Kg	--	C7-NFSS-SL-PIPE1	63 J
			C7-NFSS-SL-PIPE2	180 J
			C7-NFSS-SL-SUMP1	2 J
beta-BHC	μg/Kg	--	C7-NFSS-SL-SUMP1	4.6 J
			C7-NFSS-SL-SUMP2	1 J
delta-BHC	μg/Kg	--	C7-NFSS-SL-PIPE1	3.9 J
			C7-NFSS-SL-PIPE2	6.5 J
			C7-NFSS-SL-SUMP2	0.95 J
			SUMP32S-2075	0.88
Dieldrin	μg/Kg	0.638	C7-NFSS-SL-PIPE1	130
			C7-NFSS-SL-PIPE2	420
			C7-NFSS-SL-SUMP1	4.1 J
Endosulfan I	μg/Kg	--	C7-NFSS-SL-SUMP1	6.2 J
			C7-NFSS-SL-SUMP2	0.93 J
Endosulfan sulfate	μg/Kg	--	C7-NFSS-SL-SUMP1	39 J
			C7-NFSS-SL-SUMP2	14 J
Endrin	μg/Kg	--	C7-NFSS-SL-ST6	8.9 J
			C7-NFSS-SL-ST9	1.3 J
			C7-NFSS-SL-SUMP1	11 J
Endrin aldehyde	μg/Kg	--	C7-NFSS-SL-PIPE1	19 J
			C7-NFSS-SL-PIPE2	51 J
			C7-NFSS-SL-ST6	49
			C7-NFSS-SL-ST9	2.6 J
			C7-NFSS-SL-SUMP1	28 J
			C7-NFSS-SL-SUMP2	160 E
Endrin ketone	μg/Kg	--	C7-NFSS-SL-ST6	21
			C7-NFSS-SL-SUMP1	16 J
			C7-NFSS-SL-SUMP2	80
gamma-BHC (Lindane)	μg/Kg	--	C7-NFSS-SL-SUMP1	3.7 J
			DRAIN14-S-3719	0.954 J
			SUMP32S-2075	0.53 JP
Heptachlor	μg/Kg	--	C7-NFSS-SL-PIPE1	1.5 J
			C7-NFSS-SL-PIPE2	7.7 J
			C7-NFSS-SL-SUMP1	8.5 J
Heptachlor epoxide	μg/Kg	--	C7-NFSS-SL-PIPE1	5.5 J
			C7-NFSS-SL-PIPE2	7.4 J
			C7-NFSS-SL-ST6	11 J
			C7-NFSS-SL-SUMP1	12 J
			C7-NFSS-SL-SUMP2	8.3 J
			SUMP32S-2075	0.44 J
Radionuclides				

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Alpha	pCi/g	22.4	DRAIN03-S-3705	61.6
			DRAIN07-S-3712	34.2
			DRAIN08-S-3713	27.6
			DRAIN10-S-3715	25.3
			MH02S-2002	28.6
			MH03S-2005	63.2
			MH04S-2007	38.9
			MH07S-2012	37.6
			MH07S-3682	39.5
			MH08S-2015	33.7
			MH08S-3684	38.4
			MH09S-2017	86.5
			MH12S-2020	32.4
			MH16S-2026	37.8 J
			MH24S-2031	27.6
			MH30S-2034	23
			MH41S-2042	100
			MH41S-3690	62.6
			MH42S-2044	52.6
			MH43S-2046	162
			MH43S-3688	76.1
			MH44S-2048	86.3
			MH45S-2050	138
			MH45S-3686	115
			MH46S-2053	78.8
			PIPE33S-2059	36.3
			PIPE74S-2068	49.2
			PIPE74S-3692	58.3

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	38.6	DRAIN03-S-3705	52.4
			MH03S-2005	51.1
			MH07S-2012	51.2
			MH07S-3682	51.4
			MH08S-2015	44.6
			MH08S-3684	41.6
			MH09S-2017	70.5
			MH16S-2026	41.6 J
			MH41S-2042	86.1
			MH41S-3690	56.2
			MH42S-2044	48.1
			MH43S-2046	148
			MH43S-3688	78.6
			MH44S-2048	68.5
			MH45S-2050	87.8
			MH45S-3686	87.4
			MH46S-2053	74.1
			PIPE74S-2068	46.9
			PIPE74S-3692	50.8
Cesium-137	pCi/g	0.389	DRAIN03-S-3705	0.461
			MH03S-2005	1.5
			MH04S-2007	0.569
			MH22S-2029	0.63
			MH24S-2031	0.795
			MH29S-2033	0.483
			MH37S-2040	0.424
			MH41S-2042	0.699
			MH41S-3690	1.15
			MH43S-3688	0.783
			MH44S-2048	0.55
			MH46S-2053	0.721
			PIPE33S-2059	0.495
			PIPE57S-2064	0.58
Potassium-40	pCi/g	--	MH08S-2015	24.2
			MH09S-2017	18.3
			SUMP02S-2069	16.1
			SUMP07S-2070	19.4
			SUMP13S-2071	14.7
			SUMP14S-2072	17.3
			SUMP19S-2073	18.6
			SUMP25S-2074	18.7 J
			SUMP32S-2075	18.5
			SUMP35S-2078	19.1

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/g	2.43	MH03S-2005	10.3
			MH04S-2007	3.11
			MH09S-2017	4.84
			MH12S-2020	4.44
			MH41S-2042	3.13
			MH41S-3690	2.74
			MH45S-2050	5.98
			MH45S-3686	6.61
			MH46S-2053	3.18
			PIPE33S-2059	2.48
Radium-228	pCi/g	1.14	MH07S-2012	1.44
			MH07S-3682	1.2
			MH08S-2015	1.25
			MH12S-2020	1.21
Strontium-90	pCi/g	--	DRAIN09-S-3714	0.74
Thorium-228	pCi/g	1.31	MH07S-2012	1.98
			MH07S-3682	1.7
			MH08S-3684	1.47
			MH12S-2020	1.44
			MH45S-3686	1.43
Thorium-230	pCi/g	5.58	MH03S-2005	12.9
			MH04S-2007	7.44
			MH09S-2017	9.8
			MH43S-3688	8.26
			MH45S-2050	8.26
			MH45S-3686	8.44
Thorium-232	pCi/g	1.23	MH12S-2020	1.62
Total Activity	pCi/g	--	MH45S-3686	23.6
Total Uranium	μg/g	6.47	DRAIN03-S-3705	7.21
			DRAIN07-S-3712	17.9
			MH07S-3682	12.9
			MH08S-3684	14.1
			MH41S-3690	24.4
			MH43S-3688	19.5
			MH45S-3686	16.1
			PIPE74S-3692	39.6

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-234	pCi/g	3.57	DRAIN03-S-3705	26.2
			DRAIN04-S-3707	7.42
			DRAIN06-S-3711	5.73
			DRAIN07-S-3712	10.4 J
			DRAIN08-S-3713	9.34 J
			DRAIN09-S-3714	7.96 J
			DRAIN10-S-3715	6.8
			MH03S-2005	8.55
			MH04S-2007	9.03
			MH07S-2012	8.05
			MH07S-3682	13.1
			MH08S-2015	7.26
			MH08S-3684	12.3
			MH09S-2017	31.4
			MH16S-2026	11.4 J
			MH24S-2031	8.11
			MH30S-2034	4.47
			MH33S-2037	9.81
			MH41S-2042	38.8
			MH41S-3690	24.5
			MH42S-2044	9.04
			MH43S-2046	86.2
			MH43S-3688	18.3
			MH44S-2048	36.2
			MH45S-2050	9.76
			MH45S-3686	13.4
			MH46S-2053	16.8
			PIPE74S-2068	22.2
			PIPE74S-3692	45.3
			SUMP07S-2070	3.8

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/g	0.309	DRAIN03-S-3705	6.99
			DRAIN04-S-3707	1.36
			DRAIN06-S-3711	2.01
			DRAIN07-S-3712	0.658
			DRAIN08-S-3713	0.366
			DRAIN09-S-3714	0.388
			DRAIN10-S-3715	0.468
			MH03S-2005	0.413
			MH04S-2007	0.554
			MH07S-2012	0.578
			MH07S-3682	2.16
			MH08S-2015	0.444
			MH08S-3684	0.614
			MH09S-2017	1.47
			MH16S-2026	0.682 J
			MH24S-2031	0.56
			MH30S-2034	0.311
			MH33S-2037	0.42
			MH41S-2042	2.02
			MH41S-3690	3.79
			MH42S-2044	0.327
			MH43S-2046	5.35
			MH43S-3688	1.58
			MH44S-2048	1.86
			MH45S-2050	0.552
			MH45S-3686	1.29
			MH46S-2053	0.837
			PIPE74S-2068	0.8
			PIPE74S-3692	3.59

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-238	pCi/g	3.08	DRAIN03-S-3705	28.5
			DRAIN04-S-3707	6.42
			DRAIN06-S-3711	5.3
			DRAIN07-S-3712	12 J
			DRAIN08-S-3713	9.9 J
			DRAIN09-S-3714	8.54 J
			DRAIN10-S-3715	7.79
			MH03S-2005	7.97
			MH04S-2007	7.91
			MH07S-2012	7.78
			MH07S-3682	11.7
			MH08S-2015	7.24
			MH08S-3684	13
			MH09S-2017	29.8
			MH16S-2026	10.3 J
			MH24S-2031	7.18
			MH30S-2034	3.94
			MH41S-2042	34.1
			MH41S-3690	24.8
			MH42S-2044	9.19
			MH43S-2046	88.9
			MH43S-3688	17.4
			MH44S-2048	33.1
			MH45S-2050	11.2
			MH45S-3686	12.3
			MH46S-2053	17.2
			PIPE74S-2068	20.3
			PIPE74S-3692	45.5
			SUMP07S-2070	4.37
Semivolatile Organics				
2-Methylnaphthalene	μg/Kg	--	DRAIN01-S-3701	629
			MH02S-2002	242
			MH03S-2005	20.4 J
			MH04S-2007	15.8 J
			MH08S-2015	12.9 J
			MH12S-2020	19.8 J
			MH33S-2037	15.6 J
			MH45S-2050	55.8
			MH46S-2053	12.6 J
			PIPE33S-2059	16.1 J
			PIPE47S-2063	60.5
			PIPE57S-2064	67.7
			PIPE63S-2065	23.5 J
			PIPE72S-2066	9.4 J

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
bis(2-Ethylhexyl)phthalate	μg/Kg	31300	DRAIN03-S-3705	31600 J
			DRAIN06-S-3711	36600 BJ
			DRAIN07-S-3712	37900
			DRAIN08-S-3713	39400
			DRAIN09-S-3714	179000
			DRAIN11-S-3716	66800
			DRAIN13-S-3718	50600 J
			MH09S-2017	31600
Butylbenzylphthalate	μg/Kg	--	DRAIN04-S-3707	56100 J
			DRAIN06-S-3711	295000
			DRAIN07-S-3712	2380 J
			DRAIN08-S-3713	1610 J
Carbazole	μg/Kg	--	MH03S-2005	271 J
			MH04S-2007	203 J
			MH45S-2050	158 J
			PIPE33S-2059	251 J
			PIPE57S-2064	10 J
			PIPE63S-2065	196 J
			PIPE72S-2066	146 J
Dibenzofuran	μg/Kg	--	MH02S-2002	74.8 J
			MH03S-2005	64.8 J
			MH12S-2020	11.3 J
			MH46S-2053	21.4 J
			PIPE33S-2059	11.3 J
			PIPE47S-2063	15.1 J
			PIPE57S-2064	20.9 J
			PIPE63S-2065	38.8 J
Di-n-butylphthalate	μg/Kg	--	DRAIN08-S-3713	759 J
			DRAIN10-S-3715	1070 J
			DRAIN11-S-3716	487 J
			DRAIN12-S-3717	412 J
			DRAIN13-S-3718	23200 J
			MH09S-2017	822 J
			PIPE57S-2064	27.8 J
p-Cresol	μg/Kg	--	C7-NFSS-SL-ST9	220 J
Volatile Organics				
1,1-Dichloroethene	μg/Kg	3.46	DRAIN09-S-3714	5.31
2-Butanone	μg/Kg	49.3	DRAIN01-S-3701	64.3
			DRAIN02-S-3703	2660
			DRAIN04-S-3707	1060 J
			PIPE74S-2068	57
			PIPE74S-3692	832

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Acetone	µg/Kg	206	DRAIN01-S-3701	317
			DRAIN02-S-3703	6740
			DRAIN03-S-3705	1790
			DRAIN04-S-3707	1810
			DRAIN06-S-3711	1380
			DRAIN13-S-3718	813
			PIPE74S-3692	2080
Benzene	µg/Kg	--	MH09S-2017	1.7 J
			SUMP13S-2071	0.38 J
Carbon disulfide	µg/Kg	--	DRAIN01-S-3701	7.66 J
			MH08S-2015	2.7 J
			MH09S-2017	84.9
			MH12S-2020	3.5 J
			PIPE74S-2068	19.5 J
			PIPE74S-3692	61.3
cis-1,2-Dichloroethene	µg/Kg	--	DRAIN02-S-3703	413
			DRAIN07-S-3712	22.2
			DRAIN10-S-3715	122 J
			MH22S-2029	2.4
			MH45S-2050	0.99 J
			PIPE74S-3692	9.71
Ethylbenzene	µg/Kg	--	DRAIN01-S-3701	15.5
			DRAIN03-S-3705	138 J
			DRAIN09-S-3714	0.63 J
			DRAIN10-S-3715	1.8
			DRAIN13-S-3718	43.6 J
			PIPE74S-2068	14.4
			PIPE74S-3692	7.95
Methylene chloride	µg/Kg	--	C7-NFSS-SL-PIPE2	680 J
			DRAIN03-S-3705	324 J
			DRAIN13-S-3718	155 J
Tetrachloroethene	µg/Kg	--	DRAIN04-S-3707	210 J
			DRAIN06-S-3711	1000
			DRAIN07-S-3712	56.4
			DRAIN08-S-3713	2.88
			DRAIN09-S-3714	1.51 J
			DRAIN10-S-3715	918
			DRAIN11-S-3716	1.32
			DRAIN12-S-3717	0.345 J
			MH22S-2029	13.5
			MH45S-2050	0.71 J
			PIPE74S-2068	13.1
			PIPE74S-3692	431
			SUMP13S-2071	2.7

* Data qualifier included with concentration value

Table 4-129
Exposure Unit 16
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Toluene	µg/Kg	8.89	DRAIN02-S-3703	56.1 J
			DRAIN03-S-3705	85.3 J
			DRAIN04-S-3707	387
			DRAIN06-S-3711	75.4 J
			DRAIN13-S-3718	37.4 J
			PIPE74S-2068	156
			PIPE74S-3692	62.1
trans-1,2-Dichloroethene	µg/Kg	--	DRAIN02-S-3703	86.9
			DRAIN10-S-3715	1.3 J
Trichloroethene	µg/Kg	--	DRAIN02-S-3703	142
			DRAIN03-S-3705	133 J
			DRAIN04-S-3707	217 J
			DRAIN06-S-3711	104 J
			DRAIN07-S-3712	47
			DRAIN08-S-3713	1.87
			DRAIN10-S-3715	183
			MH22S-2029	4.8
			MH45S-2050	0.93 J
			PIPE74S-3692	28.4
Xylenes (total)	µg/Kg	--	DRAIN01-S-3701	84
			DRAIN03-S-3705	603
			DRAIN04-S-3707	293
			DRAIN06-S-3711	557
			DRAIN08-S-3713	3.88
			DRAIN09-S-3714	2.62
			DRAIN10-S-3715	7.93
			DRAIN13-S-3718	227
			PIPE74S-2068	64
			PIPE74S-3692	12

* Data qualifier included with concentration value

Table 4-130
Exposure Unit 16
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	19100	C7-NFSS-SO-PIPE1	19900
Copper	mg/Kg	49.3	C7-NFSS-SO-PIPE1	74.6
			C7-NFSS-SO-PIPE2	67.5
Lithium	mg/Kg	36.8	C7-NFSS-SO-PIPE1	37.4
Thallium	mg/Kg	--	C7-NFSS-SO-PIPE2	0.13 J
PAHs				
Anthracene	μg/Kg	8	C7-NFSS-SO-PIPE2	33 J
Fluorene	μg/Kg	2.9	C7-NFSS-SO-PIPE2	30 J
Naphthalene	μg/Kg	--	C7-NFSS-SO-PIPE2	110 J
Pesticides				
4,4'-DDE	μg/Kg	--	C7-NFSS-SO-PIPE2	13 J
alpha-Chlordane	μg/Kg	--	C7-NFSS-SO-PIPE1	63 J
			C7-NFSS-SO-PIPE2	450 EP
delta-BHC	μg/Kg	--	C7-NFSS-SO-PIPE2	2.3 J
Dieldrin	μg/Kg	--	C7-NFSS-SO-PIPE1	130 J
			C7-NFSS-SO-PIPE2	850 E
Heptachlor	μg/Kg	--	C7-NFSS-SO-PIPE1	1.6 J
			C7-NFSS-SO-PIPE2	2.9 J
Heptachlor epoxide	μg/Kg	--	C7-NFSS-SO-PIPE1	0.86 J
Methoxychlor	μg/Kg	--	C7-NFSS-SO-PIPE2	23
Radionuclides				
Beta	pCi/g	28.9	SB-PIPE74-7.0-3657	29.8
Thorium-232	pCi/g	1.24	SB-PIPE74-7.0-3657	1.39
Uranium-235	pCi/g	0.0847	SB-PIPE74-7.0-3657	0.313
Volatile Organics				
Acetone	μg/Kg	--	SB-PIPE74-7.0-3657	7.42

* Data qualifier included with concentration value

Table 4-131
Exposure Unit 9
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	13	7580 E*	24300	13
Antimony	mg/Kg	13	0.504 BN	0.696 BN	3
Arsenic	mg/Kg	13	1.9 N*	5.39 E	13
Barium	mg/Kg	13	53.1 *	229 *	13
Beryllium	mg/Kg	13	0.408 BE*	1.15	13
Boron	mg/Kg	13	2.86 B	14.9	13
Cadmium	mg/Kg	13	0.064 B	0.32 B	11
Calcium	mg/Kg	13	2360	62100 *	13
Chromium	mg/Kg	13	10.8 *N	28.9	13
Cobalt	mg/Kg	13	4.38 *	12.1	13
Copper	mg/Kg	13	17.2	34.8	13
Iron	mg/Kg	13	14700 E*	29800	13
Lead	mg/Kg	13	4.4 E	47.5 E	13
Lithium	mg/Kg	13	12.1	28.9	13
Magnesium	mg/Kg	13	1860	25900 *	13
Manganese	mg/Kg	13	287	1590 *	13
Mercury	mg/Kg	13	0.01 B*	0.048	13
Nickel	mg/Kg	13	10.7 *	28.7	13
Potassium	mg/Kg	13	666 *	3350 N	13
Selenium	mg/Kg	13	0.314 B	1.76	12
Silver	mg/Kg	13	0.048 BE	0.716 E	12
Sodium	mg/Kg	13	54.4 E*	196 E*	13
Thallium	mg/Kg	13	0.056 B	0.138	12
Vanadium	mg/Kg	13	21.1 E*N	46.8	13
Zinc	mg/Kg	13	17.5	81.8	13
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	3	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	3	--	--	0
2,4-Dinitrotoluene	μg/Kg	6	--	--	0
2,6-Dinitrotoluene	μg/Kg	6	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	3	--	--	0
2-Nitrotoluene	μg/Kg	3	--	--	0
3-Dinitrobenzene	μg/Kg	3	--	--	0
3-Nitrotoluene	μg/Kg	3	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	3	--	--	0
4-Nitrotoluene	μg/Kg	3	--	--	0
HMX	μg/Kg	3	--	--	0
Nitrobenzene	μg/Kg	6	--	--	0
RDX	μg/Kg	3	--	--	0
Tetryl	μg/Kg	3	--	--	0
PAHs					
Acenaphthene	μg/Kg	6	--	--	0
Acenaphthylene	μg/Kg	6	--	--	0

* Data qualifier included with concentration value

Table 4-131
Exposure Unit 9
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	4	--	--	0
Benzo(a)anthracene	µg/Kg	4	0.571 J	0.571 J	1
Benzo(a)pyrene	µg/Kg	4	--	--	0
Benzo(b)fluoranthene	µg/Kg	4	--	--	0
Benzo(g,h,i)perylene	µg/Kg	4	--	--	0
Benzo(k)fluoranthene	µg/Kg	4	--	--	0
Chrysene	µg/Kg	4	0.913 J	0.913 J	1
Dibenzo(a,h)anthracene	µg/Kg	4	--	--	0
Fluoranthene	µg/Kg	4	0.747 JP	1.46 J	2
Fluorene	µg/Kg	6	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	4	--	--	0
Naphthalene	µg/Kg	6	--	--	0
Phenanthrene	µg/Kg	4	2.02 J	2.02 J	1
Pyrene	µg/Kg	4	1.79 JP	1.79 JP	1
PCBs					
Aroclor-1016	µg/Kg	13	--	--	0
Aroclor-1221	µg/Kg	13	--	--	0
Aroclor-1232	µg/Kg	13	--	--	0
Aroclor-1242	µg/Kg	13	--	--	0
Aroclor-1248	µg/Kg	13	--	--	0
Aroclor-1254	µg/Kg	13	2.9 J	2.9 J	1
Aroclor-1260	µg/Kg	13	12.7 P	12.7 P	1
Pesticides					
4,4'-DDD	µg/Kg	3	--	--	0
4,4'-DDE	µg/Kg	3	--	--	0
4,4'-DDT	µg/Kg	3	0.739 J	0.739 J	1
Aldrin	µg/Kg	3	--	--	0
alpha-BHC	µg/Kg	3	--	--	0
alpha-Chlordane	µg/Kg	3	--	--	0
beta-BHC	µg/Kg	3	--	--	0
delta-BHC	µg/Kg	3	--	--	0
Dieldrin	µg/Kg	3	--	--	0
Endosulfan I	µg/Kg	3	--	--	0
Endosulfan II	µg/Kg	3	--	--	0
Endosulfan sulfate	µg/Kg	3	--	--	0
Endrin	µg/Kg	3	--	--	0
Endrin aldehyde	µg/Kg	3	--	--	0
Endrin ketone	µg/Kg	3	--	--	0
gamma-BHC (Lindane)	µg/Kg	3	--	--	0
gamma-Chlordane	µg/Kg	3	--	--	0
Heptachlor	µg/Kg	3	--	--	0
Heptachlor epoxide	µg/Kg	3	--	--	0
Methoxychlor	µg/Kg	3	--	--	0
Toxaphene	µg/Kg	3	--	--	0

* Data qualifier included with concentration value

Table 4-131
Exposure Unit 9
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	21	1.08	1.08	1
Alpha	pCi/g	21	5.41	83.3	21
Americium-241	pCi/g	21	--	--	0
Beta	pCi/g	21	12.9	49.7	21
Cesium-137	pCi/g	21	0.0369	0.234	10
Cobalt-60	pCi/g	21	--	--	0
Potassium-40	pCi/g	18	9.08	28.4	18
Protactinium-231	pCi/g	21	--	--	0
Radium-226	pCi/g	21	0.378	17.8	21
Radium-228	pCi/g	21	0.603	1.5	20
Thorium-228	pCi/g	21	0.495	1.76	21
Thorium-230	pCi/g	21	0.54	30.5	21
Thorium-232	pCi/g	21	0.413	1.52	21
Total Uranium	μg/g	21	0.878	13.5	21
Uranium-234	pCi/g	21	0.37	2.95	21
Uranium-235	pCi/g	21	0.154	0.214	2
Uranium-238	pCi/g	21	0.27	2.95	21
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	6	--	--	0
1,2-Dichlorobenzene	μg/Kg	6	--	--	0
1,3-Dichlorobenzene	μg/Kg	6	--	--	0
1,4-Dichlorobenzene	μg/Kg	6	--	--	0
2,4,5-Trichlorophenol	μg/Kg	6	--	--	0
2,4,6-Trichlorophenol	μg/Kg	6	--	--	0
2,4-Dichlorophenol	μg/Kg	6	--	--	0
2,4-Dimethylphenol	μg/Kg	6	--	--	0
2,4-Dinitrophenol	μg/Kg	6	--	--	0
2-Chloronaphthalene	μg/Kg	6	--	--	0
2-Chlorophenol	μg/Kg	6	21.7 J	21.7 J	1
2-Methyl-4,6-dinitrophenol	μg/Kg	4	--	--	0
2-Methylnaphthalene	μg/Kg	6	--	--	0
2-Nitroaniline	μg/Kg	6	--	--	0
2-Nitrophenol	μg/Kg	6	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	4	--	--	0
3-Nitroaniline	μg/Kg	6	--	--	0
4-Bromophenylphenylether	μg/Kg	4	--	--	0
4-Chloro-3-methylphenol	μg/Kg	6	--	--	0
4-Chloroaniline	μg/Kg	6	--	--	0
4-Chlorophenylphenylether	μg/Kg	4	--	--	0
4-Nitroaniline	μg/Kg	4	--	--	0
4-Nitrophenol	μg/Kg	6	--	--	0
Benzoic Acid	μg/Kg	3	--	--	0
bis(2-Chloroethoxy)methane	μg/Kg	6	--	--	0

* Data qualifier included with concentration value

Table 4-131
Exposure Unit 9
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethyl)ether	µg/Kg	6	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	6	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	4	--	--	0
Butylbenzylphthalate	µg/Kg	4	--	--	0
Carbazole	µg/Kg	4	--	--	0
Dibenzofuran	µg/Kg	6	--	--	0
Diethylphthalate	µg/Kg	6	--	--	0
Dimethylphthalate	µg/Kg	6	--	--	0
Di-n-butylphthalate	µg/Kg	4	--	--	0
Di-n-octylphthalate	µg/Kg	4	--	--	0
Diphenylamine	µg/Kg	1	--	--	0
Hexachlorobenzene	µg/Kg	4	--	--	0
Hexachlorobutadiene	µg/Kg	6	--	--	0
Hexachlorocyclopentadiene	µg/Kg	6	--	--	0
Hexachloroethane	µg/Kg	6	--	--	0
Isophorone	µg/Kg	6	--	--	0
m,p-Cresols	µg/Kg	6	19.7 J	19.7 J	1
N-Nitroso-di-n-propylamine	µg/Kg	6	--	--	0
N-Nitrosodiphenylamine	µg/Kg	3	--	--	0
o-Cresol	µg/Kg	6	--	--	0
Pentachlorophenol	µg/Kg	4	--	--	0
Phenol	µg/Kg	6	28.1 J	28.1 J	1
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	13	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	13	--	--	0
1,1,2-Trichloroethane	µg/Kg	13	--	--	0
1,1-Dichloroethane	µg/Kg	13	--	--	0
1,1-Dichloroethene	µg/Kg	13	8.4	8.4	1
1,2-Dichloroethane	µg/Kg	13	--	--	0
1,2-Dichloropropane	µg/Kg	13	--	--	0
2-Butanone	µg/Kg	13	--	--	0
2-Hexanone	µg/Kg	13	--	--	0
4-Methyl-2-pentanone	µg/Kg	13	--	--	0
Acetone	µg/Kg	13	--	--	0
Benzene	µg/Kg	13	0.15 J	0.52 J	2
Bromodichloromethane	µg/Kg	13	--	--	0
Bromoform	µg/Kg	13	--	--	0
Bromomethane	µg/Kg	13	--	--	0
Carbon disulfide	µg/Kg	13	--	--	0
Carbon tetrachloride	µg/Kg	13	--	--	0
Chlorobenzene	µg/Kg	13	--	--	0
Chloroethane	µg/Kg	13	--	--	0
Chloroform	µg/Kg	13	--	--	0
Chloromethane	µg/Kg	13	--	--	0

* Data qualifier included with concentration value

Table 4-131
Exposure Unit 9
Surface Soil (0-0.5') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
cis-1,3-Dichloropropene	μg/Kg	13	--	--	0
Dibromochloromethane	μg/Kg	13	--	--	0
Ethylbenzene	μg/Kg	13	--	--	0
Methylene chloride	μg/Kg	13	--	--	0
Styrene	μg/Kg	13	--	--	0
Tetrachloroethene	μg/Kg	13	--	--	0
Toluene	μg/Kg	13	0.38 J	0.38 J	1
trans-1,3-Dichloropropene	μg/Kg	13	--	--	0
Trichloroethene	μg/Kg	13	--	--	0
Vinyl chloride	μg/Kg	13	--	--	0
Xylenes (total)	μg/Kg	13	--	--	0

* Data qualifier included with concentration value

Table 4-132
Exposure Unit 9
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	18400	SS903-2083	24300
Beryllium	mg/Kg	1	SS903-2083	1.15
Boron	mg/Kg	10.1	SS904-2087	14.9
			SS905-2089	10.9
			SS906-2091	11.2
			SS907-2093	10.2
			SS908-2095	12.1
			SS909-2097	10.4 *
			SS910-2099	12.6 *
Calcium	mg/Kg	45200	SS910-2099	62100 *
Chromium	mg/Kg	24.3	SS903-2083	28.9
Copper	mg/Kg	34.7	SS903-2083	34.8
Lithium	mg/Kg	27.9	SS903-2083	28.9
			SS907-2093	28.1 N
Magnesium	mg/Kg	10200	SS910-2099	25900 *
			SS-EU093-3342	11000 *
Potassium	mg/Kg	1820	SS903-2083	2790 N
			SS904-2087	3350 N
			SS905-2089	2320 N
			SS906-2091	2730 N
			SS907-2093	2550 N
			SS908-2095	2920 N
			SS909-2097	2590 *
			SS910-2099	2710 *
			SS-EU092-3341	2310 *
			SS-EU093-3342	2470 *
Selenium	mg/Kg	0.37	SS901-2079	0.515 BN
			SS902-2081	0.468 BN
			SS903-2083	1.12
			SS905-2089	1.76
			SS906-2091	1.01
			SS907-2093	0.534 BN
			SS908-2095	1.21
			SS909-2097	0.454 B
			SS910-2099	0.591 B
			SS-EU092-3341	0.572 B
			SS-EU093-3342	0.56 B
Silver	mg/Kg	0.27	SS905-2089	0.716 E

* Data qualifier included with concentration value

Table 4-132
Exposure Unit 9
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SS901-2079	0.056 B
			SS902-2081	0.124
			SS903-2083	0.106 B
			SS905-2089	0.108 B
			SS906-2091	0.098 B
			SS907-2093	0.138
			SS908-2095	0.131
			SS909-2097	0.123
			SS910-2099	0.128
			SS-EU091-3340	0.061 BE
			SS-EU092-3341	0.095 BE
			SS-EU093-3342	0.122 E
Vanadium	mg/Kg	34	SS903-2083	46.8
			SS907-2093	35.4
PCBs				
Aroclor-1254	µg/Kg	--	SS-EU093-3342	2.9 J
Aroclor-1260	µg/Kg	--	SS908-2095	12.7 P
Pesticides				
4,4'-DDT	µg/Kg	--	SS-EU093-3342	0.739 J
Radionuclides				
Alpha	pCi/g	--	SD911-2101	18.5
			SD912-2103	18.7
			SD914-2108	24.5
			SD915-2109	14.4
			SD916-2113	11.1
			SD917-2115	10.4
			SD918-2117	7.61
			SS901-2079	8.57
			SS902-2081	11.8
			SS903-2083	13.8
			SS904-2087	13.3 J
			SS905-2089	17
			SS906-2091	15.7
			SS907-2093	17.9
			SS908-2095	12.5
			SS909-2097	16
			SS910-2099	12.4
			SS913-2105	83.3
			SS-EU091-3340	7.86
			SS-EU092-3341	5.41
			SS-EU093-3342	7.4

* Data qualifier included with concentration value

Table 4-132
Exposure Unit 9
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	--	SD911-2101	32.8
			SD912-2103	28.9
			SD914-2108	43.4
			SD915-2109	28.9
			SD916-2113	28.2
			SD917-2115	23.3
			SD918-2117	21.1
			SS901-2079	16.6
			SS902-2081	20.8
			SS903-2083	28
			SS904-2087	23.8 J
			SS905-2089	31.4
			SS906-2091	23.3
			SS907-2093	33.2
			SS908-2095	28.4
			SS909-2097	31.3
			SS910-2099	24.1
			SS913-2105	49.7
			SS-EU091-3340	13.3
			SS-EU092-3341	12.9
			SS-EU093-3342	17.7
Radium-226	pCi/g	0.921	SD911-2101	0.968
			SD914-2108	0.985
			SD915-2109	0.944
			SS904-2087	0.981
			SS905-2089	2.07
			SS906-2091	1.84
			SS913-2105	17.8
Radium-228	pCi/g	1.26	SD911-2101	1.5
			SS903-2083	1.33
Thorium-230	pCi/g	1.6	SD915-2109	1.65
			SS904-2087	1.61 J
			SS905-2089	2.14
			SS906-2091	3.1
			SS913-2105	30.5
Thorium-232	pCi/g	1.24	SD914-2108	1.46
			SS905-2089	1.52
Total Uranium	μg/g	3.94	SD911-2101	4.45
			SD912-2103	4.36
			SS903-2083	4.01
			SS905-2089	13.5
			SS913-2105	4.07
Uranium-234	pCi/g	1.68	SS905-2089	2.95

* Data qualifier included with concentration value

Table 4-132
Exposure Unit 9
Surface Soil (0-0.5') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Uranium-235	pCi/g	0.0847	SD917-2115	0.154
			SS905-2089	0.214
Uranium-238	pCi/g	1.36	SD912-2103	1.39
			SD914-2108	1.5
			SS905-2089	2.95
			SS913-2105	1.66
Semivolatile Organics				
2-Chlorophenol	μg/Kg	--	SS907-2093	21.7 J
m,p-Cresols	μg/Kg	--	SS907-2093	19.7 J
Phenol	μg/Kg	--	SS907-2093	28.1 J
Volatile Organics				
1,1-Dichloroethene	μg/Kg	--	SS910-2099	8.4
Benzene	μg/Kg	--	SS901-2079	0.15 J
			SS905-2089	0.52 J
Toluene	μg/Kg	--	SS905-2089	0.38 J

* Data qualifier included with concentration value

Table 4-133
Exposure Unit 9
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Metals					
Aluminum	mg/Kg	26	4960 E*	24300	26
Antimony	mg/Kg	26	0.504 BN	0.894 BN	4
Arsenic	mg/Kg	26	1.16 NE	5.39 E	26
Barium	mg/Kg	26	21.8 *	234 *	26
Beryllium	mg/Kg	26	0.252 BE*	1.15	26
Boron	mg/Kg	26	2.86 B	14.9	26
Cadmium	mg/Kg	26	0.064 B	0.32 B	23
Calcium	mg/Kg	26	2360	62100 *	26
Chromium	mg/Kg	26	7.2	28.9	26
Cobalt	mg/Kg	26	4.07	14.4 *	26
Copper	mg/Kg	26	11.4	53.3 J	26
Iron	mg/Kg	26	11300 E*	29800	26
Lead	mg/Kg	26	3.81 N	47.5 E	26
Lithium	mg/Kg	26	8.47 BN	28.9	26
Magnesium	mg/Kg	26	1860	25900 *	26
Manganese	mg/Kg	26	115	1740 J	26
Mercury	mg/Kg	26	0.006 B*	0.048	26
Nickel	mg/Kg	26	9.66	28.7	26
Potassium	mg/Kg	26	666 *	3560 N	26
Selenium	mg/Kg	26	0.205 BN	1.76	25
Silver	mg/Kg	26	0.039 BE	0.716 E	25
Sodium	mg/Kg	26	46.9 J	304 E*	26
Thallium	mg/Kg	26	0.04 B	0.164 E	25
Vanadium	mg/Kg	26	12.9 E*N	46.8	26
Zinc	mg/Kg	26	17.5	81.8	26
Nitroaromatics					
1,3,5-Trinitrobenzene	μg/Kg	6	--	--	0
2,4,6-Trinitrotoluene	μg/Kg	6	--	--	0
2,4-Dinitrotoluene	μg/Kg	12	--	--	0
2,6-Dinitrotoluene	μg/Kg	12	--	--	0
2-Amino-4,6-dinitrotoluene	μg/Kg	6	--	--	0
2-Nitrotoluene	μg/Kg	6	--	--	0
3-Dinitrobenzene	μg/Kg	6	--	--	0
3-Nitrotoluene	μg/Kg	6	--	--	0
4-Amino-2,6-dinitrotoluene	μg/Kg	6	--	--	0
4-Nitrotoluene	μg/Kg	6	--	--	0
HMX	μg/Kg	6	--	--	0
Nitrobenzene	μg/Kg	12	--	--	0
RDX	μg/Kg	6	--	--	0
Tetryl	μg/Kg	6	--	--	0
PAHs					
Acenaphthene	μg/Kg	12	--	--	0
Acenaphthylene	μg/Kg	12	--	--	0

* Data qualifier included with concentration value

Table 4-133
Exposure Unit 9
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Anthracene	µg/Kg	8	--	--	0
Benzo(a)anthracene	µg/Kg	8	0.571 J	0.571 J	1
Benzo(a)pyrene	µg/Kg	8	--	--	0
Benzo(b)fluoranthene	µg/Kg	8	--	--	0
Benzo(g,h,i)perylene	µg/Kg	8	--	--	0
Benzo(k)fluoranthene	µg/Kg	8	--	--	0
Chrysene	µg/Kg	8	0.913 J	0.913 J	1
Dibenzo(a,h)anthracene	µg/Kg	8	--	--	0
Fluoranthene	µg/Kg	8	0.747 JP	1.46 J	2
Fluorene	µg/Kg	12	--	--	0
Indeno(1,2,3-cd)pyrene	µg/Kg	8	--	--	0
Naphthalene	µg/Kg	12	--	--	0
Phenanthrene	µg/Kg	8	2.02 J	2.02 J	1
Pyrene	µg/Kg	8	1.79 JP	1.79 JP	1
PCBs					
Aroclor-1016	µg/Kg	26	--	--	0
Aroclor-1221	µg/Kg	26	--	--	0
Aroclor-1232	µg/Kg	26	--	--	0
Aroclor-1242	µg/Kg	26	--	--	0
Aroclor-1248	µg/Kg	26	--	--	0
Aroclor-1254	µg/Kg	26	2.9 J	2.9 J	1
Aroclor-1260	µg/Kg	26	12.7 P	12.7 P	1
Pesticides					
4,4'-DDD	µg/Kg	6	--	--	0
4,4'-DDE	µg/Kg	6	--	--	0
4,4'-DDT	µg/Kg	6	0.739 J	2.1	3
Aldrin	µg/Kg	6	--	--	0
alpha-BHC	µg/Kg	6	--	--	0
alpha-Chlordane	µg/Kg	6	--	--	0
beta-BHC	µg/Kg	6	--	--	0
delta-BHC	µg/Kg	6	--	--	0
Dieldrin	µg/Kg	6	--	--	0
Endosulfan I	µg/Kg	6	--	--	0
Endosulfan II	µg/Kg	6	--	--	0
Endosulfan sulfate	µg/Kg	6	--	--	0
Endrin	µg/Kg	6	--	--	0
Endrin aldehyde	µg/Kg	6	--	--	0
Endrin ketone	µg/Kg	6	--	--	0
gamma-BHC (Lindane)	µg/Kg	6	--	--	0
gamma-Chlordane	µg/Kg	6	--	--	0
Heptachlor	µg/Kg	6	--	--	0
Heptachlor epoxide	µg/Kg	6	--	--	0
Methoxychlor	µg/Kg	6	--	--	0
Toxaphene	µg/Kg	6	--	--	0

* Data qualifier included with concentration value

Table 4-133
Exposure Unit 9
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	35	1.08	1.08	1
Alpha	pCi/g	35	5.41	83.3	35
Americium-241	pCi/g	35	--	--	0
Beta	pCi/g	35	11.5	49.7	35
Cesium-137	pCi/g	35	0.0193 J	0.331	13
Cobalt-60	pCi/g	35	--	--	0
Potassium-40	pCi/g	29	9.08	28.4	29
Protactinium-231	pCi/g	35	--	--	0
Radium-226	pCi/g	35	0.378	17.8	35
Radium-228	pCi/g	35	0.486	1.5	34
Thorium-228	pCi/g	35	0.495	1.76	34
Thorium-230	pCi/g	35	0.473 J	30.5	34
Thorium-232	pCi/g	35	0.382 J	1.69 J	35
Total Activity	pCi/g	5	--	--	0
Total Uranium	μg/g	35	0.576	13.5	35
Uranium-234	pCi/g	35	0.37	2.95	35
Uranium-235	pCi/g	35	0.15	0.214	3
Uranium-238	pCi/g	35	0.27	2.95	35
Semivolatile Organics					
1,2,4-Trichlorobenzene	μg/Kg	12	--	--	0
1,2-Dichlorobenzene	μg/Kg	12	--	--	0
1,3-Dichlorobenzene	μg/Kg	12	--	--	0
1,4-Dichlorobenzene	μg/Kg	12	--	--	0
2,4,5-Trichlorophenol	μg/Kg	12	--	--	0
2,4,6-Trichlorophenol	μg/Kg	12	--	--	0
2,4-Dichlorophenol	μg/Kg	12	--	--	0
2,4-Dimethylphenol	μg/Kg	12	--	--	0
2,4-Dinitrophenol	μg/Kg	12	--	--	0
2-Chloronaphthalene	μg/Kg	12	--	--	0
2-Chlorophenol	μg/Kg	12	21.7 J	21.7 J	1
2-Methyl-4,6-dinitrophenol	μg/Kg	8	--	--	0
2-Methylnaphthalene	μg/Kg	12	--	--	0
2-Nitroaniline	μg/Kg	12	--	--	0
2-Nitrophenol	μg/Kg	12	--	--	0
3,3'-Dichlorobenzidine	μg/Kg	8	--	--	0
3-Nitroaniline	μg/Kg	12	--	--	0
4-Bromophenylphenylether	μg/Kg	8	--	--	0
4-Chloro-3-methylphenol	μg/Kg	12	--	--	0
4-Chloroaniline	μg/Kg	12	--	--	0
4-Chlorophenylphenylether	μg/Kg	8	--	--	0
4-Nitroaniline	μg/Kg	8	--	--	0
4-Nitrophenol	μg/Kg	12	--	--	0
Benzoic Acid	μg/Kg	6	--	--	0

* Data qualifier included with concentration value

Table 4-133
Exposure Unit 9
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
bis(2-Chloroethoxy)methane	µg/Kg	12	--	--	0
bis(2-Chloroethyl)ether	µg/Kg	12	--	--	0
bis(2-Chloroisopropyl)ether	µg/Kg	12	--	--	0
bis(2-Ethylhexyl)phthalate	µg/Kg	8	--	--	0
Butylbenzylphthalate	µg/Kg	8	--	--	0
Carbazole	µg/Kg	8	--	--	0
Dibenzofuran	µg/Kg	12	--	--	0
Diethylphthalate	µg/Kg	12	--	--	0
Dimethylphthalate	µg/Kg	12	--	--	0
Di-n-butylphthalate	µg/Kg	8	--	--	0
Di-n-octylphthalate	µg/Kg	8	--	--	0
Diphenylamine	µg/Kg	2	--	--	0
Hexachlorobenzene	µg/Kg	8	--	--	0
Hexachlorobutadiene	µg/Kg	12	--	--	0
Hexachlorocyclopentadiene	µg/Kg	12	--	--	0
Hexachloroethane	µg/Kg	12	--	--	0
Isophorone	µg/Kg	12	--	--	0
m,p-Cresols	µg/Kg	12	19.7 J	19.7 J	1
N-Nitroso-di-n-propylamine	µg/Kg	12	--	--	0
N-Nitrosodiphenylamine	µg/Kg	6	--	--	0
o-Cresol	µg/Kg	12	--	--	0
Pentachlorophenol	µg/Kg	8	--	--	0
PETN	µg/Kg	1	--	--	0
Phenol	µg/Kg	12	28.1 J	28.1 J	1
Volatile Organics					
1,1,1-Trichloroethane	µg/Kg	26	--	--	0
1,1,2,2-Tetrachloroethane	µg/Kg	26	--	--	0
1,1,2-Trichloroethane	µg/Kg	26	--	--	0
1,1-Dichloroethane	µg/Kg	26	--	--	0
1,1-Dichloroethene	µg/Kg	26	8.4	8.4	1
1,2-Dichloroethane	µg/Kg	26	--	--	0
1,2-Dichloropropane	µg/Kg	26	--	--	0
2-Butanone	µg/Kg	26	--	--	0
2-Hexanone	µg/Kg	26	--	--	0
4-Methyl-2-pentanone	µg/Kg	26	--	--	0
Acetone	µg/Kg	26	--	--	0
Benzene	µg/Kg	26	0.15 J	0.52 J	2
Bromodichloromethane	µg/Kg	26	--	--	0
Bromoform	µg/Kg	26	--	--	0
Bromomethane	µg/Kg	26	--	--	0
Carbon disulfide	µg/Kg	26	--	--	0
Carbon tetrachloride	µg/Kg	26	--	--	0
Chlorobenzene	µg/Kg	26	--	--	0
Chloroethane	µg/Kg	26	--	--	0

* Data qualifier included with concentration value

Table 4-133
Exposure Unit 9
Subsurface Soil (0-10') Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Chloroform	µg/Kg	26	0.36 J	0.36 J	1
Chloromethane	µg/Kg	26	--	--	0
cis-1,2-Dichloroethene	µg/Kg	26	--	--	0
cis-1,3-Dichloropropene	µg/Kg	26	--	--	0
Dibromochloromethane	µg/Kg	26	--	--	0
Ethylbenzene	µg/Kg	26	--	--	0
Methylene chloride	µg/Kg	26	--	--	0
Styrene	µg/Kg	26	--	--	0
Tetrachloroethene	µg/Kg	26	--	--	0
Toluene	µg/Kg	26	0.2 J	0.58 J	5
trans-1,2-Dichloroethene	µg/Kg	26	--	--	0
trans-1,3-Dichloropropene	µg/Kg	26	--	--	0
Trichloroethene	µg/Kg	26	--	--	0
Vinyl chloride	µg/Kg	26	--	--	0
Xylenes (total)	µg/Kg	26	--	--	0

* Data qualifier included with concentration value

Table 4-134
Exposure Unit 9
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Metals				
Aluminum	mg/Kg	19100	SB903-2085-2.0	19800
			SS903-2083	24300
Beryllium	mg/Kg	1	SS903-2083	1.15
Boron	mg/Kg	10.1	SB902-2082-2.0	12.2
			SB903-2085-2.0	13.7
			SB904-2088-3.0	10.4
			SB905-2090-2.0	14.7
			SB-EU093-3322-2.0	12.6 E*N
			SS904-2087	14.9
			SS905-2089	10.9
			SS906-2091	11.2
			SS907-2093	10.2
			SS908-2095	12.1
			SS909-2097	10.4 *
			SS910-2099	12.6 *
Chromium	mg/Kg	25.8	SS903-2083	28.9
Lead	mg/Kg	37.6	SS906-2091	47.5 E
Magnesium	mg/Kg	14800	SS910-2099	25900 *
Potassium	mg/Kg	2860	SB902-2082-2.0	3070 N
			SB903-2085-2.0	3560 N
			SB-EU093-3322-2.0	3270 *
			SS904-2087	3350 N
			SS908-2095	2920 N

* Data qualifier included with concentration value

Table 4-134
Exposure Unit 9
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Selenium	mg/Kg	0.37	SB902-2082-2.0	0.531 BN
			SB903-2085-2.0	1.15
			SB904-2088-3.0	0.777
			SB905-2090-2.0	0.987
			SB906-2092-3.0	0.623 B
			SB907-2094-2.5	0.429 BN
			SB908-2096-2.5	0.62 B
			SB909-2098-2.0	0.636 B
			SB910-2100-2.0	0.411 B
			SB-EU091-3320-2.0	0.681 J
			SB-EU093-3322-2.0	0.431 B
			SS901-2079	0.515 BN
			SS902-2081	0.468 BN
			SS903-2083	1.12
			SS905-2089	1.76
			SS906-2091	1.01
			SS907-2093	0.534 BN
			SS908-2095	1.21
			SS909-2097	0.454 B
			SS910-2099	0.591 B
			SS-EU092-3341	0.572 B
			SS-EU093-3342	0.56 B
Silver	mg/Kg	0.27	SS905-2089	0.716 E

* Data qualifier included with concentration value

Table 4-134
Exposure Unit 9
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Thallium	mg/Kg	--	SB901-2080-2.0	0.04 B
			SB902-2082-2.0	0.143
			SB903-2085-2.0	0.144
			SB904-2088-3.0	0.064 B
			SB905-2090-2.0	0.107 B
			SB906-2092-3.0	0.067 B
			SB907-2094-2.5	0.119
			SB908-2096-2.5	0.154
			SB909-2098-2.0	0.117
			SB910-2100-2.0	0.141
			SB-EU091-3320-2.0	0.083 J
			SB-EU092-3321-2.0	0.067 BE
			SB-EU093-3322-2.0	0.164 E
			SS901-2079	0.056 B
			SS902-2081	0.124
			SS903-2083	0.106 B
			SS905-2089	0.108 B
			SS906-2091	0.098 B
			SS907-2093	0.138
			SS908-2095	0.131
			SS909-2097	0.123
			SS910-2099	0.128
			SS-EU091-3340	0.061 BE
			SS-EU092-3341	0.095 BE
			SS-EU093-3342	0.122 E
Vanadium	mg/Kg	35.2	SB902-2082-2.0	35.9
			SB903-2085-2.0	37.1
			SS903-2083	46.8
			SS907-2093	35.4
Pesticides				
4,4'-DDT	μg/Kg	--	SB-EU092-3321-2.0	2.1
			SB-EU093-3322-2.0	1.14 J
			SS-EU093-3342	0.739 J
Radionuclides				
Alpha	pCi/g	15.1	SB902-2082-2.0	16.9
			SB905-2090-2.0	17.3
			SD911-2101	18.5
			SD912-2103	18.7
			SD914-2108	24.5
			SS905-2089	17
			SS906-2091	15.7
			SS907-2093	17.9
			SS909-2097	16
			SS913-2105	83.3

* Data qualifier included with concentration value

Table 4-134
Exposure Unit 9
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Beta	pCi/g	28.9	SB902-2082-2.0	31.5
			SB903-2085-2.0	30.7
			SB913-2474-1.5	29.5
			SD911-2101	32.8
			SD914-2108	43.4
			SS905-2089	31.4
			SS907-2093	33.2
			SS909-2097	31.3
			SS913-2105	49.7
Radium-226	pCi/g	1.2	SB905-2090-2.0	1.68
			SS905-2089	2.07
			SS906-2091	1.84
			SS913-2105	17.8
Radium-228	pCi/g	1.26	SD911-2101	1.5
			SS903-2083	1.33
Thorium-230	pCi/g	1.39	SB905-2090-2.0	2.1
			SB-EU093-3322-2.0	1.51
			SD915-2109	1.65
			SS904-2087	1.61 J
			SS905-2089	2.14
			SS906-2091	3.1
			SS913-2105	30.5
Thorium-232	pCi/g	1.24	SB913-2474-1.5	1.39
			SB-EU091-3320-2.0	1.69 J
			SD914-2108	1.46
			SS905-2089	1.52
Total Uranium	μg/g	3.58	SB905-2090-2.0	12.2
			SB913-2474-1.5	3.67
			SD911-2101	4.45
			SD912-2103	4.36
			SS903-2083	4.01
			SS905-2089	13.5
			SS913-2105	4.07
Uranium-234	pCi/g	1.66	SB913-2474-1.5	1.72
			SS905-2089	2.95
Uranium-235	pCi/g	0.0847	SB908-2096-2.5	0.15
			SD917-2115	0.154
			SS905-2089	0.214
Uranium-238	pCi/g	1.34	SB913-2474-1.5	1.77
			SB-EU093-3322-2.0	1.39
			SD912-2103	1.39
			SD914-2108	1.5
			SS905-2089	2.95
			SS913-2105	1.66

* Data qualifier included with concentration value

Table 4-134
Exposure Unit 9
Subsurface Soil (0-10') SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Semivolatile Organics				
2-Chlorophenol	µg/Kg	--	SS907-2093	21.7 J
m,p-Cresols	µg/Kg	--	SS907-2093	19.7 J
Phenol	µg/Kg	--	SS907-2093	28.1 J
Volatile Organics				
Benzene	µg/Kg	--	SS901-2079	0.15 J
			SS905-2089	0.52 J
Toluene	µg/Kg	--	SB901-2080-2.0	0.25 J
			SB904-2088-3.0	0.58 J
			SB905-2090-2.0	0.37 J
			SB909-2098-2.0	0.2 J
			SS905-2089	0.38 J

* Data qualifier included with concentration value

Table 4-135
Exposure Unit 9
Surface Water Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides, Dissolved					
Actinium-227, Dissolved	pCi/L	10	--	--	0
Americium-241, Dissolved	pCi/L	10	16.9	16.9	1
Cesium-137, Dissolved	pCi/L	10	--	--	0
Cobalt-60, Dissolved	pCi/L	10	--	--	0
Protactinium-231, Dissolved	pCi/L	10	--	--	0
Radium-226, Dissolved	pCi/L	10	0.404	0.752	6
Radium-228, Dissolved	pCi/L	10	--	--	0
Thorium-228, Dissolved	pCi/L	10	0.441	0.441	1
Thorium-230, Dissolved	pCi/L	10	0.063 J	0.263	6
Thorium-232, Dissolved	pCi/L	10	--	--	0
Uranium-234, Dissolved	pCi/L	10	4.77	19 J	10
Uranium-235, Dissolved	pCi/L	10	0.409	0.978 J	6
Uranium-238, Dissolved	pCi/L	10	4.96	18.2 J	10
Radionuclides, Total					
Actinium-227	pCi/L	10	--	--	0
Alpha	pCi/L	10	7.48	53.7 J	10
Americium-241	pCi/L	10	--	--	0
Beta	pCi/L	10	14.5	50.2	10
Cesium-137	pCi/L	10	--	--	0
Cobalt-60	pCi/L	10	--	--	0
Protactinium-231	pCi/L	10	--	--	0
Radium-226	pCi/L	10	0.36	2.21	9
Radium-228	pCi/L	10	--	--	0
Thorium-228	pCi/L	10	0.0823	0.251 J	4
Thorium-230	pCi/L	10	0.0917	0.226	5
Thorium-232	pCi/L	10	0.087	0.111	3
Total Uranium	μg/L	10	9.92	48.3	10
Uranium-234	pCi/L	10	5.21	17.7 J	10
Uranium-235	pCi/L	10	0.202	0.964	8
Uranium-238	pCi/L	10	4.4	16.5 J	10

* Data qualifier included with concentration value

Table 4-136
Exposure Unit 9
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radionuclides, Dissolved				
Americium-241, Dissolved	pCi/L	--	SW920-2122	16.9
Thorium-228, Dissolved	pCi/L	0.405	SW912-2104	0.441
Uranium-234, Dissolved	pCi/L	6.07	SW911-2102	9.18
			SW911-2105	8.07
			SW912-2104	18.1
			SW914-2109	11.7
			SW915-2112	10.1
			SW916-2114	8.9
			SW919-2120	19 J
			SW920-2122	6.43
Uranium-235, Dissolved	pCi/L	0.634	SW912-2104	0.774
			SW919-2120	0.978 J
Uranium-238, Dissolved	pCi/L	5.23	SW911-2102	8.23
			SW911-2105	7.11
			SW912-2104	16.7
			SW914-2109	10.2
			SW915-2112	9.03
			SW916-2114	7.73
			SW919-2120	18.2 J
			SW920-2122	6.54
Radionuclides, Total				
Alpha	pCi/L	12.2	SW911-2102	14.9
			SW911-2105	18.2
			SW912-2104	20.9
			SW914-2109	25.5
			SW915-2112	24
			SW916-2114	16.9
			SW918-2118	14.2
			SW919-2120	53.7 J
			SW920-2122	17.4
Beta	pCi/L	12.3	SW911-2102	19.4
			SW911-2105	16.2
			SW912-2104	50.2
			SW914-2109	16.3
			SW915-2112	15.8
			SW916-2114	15.3
			SW917-2116	14.5
			SW918-2118	17.9
			SW919-2120	39 J
			SW920-2122	18.2

* Data qualifier included with concentration value

Table 4-136
Exposure Unit 9
Surface Water SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radium-226	pCi/L	0.487	SW911-2102	0.652
			SW912-2104	2.21
			SW915-2112	0.685
			SW916-2114	0.686
			SW917-2116	0.607
			SW918-2118	0.899
			SW919-2120	0.924
Thorium-232	pCi/L	--	SW914-2109	0.087
			SW918-2118	0.111
			SW919-2120	0.0957 J
Total Uranium	μg/L	12.5	SW911-2102	24
			SW911-2105	21.9
			SW912-2104	16.4
			SW914-2109	28.9
			SW915-2112	46.9
			SW916-2114	20.2
			SW919-2120	48.3
			SW920-2122	18
Uranium-234	pCi/L	5.78	SW911-2102	12.4
			SW911-2105	10.5
			SW912-2104	16
			SW914-2109	15.1
			SW915-2112	8.08
			SW916-2114	11.4
			SW919-2120	17.7 J
			SW920-2122	7.62
Uranium-235	pCi/L	0.529	SW911-2105	0.964
			SW912-2104	0.778
			SW914-2109	0.756
			SW918-2118	0.567
			SW919-2120	0.91 J
Uranium-238	pCi/L	4.81	SW911-2102	8.98
			SW911-2105	8.51
			SW912-2104	15.9
			SW914-2109	12.3
			SW915-2112	7.32
			SW916-2114	10.4
			SW918-2118	4.91
			SW919-2120	16.5 J
			SW920-2122	6.65

* Data qualifier included with concentration value

Table 4-137
Exposure Unit 9
Sediment Sample Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Number of Samples	Minimum Detect*	Maximum Detect*	Results > Detection Limit
Radionuclides					
Actinium-227	pCi/g	2	--	--	0
Alpha	pCi/g	2	19.8	21.7	2
Americium-241	pCi/g	2	--	--	0
Beta	pCi/g	2	31.9	38.1	2
Cesium-137	pCi/g	2	0.101	0.175	2
Cobalt-60	pCi/g	2	--	--	0
Potassium-40	pCi/g	2	22.2	22.5	2
Protactinium-231	pCi/g	2	--	--	0
Radium-226	pCi/g	2	1.08	1.09	2
Radium-228	pCi/g	2	1.08	1.16	2
Thorium-228	pCi/g	2	1.22	1.38	2
Thorium-230	pCi/g	2	1.32	1.4	2
Thorium-232	pCi/g	2	1.11	1.11	2
Total Uranium	μg/g	2	2.65	3.83	2
Uranium-234	pCi/g	2	1.49	2.48	2
Uranium-235	pCi/g	2	0.138	0.138	1
Uranium-238	pCi/g	2	1.31	1.86	2

* Data qualifier included with concentration value

Table 4-138
Exposure Unit 9
Sediment SRC Summary
Niagara Falls Storage Site Remedial Investigation

Parameter	Units	Background Screening Value	Samples That Exceed Background Screening Value	Concentration*
Radionuclides				
Potassium-40	pCi/g	--	SD919-2119	22.5
			SD920-2121	22.2
Radium-228	pCi/g	1.14	SD919-2119	1.16
Thorium-228	pCi/g	1.31	SD920-2121	1.38

* Data qualifier included with concentration value

Table 5-1
Summary of Slug Test Results for the Upper and Lower Water-Bearing Zones
Niagara Falls Storage Site

Well	Surface Elevation (ft amsl)	Depth (ft BGS)	Screen (ft BGS)		Hydraulic Conductivity K (cm/s)	Date of Test
			Top	Bottom		
Lower Water-Bearing Zone						
A23A	319.74	80.5	44.2	80.5	4.96E-05	2001
A56	323.40	40.4	30.4	40.4	2.83E-05	2001
A57	323.90	80	40	80	7.61E-06	2001
BH15	318.06	104.5	94.5	104.5	2.00E-05	Unknown
BH49	318.18	50.9	30.9	50.9	1.37E-06	2001
BH50	316.80	44	30.5	44	5.00E-05	Unknown
BH51	318.86	43.4	23.4	43.4	7.52E-06	2001
BH57	320.70	101.5	91.5	101.5	9.68E-07	Unknown
BH59	318.39	38.8	24.1	38.8	2.91E-07	2001
BH61	315.91	46	31.9	46	2.81E-05	2001
BH63	320.83	48	38	48	2.20E-05	2001
OW03A	318.63	37.4	27.4	37.4	2.30E-05	2001
OW08A	316.87	44.6	32.7	43	9.07E-06	2001
OW10A	317.88	41.5	36.5	41.5	1.54E-06	2001
OW13A	319.24	41.1	29.4	39.7	2.74E-04	2001
OW15A	318.09	45.5	39	44	1.11E-04	2001
OW19D	316.86	48.2	36.2	48.2	1.68E-04	2001
OW20D	318.86	48.5	38.5	48.5	4.17E-06	2001
Upper Water-Bearing Zone						
505	316.00	18.5	10	18.5	2.81E-07	2001
606	320.20	18	18	8	1.75E-07	2001
816	319.3	15	10	15	9.75E-06	2001
201A	318.74	15	5	15	6.02E-06	2001
203A	319.19	15	5	15	1.84E-05	2001
213A	319.16	15	5	15	2.43E-06	2001
215A	317.90	10	5	10	2.99E-06	2001
302A	318.30	15	5	15	1.01E-06	2001
303A	319.00	15	5	15	2.83E-06	2001
404A	321.60	24.7	14.7	24.7	2.20E-06	2001
411A	319.40	17	7	17	5.92E-07	2001
415A	319.00	15	10	15	7.37E-07	2001
603A	318.60	20	10	20	5.58E-07	2001
606A	320.20	20	8.7	18.7	4.21E-06	2003
808A	317.60	17	7	17	2.43E-06	2001
810A	317.4	15	5	15	6.07E-07	2001
A43	321.7	14	9.4	14	1.00E-03	Unknown
A45	323.21	20	15.4	20	3.37E-02	2003
A50	320.92	23	18.4	23	2.17E-04	Unknown
A52	320.07	15	10.4	15	9.58E-03	2003

Table 5-1
Summary of Slug Test Results for the Upper and Lower Water-Bearing Zones
Niagara Falls Storage Site

Well	Surface Elevation (ft amsl)	Depth (ft BGS)	Screen (ft BGS)		Hydraulic Conductivity K (cm/s)	Date of Test
			Top	Bottom		
Upper Water-Bearing Zone (continued)						
B02W020S	318.92	19.4	10	19.4	4.20E-06	Unknown
BH49A	318.82	19.5	14.6	19.5	2.81E-06	2001
OW01B	318.90	17	5.3	15.3	5.19E-07	2003
OW02B	318.54	20	15	20	1.96E-04	2003
OW03B	318.68	15	9.5	14.5	3.16E-07	2003
OW04B	317.07	17	12	17	1.60E-03	2003
OW06B	318.85	17	12	17	5.48E-07	2001
OW07B	316.39	13	8	13	1.19E-06	2003
OW08B	316.92	12	5.5	10.5	1.86E-05	2003
OW10B	317.98	29	18.7	29	8.41E-07	2001
OW11B	317.16	12.5	7.5	12.5	2.13E-05	2003
OW12B	318.15	10.8	5.8	10.8	3.17E-06	2003
OW13B	319.06	14	9	14	3.21E-06	2001
OW14B	318.25	15.1	10.1	15.1	7.26E-06	2003
OW15B	318.17	12	7	12	3.84E-05	2003
OW16B	317.96	11.9	6.9	11.9	2.07E-05	2003
OW17B	318.27	16.9	11.9	16.9	1.99E-06	2003
OW18B	319.12	16.6	11.9	16.6	1.40E-06	2003
OW20S	318.92	22	12	22	2.90E-07	2001

Table 6-1 Physical Properties of Selected Organic Compounds

Organic Compound	Half-Life per Media		K_{oc} (L/Kg) [b]	K_d [b] (L/Kg)	Solubility [c] (mg/L)	Vapor Pressure [c] (mm Hg)
	Media	Half-Life Range [a]				
Volatile Organic Compounds						
2-Butanone	Water	1-7 days	4.50E+00	3.00E-02	2.7E+05	70 @ 20°C
Acetone	Water	1-7 days	5.80E-01	3.36E-03	1.0E+06	180 @ 20°C
Benzene	Soil/Water/GW	5-16 days/10 days-2 yrs	6.20E+01	3.60E-01	2.E+03	60 @ 15°C
Carbon Disulfide	Water	< 2 days	---	---	slight	300 @ 20°C
cis-1,2-DCE	Soil/GW	1-6 mos/2 mos-8 yrs	3.60E+01	2.10E-01	3.5E+03	200 @ 35°C
trans-1,2-DCE	GW	2 mos-8 yrs	3.80E+01	2.20E-01	6.3E+03	200 @ 14°C
Ethylbenzene	Water	3-10 days	2.00E+02	1.16E+00	1.7E+02	7.02 @ 20°C
Methylene Chloride	Soil/Water/GW	1-4 wks/2-8 wks	1.00E+01	5.80E-02	1.3E+04	229.7 @ 10°C
Tetrachloroethene	Soil/Water/GW	0.5-1 yr/1-2 yrs	2.70E+02	1.57E+00	2.0E+02	10 @ 13.8°C
Toluene	Water	4-22 days	1.40E+02	8.10E-01	5.3E+02	22 @ 20°C
Trichloroethene	Soil/Water/GW	0.5-1 yr/11 mos-4.5 yrs	9.40E+01	5.50E-01	1.1E+03	35.2 @ 10°C
Vinyl Chloride	Water/GW	1-6 mos/2-95 mos	1.90E+01	1.10E-01	2.8E+03	2,580 @ 20°C
Xylenes	Water	1-4 wks	2.00E+02	1.16E+00	1.6E+02	6.6 @ 25°C
Semivolatile Organic Compounds						
bis(2-ethylhexyI)phthalate	Soi/Sediment/Water	5-23 days	1.51E+07	8.76E+04	0.4	2.0E-7 @ 20° C
Carbazole	Soil	---	3.39E+03	1.97E+01	1 @ 20° C	7.0E-4 @ 20°C
Phenol	Soil/Water/GW	1 -10 days/0.2-2.4 days/ 0.5-7 days	2.90E+01	1.70E-01	8.2E+4 @ 15° C	0.2 @ 20°C
Polyaromatic Hydrocarbons						
Anthracene	Water	0.5-1.7 hours	2.40E+04	1.39E+02	0.041	1.95E-4 @ 20° C
Benz(a)anthracene	Soil/Sediment/Water/GW	0.3-1.9 yrs/1-3 hrs/ 0.6-3.7 yrs	3.98E+05	2.31E+03	0.014	5E-9 @ 20° C
Benzo(a)pyrene	Soil/Sediment/Water/GW	0.2-1.5 yrs/0.4-1 hrs/ 0.3-2.9 yrs	1.02E+06	5.92E+03	4.00E-03	5.49E-9 @ 25° C
Benzo(b)fluoranthene	Soil/Water/GW	1-1.7 yrs/0.3-30 days/2-3.3 yrs	1.23E+06	7.13E+03	1.20E-03	5.0E-7 @ 20° C
Benzo(g,h,i)perylene	Water	1.6-1.8 yrs	3.86E+06	2.24E+04	2.60E-04	1.01E-10 @ 25° C
Benzo(k)fluoranthene	Soil/Sedimcnt/Water/GW	2.5-5.9 yrs/0.2-20 days/ 5-12 yrs	1.23E+06	7.13E+03	5.50E-04	9.59E-11 @ 25° C
Chrysene	Sediment/Water	4-13 hrs	4.00E+05	2.32E+03	1.60E-03	6.3E-7 @ 20° C
Dibenz(a,h)anthracene	Soil/Water/GW	1-2.6 yrs/0.25-33 days/ 2-5.2 yrs	3.80E+06	2.20E+04	5.00E-04	1E-10 @ 20° C
Fluorene	Water	32-60 days	7.90E+03	4.58E+01	1.69	1.95E-4 @ 35° C
Indeno(1,2,3-cd)pyrene	Soil/Sedimcnt/Water/GW	1.6-2 yrs/125-250 days/ 3.3-4 yrs	3.47E+06	2.01E+04	0.062	1E-10 @ 25° C
Pyrene	Water	0.7-2 hrs	6.80E+04	3.94E+02	0.14	3.5E-3 @ 8° C

Table 6-1 Physical Properties of Selected Organic Compounds

Organic Compound	Half-Life per Media		K_{oc} (L/Kg) [b]	K_d [b] (L/Kg)	Solubility [c] (mg/L)	Vapor Pressure [c] (mm Hg)
	Media	Half-Life Range [a]				
Pesticides						
4.4'-DDD	Soil/Sediment	---	1.00E+06	5.80E+03	0.16 @ 24° C	1.02E-6 @ 30° C
4,4'-DDE	Soil/Sediment	---	4.47E+06	2.59E+04	0.0013	6.49E-6 @ 30° C
4,4'-DDT	Soil/Sediment	---	2.63E+06	1.53E+04	0.0012	1.9E-7 @ 20° C
Aldrin	Soil/Sediment	3 wks-1.6 yrs	2.45E+06	1.42E+04	0.011	2.31E-5 @ 20° C
Alpha-chlordane	GW	1.5-7.6 yrs	1.20E+05	6.96E+02	0.051	4.6E-4 @ 25° C
Gamma-chlordane	Soil	0.8-3.8 yrs	1.20E+05	6.96E+02	0.056	1E-5 @ 20° C
Alpha-BHC	Water	14-135 days	1.23E+03	7.13E+00	1.63	2.5E-5 @ 20'C
Beta-BHC	Water	14-124 days	1.26E+03	7.31E+00	5 @ 20° C	2.8E-7 @ 20° C
Delta-BHC	Soil	14-100 days	1.17E+04	6.81E+01	0.12	1.7E-5 @ 20° C
Gamma-BHC	GW	6-240 days	1.07E+03	6.21E+00	2	5.57E-5 @ 25° C
Dieldrin	Soil/Sediment/Water/GW	0.5-3 yrs/1 day-6 yrs	2.14E+04	1.24E+02	0.2	3.1E-6 @ 20° C
Endosulfan I	Sediment	0.2-9 days	2.14E+03	1.24E+01	0.53	1E-5 @ 25° C
Endosulfan II *	Water/GW	0.2-9 days	2.14E+03	1.24E+01	0.28	1E-5 @ 25° C
Endosulfan sulfate *	Water/GW	0.2-9 days	2.14E+03	1.24E+01	0.12	---
Endrin	Soil	4-14 yrs	1.23E+04	7.13E+01	0.26	7E-7 @ 25° C
Endrin aldehyde *	Soil	4-14 yrs	1.23E+04	7.13E+01	0.26	2E-7 @ 25° C
Heptachlor epoxide	Soil/Water/GW	33-552 days/ 1-1,104 days	8.32E+04	4.83E+02	0.275	2.6E-6 @ 20° C
Polychlorinated Biphenyls						
Aroclor 1248	Soil	>50 days	3.10E+05	1.80E+03	0.05 @ 20° C	4.94E-4 @ 25° C
Aroclor 1254	Soil/Sediment	>50 days	3.10E+05	1.80E+03	0.012	6E-5 @ 20°C
Aroclor 1260	Soil	>50 days	3.10E+05	1.80E+03	0.08 @ 24° C	4.05E-5 @ 25° C

Note: Table modified from Table 10-1 from *Report of Results for the Phase II Remedial Investigation at the LOOW* (EA 2002).

L/Kg - liters per kilogram

mg/L - milligrams per liter

mm - millimeters

(a) Mackay et al. (1992a, 1992b, 1993, 1995)

(b) K_{oc} and K_d from EPA Region IX or ORNL (2001)

(c) Solubility and vapor pressure at 25°C unless noted otherwise: EPA Region 9 (2001), ORNL (2001), Howard (1989, 1990, 1991), Howard et al. (1991), NIOSH.

--- Not available or unknown

Table 6-2 Physical Properties of Selected Metals

Metal	Atomic Weight (g/mol)	Solubility Limit (mg/L)	Distribution Coefficient (K_d)	
			(ft^3/g)	(L/kg)
Arsenic	74.9216	3.0E+04	1.6E-03	4.5E+01
Barium	137.33	7.0E-03	8.5E-03	2.4E+02
Boron	10.81	1.0E+04	8.4E-05	2.4E+00
Cadmium	112.41	1.5E-01	2.1E-02	1.8E+02
Iron	55.847	1.0E+04	5.8E-03	1.6E+02
Lead	207.2	6.0E-02	1.3E-01	3.7E+03
Molybdenum	95.94	1.3E+00	7.6E-04	2.2E+01
Manganese	54.9380	1.7E+00	2.2E-02	6.2E+02
Nickel	58.71	6.8E+02	6.1E-02	1.7E+03

Note: Information extracted from Table 4-5 from *Groundwater Flow and Contaminant Transport Modeling, NFSS* (HGL 2006)

mg/L - milligrams per liter

ft^3/g - cubic feet per gram

g/mol - grams per mole

Table 6-3 Physical Properties of Selected Radionuclides

		Uranium-Radium Series [a]					Actinium Series [a]			Thorium Series [a]			Other Radionuclides [b]			
Physical Property	**Units**	^{238}U	^{234}U	^{230}Th	^{226}Ra	^{210}Pb	^{235}U	^{231}Pa	^{227}Ac	^{232}Th	^{228}Ra	^{228}Th	^{137}Cs	^{239}Pu	^{240}Pu	^{90}Sr
Atomic Weight	g/mol	238	234	230	226	210	235	231	227	232	228	228	133	239	240	88
Half-Life	years	4.5E+09	2.4E+05	7.7E+04	1.6E+03	2.2E+01	7.0E+08	3.3E+04	2.2E+01	1.4E+10	5.8E+00	1.9E+00	3.0E+01	2.4E+04	6.5E+03	2.9E+01
Decay Constant	1/day	4.2E-13	7.8E-09	2.5E-08	1.2E-06	8.6E-05	2.7E-12	5.8E-08	8.6E-05	1.4E-13	3.3E-04	1.0E-03	---	---	---	---
Specific Activity	Ci/g	3.4E-07	6.2E-03	2.1E-02	1.0E+00	7.6E+01	2.2E-06	4.7E-02	7.2E+01	1.1E-07	2.7E+02	8.2E+02	8.8E+01	6.3E-02	2.3E-01	1.4E+02
Solubility Limit	mg/L	3.1E+02	3.1E+02	8.0E-05	8.0E-03	6.0E-02	3.1E+02	4.0E-03	---	8.0E-05	8.0E-03	8.0E-05	---	low	---	---
Distribution Coefficient (K_d)	L/kg	3.6E+00	3.6E+00	7.8E+02	2.7E+02	3.6E+04	3.6E+00	1.5E+03	4.5E+02	7.8E+02	2.7E+02	7.8E+02				
	ft^3/g	1.3E-04	1.3E-04	2.8E-02	9.6E-03	1.3E+00	1.3E-04	5.3E-02	1.6E-02	2.8E-02	9.6E-03	2.8E-02	3.5E-02	1.6E-01	1.6E-01	1.2E-03

g/mol - grams per mole

Ci/g - Curies per gram

mg/L - milligrams per liter

ft^3/g - cubic feet per gram

(a) Information for decay series extracted from Table 4-5 from *Groundwater Flow and Contaminant Transport Modeling, NFSS* (HGL 2006)

(b) Information obtained from the Risk Assessment Information System (ORNL 2001) and Argonne National Laboratory Human Heath Fact Sheets.

--- Not available or unknown

Table 6-4. Summary of Groundwater Flow and Transport Modeling Results for Radionuclides

Radionuclide	Screening Level (SL) (pCi/L)	Maximum Concentration Milestone [a]	Groundwater Flow and Transport Model Layer												Comments
			Brown Clay Till			Glacio-Lacustrine Clay			Alluvial Sand and Gravel			Queenston Formation			
			Elapsed Time (years)	Maximum Concentration (pCi/L) [b]	Location of Concentration Milestone	Elapsed Time (years)	Maximum Concentration (pCi/L) [b]	Location of Concentration Milestone	Elapsed Time (years)	Maximum Concentration (pCi/L) [b]	Location of Concentration Milestone	Elapsed Time (years)	Maximum Concentration (pCi/L) [b]	Location of Concentration Milestone	
Uranium-238 Decay Series															
^{238}U	6.32	1st Occurrence > SL	0	300	SE of IWCS near boundary of EUs 10 and 11 (utilities)	200	7.6	SE of IWCS near boundary of EUs 10 and 11 (utilities)	1,150	7	E of Bldg. 411 and IWCS in EU 11	1,700	6.8	E of Bldg. 411 and IWCS in EU 11	Levels continue to increase through 10,000 years after entering each layer.
		FS ARAR Timeframe	1,000	2,460	Beneath IWCS - south side of Bldg. 411	1,000	71	Beneath IWCS - south side of Bldg. 411	1,000	5 (<SL)	E of Bldg. 411 and IWCS in EU 11	1,000	1.6 (<SL)	E of Bldg. 411 and IWCS in EU 11	
		End of Modeled Timeframe	10,000	31,100	Beneath IWCS - at Bldg. 411	10,000	10,500	Beneath IWCS - south side of Bldg. 411	10,000	3,990	Beneath IWCS - south side of Bldg. 411	10,000	1,710	Beneath IWCS - south side of Bldg. 411	
^{234}U	8.94	1st Occurrence > SL	0	300	SE of IWCS near boundary of EUs 10 and 11 (utilities)	150	13	E of Bldg. 411 and IWCS in EU 11	450	10	E of Bldg. 411 and IWCS in EU 11	850	9.5	E of Bldg. 411 and IWCS in EU 11	Levels continue to increase through 10,000 years after entering each layer.
		FS ARAR Timeframe	1,000	2,480	Beneath IWCS - south side of Bldg. 411	1,000	143	E of Bldg. 411 and IWCS in EU 11	1,000	34	E of Bldg. 411 and IWCS in EU 11	1,000	13	E of Bldg. 411 and IWCS in EU 11	
		End of Modeled Timeframe	10,000	31,300	Beneath IWCS - at Bldg. 411	10,000	10,500	Beneath IWCS - south side of Bldg. 411	10,000	4,000	Beneath IWCS - south side of Bldg. 411	10,000	1,720	Beneath IWCS - south side of Bldg. 411	
^{230}Th	0.39	1st Occurrence > SL	0	1.0	SW corner of EU 7 near EU 7/EU 10 boundary	5,750	0.4	Beneath IWCS - south side of Bldg. 411	9,000	0.4	Beneath IWCS - south side of Bldg. 411	Never > SL	---	---	Levels continue to slightly increase in 10,000 years after entering BCT, GLC and ASG. Never exceeds SL in QF.
		FS ARAR Timeframe	1,000	0.99	SW corner of EU 7 near EU 7/EU 10 boundary	1,000	0.003 (<SL)	E of Bldg. 411 and IWCS in EU 11	1,000	0.0006 (<SL)	E of Bldg. 411 and IWCS in EU 11	1,000	0.0002 (<SL)	E of Bldg. 411 and IWCS in EU 11	
		End of Modeled Timeframe	10,000	7	Beneath IWCS - south side of Bldg. 411	10,000	1.8	Beneath IWCS - south side of Bldg. 411	10,000	0.6	Beneath IWCS - south side of Bldg. 411	10,000	0.26	Beneath IWCS - south side of Bldg. 411	
^{226}Ra	1.31	1st Occurrence > SL	1,450	1.3	SW corner of EU 7 near EU 7/EU 10 boundary	7,750	1.4	Beneath IWCS - south side of Bldg. 411	Never>SL	---	---	Never>SL	---	---	Levels continues to increase in activity through 10,000 years after entering BCT and GLC. Never exceeds SL in ASG and QF.
		FS ARAR Timeframe	1,000	1.0 (<SL)	SW corner of EU 7 near EU 7/EU 10 boundary	1,000	0.001 (<SL)	E of Bldg. 411 and IWCS in EU 11	1,000	0.0002 (<SL)	E of Bldg. 411 and IWCS in EU 11	1,000	0.0005 (<SL)	E of Bldg. 411 and IWCS in EU 11	
		End of Modeled Timeframe	10,000	14	Beneath IWCS - south side of Bldg. 411	10,000	1.8	Beneath IWCS - south side of Bldg. 411	10,000	0.86	Beneath IWCS - south side of Bldg. 411	10,000	0.002	Beneath IWCS - south side of Bldg. 411	
^{210}Pb	NA	Initial Time	0	0	---	0	0	---	0	0	---	0	0	---	Levels continue to increase slightly through 10,000 years after entering each layer.
		FS ARAR Timeframe	1,000	0.007	SW corner of EU 7 near EU 7/EU 10 boundary	1,000	0	---	1,000	0	---	1,000	0	---	
		End of Modeled Timeframe	10,000	0.1	Beneath IWCS - south side of Bldg. 411	10,000	0.02	Beneath IWCS - south side of Bldg. 411	10,000	0.006	Beneath IWCS - south side of Bldg. 411	10,000	0.002	Beneath IWCS - south side of Bldg. 411	

Table 6-4. Summary of Groundwater Flow and Transport Modeling Results for Radionuclides

Radionuclide	Screening Level (SL) (pCi/L)	Maximum Concentration Milestone [a]	Groundwater Flow and Transport Model Layer												Comments
			Brown Clay Till			Glacio-Lacustrine Clay			Alluvial Sand and Gravel			Queenston Formation			
			Elapsed Time (years)	Maximum Concentration (pCi/L) [b]	Location of Concentration Milestone	Elapsed Time (years)	Maximum Concentration (pCi/L) [b]	Location of Concentration Milestone	Elapsed Time (years)	Maximum Concentration (pCi/L) [b]	Location of Concentration Milestone	Elapsed Time (years)	Maximum Concentration (pCi/L) [b]	Location of Concentration Milestone	
Uranium-235 Decay Series															
^{235}U	0.51	1st Occurrence > SL	0	30	SE of IWCS near boundary of EUs 10 and 11 (utilities)	100	0.6	E of Bldg. 411 and IWCS in EU 11	350	0.7	E of IWCS in EU 11	650	0.6	E of Bldg. 411 and IWCS in EU 11	Levels continue to increase through 10,000 years after entering each layer.
		FS ARAR Timeframe	1,000	455	Beneath IWCS - south side of Bldg. 411	1,000	16	E of Bldg. 411 and IWCS in EU 11	1,000	3.6	E of Bldg. 411 and IWCS in EU 11	1,000	1.4	E of Bldg. 411 and IWCS in EU 11	
		End of Modeled Timeframe	10,000	4,540	Beneath IWCS - south side of Bldg. 411	10,000	1,170	Beneath IWCS - south side of Bldg. 411	10,000	405	Beneath IWCS - south side of Bldg. 411	10,000	187	Beneath IWCS - south side of Bldg. 411	
^{231}Pa	NA	Initial Time	0	0	---	0	0	---	0	0	---	0	0	---	Levels continue to increase slightly through 10,000 years after entering each layer.
		FS ARAR Timeframe	1,000	0.007	Beneath IWCS - south side of Bldg. 411	1,000	0.0004	E of Bldg. 411 and IWCS in EU 11	1,000	0	---	1,000	0	---	
		End of Modeled Timeframe	10,000	1.4	Beneath IWCS - south side of Bldg. 411	10,000	0.22	Beneath IWCS - south side of Bldg. 411	10,000	0.07	Beneath IWCS - south side of Bldg. 411	10,000	0.03	Beneath IWCS - south side of Bldg. 411	
^{227}Ac	NA	Initial Time	0	0	---	1,800	0.01	Beneath IWCS - south side of Bldg. 411	3,100	0.01	Beneath IWCS - south side of Bldg. 411	4,600	0.01	Beneath IWCS - south side of Bldg. 411	Levels continue to increase slightly through 10,000 years after entering each layer.
		FS ARAR Timeframe	1,000	0.02	SE of Bldg. 411 and IWCS in EU 11	1,000	0.001	E of Bldg. 411 and IWCS in EU 11	1,000	0.0002	E of Bldg. 411 and IWCS in EU 11	1,000	0	---	
		End of Modeled Timeframe	10,000	4.63	Beneath IWCS - south side of Bldg. 411	10,000	0.74	Beneath IWCS - south side of Bldg. 411	10,000	0.24	Beneath IWCS - south side of Bldg. 411	10,000	0.09	Beneath IWCS - south side of Bldg. 411	
Thorium-232															
^{232}Th	0.229	1st Occurrence > SL	0	0	---	0	0	---	0	0	---	0	0	---	Never enters groundwater at detectable levels.
		FS ARAR Timeframe	1,000	0	---	1,000	0	---	1,000	0	---	1,000	0	---	
		End of Modeled Timeframe	10,000	0	---	10,000	0	---	10,000	0	---	10,000	0	---	

pCi/L - picoCuries per liter
ARAR- Applicable or Relevant and Appropriate Requirement
SL - Screening Level
a - For radionuclides that have no SL, the first occurrence>SL is not applicable. Instead, the concentration at the initial time (0 years) is presented.
b - Concentrations of "0" represent modeled values of 10^{-5} or less.

Table 6-5. Summary of Groundwater Flow and Transport Modeling Results for Metals and Organic Compounds

Constituent	Screening Level (SL) (µg/L)	Maximum Concentration Milestone [a]	Groundwater Flow and Transport Model Layer												Comments
			Brown Clay Till			Glacio-Lacustrine Clay			Alluvial Sand and Gravel			Queenston Formation			
			Elapsed Time (years)	Maximum Concentration	Location of Concentration Milestone	Elapsed Time (years)	Maximum Concentration	Location of Concentration Milestone	Elapsed Time (years)	Maximum Concentration	Location of Concentration Milestone	Elapsed Time (years)	Maximum Concentration	Location of Concentration Milestone	
Metals															
Antimony	2.4	1st Occurrence > SL	---	---	---	---	---	---	---	---	---	---	---	---	Antimony never exceeds the SL in any layers. Constituent selected for modeling based on relative concentration in residues and potential to leach.
		1st Occurrence < SL	---	---	---	---	---	---	---	---	---	---	---	---	
		FS ARAR Timeframe	1,000	---	---	1,000	---	---	1,000	---	---	1,000	---	---	
		End of Modeled Timeframe	10,000	---	---	10,000	---	---	10,000	---	---	10,000	---	---	
Arsenic	10	1st Occurrence > SL	---	---	---	---	---	---	---	---	---	---	---	---	Arsenic never exceeds the SL in any layers. Constituent selected for modeling based on relative concentration in residues and potential to leach.
		1st Occurrence < SL	---	---	---	---	---	---	---	---	---	---	---	---	
		FS ARAR Timeframe	1,000	---	---	1,000	---	---	1,000	---	---	1,000	---	---	
		End of Modeled Timeframe	10,000	---	---	10,000	---	---	10,000	---	---	10,000	---	---	
Barium	42.8	1st Occurrence > SL	---	---	---	---	---	---	---	---	---	---	---	---	Barium never exceeds the SL in any layers. Constituent selected for modeling based on relative concentration in residues and potential to leach.
		1st Occurrence < SL	---	---	---	---	---	---	---	---	---	---	---	---	
		FS ARAR Timeframe	1,000	---	---	1,000	---	---	1,000	---	---	1,000	---	---	
		End of Modeled Timeframe	10,000	---	---	10,000	---	---	10,000	---	---	10,000	---	---	
Boron	4,750	1st Occurrence > SL	0	25,000	Plume in central portion of EU 4	---	---	---	---	---	---	---	---	---	Boron plumes occur in EUs 4 and 13 with the maximum concentrations in EU 4 decreasing to below the SL in 7,750 years.
		1st Occurrence < SL	7,750	4,640	Plume in central portion of EU 4	---	---	---	---	---	---	---	---	---	
		FS ARAR Timeframe	1,000	18,000	Plume in central portion of EU 4	1,000	---	---	1,000	---	---	1,000	---	---	
		End of Modeled Timeframe	10,000	3,480	Plume in central portion of EU 4	10,000	---	---	10,000	---	---	10,000	---	---	
Cadmium	2.32	1st Occurrence > SL	---	---	---	---	---	---	---	---	---	---	---	---	Cadmium never exceeds the SL in any layers. Constituent selected for modeling based on relative concentration in residues and potential to leach.
		1st Occurrence < SL	---	---	---	---	---	---	---	---	---	---	---	---	
		FS ARAR Timeframe	1,000	---	---	1,000	---	---	1,000	---	---	1,000	---	---	
		End of Modeled Timeframe	10,000	---	---	10,000	---	---	10,000	---	---	10,000	---	---	
Iron	9,280	1st Occurrence > SL	---	---	---	---	---	---	---	---	---	---	---	---	Iron never exceeds the SL in any layers. Constituent selected for modeling based on relative concentration in residues and potential to leach.
		1st Occurrence < SL	---	---	---	---	---	---	---	---	---	---	---	---	
		FS ARAR Timeframe	1,000	---	---	1,000	---	---	1,000	---	---	1,000	---	---	
		End of Modeled Timeframe	10,000	---	---	10,000	---	---	10,000	---	---	10,000	---	---	
Lead	0.935	1st Occurrence > SL	---	---	---	---	---	---	---	---	---	---	---	---	Lead never exceeds the SL in any layers. Constituent selected for modeling based on relative concentration in residues and potential to leach.
		1st Occurrence < SL	---	---	---	---	---	---	---	---	---	---	---	---	
		FS ARAR Timeframe	1,000	---	---	1,000	---	---	1,000	---	---	1,000	---	---	
		End of Modeled Timeframe	10,000	---	---	10,000	---	---	10,000	---	---	10,000	---	---	
Metals (continued)															
Manganese	966	1st Occurrence > SL	0	1,250	Plume in eastern portion of EU 3	---	---	---	---	---	---	---	---	---	One manganese plume exists in the eastern portion of EU3, into EU 4. The plume does not move or change in 10,000 years. Constituent selected for
		1st Occurrence < SL	---	---	---	---	---	---	---	---	---	---	---	---	
		FS ARAR Timeframe	1,000	1,250	Plume in eastern portion of EU 3	1,000	---	---	1,000	---	---	1,000	---	---	

Table 6-5. Summary of Groundwater Flow and Transport Modeling Results for Metals and Organic Compounds

Constituent	Screening Level (SL) (µg/L)	Maximum Concentration Milestone [a]	Groundwater Flow and Transport Model Layer												Comments
			Brown Clay Till			Glacio-Lacustrine Clay			Alluvial Sand and Gravel			Queenston Formation			
			Elapsed Time (years)	Maximum Concentration	Location of Concentration Milestone	Elapsed Time (years)	Maximum Concentration	Location of Concentration Milestone	Elapsed Time (years)	Maximum Concentration	Location of Concentration Milestone	Elapsed Time (years)	Maximum Concentration	Location of Concentration Milestone	
		End of Modeled Timeframe	10,000	1,250	Plume in eastern portion of EU 3	10,000	---	---	10,000	---	---	10,000	---	---	modeling based on relative concentration in residues and potential to leach.
Molybdenum	40	1st Occurrence > SL	---	---	---	---	---	---	---	---	---	---	---	---	Molybdenum never exceeds the SL in any layers. Constituent selected for modeling based on relative concentration in residues and potential to leach.
		1st Occurrence < SL	---	---	---	---	---	---	---	---	---	---	---	---	
		FS ARAR Timeframe	1,000	---	---	1,000	---	---	1,000	---	---	1,000	---	---	
		End of Modeled Timeframe	10,000	---	---	10,000	---	---	10,000	---	---	10,000	---	---	
Volatile Organic Compounds															
PCE	5	1st Occurrence > SL	0	100,000	Plume in central portion of EU 4	50	32.4	Plume in central portion of EU 4	---	---	---	---	---	---	One PCE plume exists in the central portion of EU 4 with the maximum concentration decreasing to below the SL in 100 years in model layer 1 and 2.
		1st Occurrence < SL	150	4.92	Plume in central portion of EU 4	100	2.39	Plume in central portion of EU 4	---	---	---	---	---	---	
		FS ARAR Timeframe	1,000	---	---	1,000	---	---	1,000	---	---	1,000	---	---	
		End of Modeled Timeframe	10,000	---	---	10,000	---	---	10,000	---	---	10,000	---	---	
TCE	5	1st Occurrence > SL	0	20,000	Plume in central portion of EU 4	50	259	Plume in central portion of EU 4	50	16.1	Plume in central portion of EU 4	---	---	---	One TCE plume exists in the central portion of EU 4 with the maximum concentrations dropping below the SL in all layers in 200 years.
		1st Occurrence < SL	200	2.55	Plume in central portion of EU 4	150	2.56	Plume in central portion of EU 4	100	2.9	Plume in central portion of EU 4	---	---	---	
		FS ARAR Timeframe	1,000	---	---	1,000	---	---	1,000	---	---	1,000	---	---	
		End of Modeled Timeframe	10,000	---	---	10,000	---	---	10,000	---	---	10,000	---	---	
cis-1,2-DCE	70	1st Occurrence > SL	0	12,000	Plume in central portion of EU 4	50	703	Plume in central portion of EU 4	---	---	---	---	---	---	One Cis-1,2-DCE plume exists in the central portion of EU 4 with maximum concentrations dropping below the SL in 200 years in layer 1 and 150 years in layer 2.
		1st Occurrence < SL	200	12.6	Plume in central portion of EU 4	150	15.2	Plume in central portion of EU 4	---	---	---	---	---	---	
		FS ARAR Timeframe	1,000	---	---	1,000	---	---	1,000	---	---	1,000	---	---	
		End of Modeled Timeframe	10,000	---	---	10,000	---	---	10,000	---	---	10,000	---	---	
Vinyl Chloride	2	1st Occurrence > SL	0	1,500	Plume in central portion of EU 4	50	4,100	Plume in central portion of EU 4	50	360	Plume in central portion of EU 4	50	126	Plume in central portion of EU 4	One vinyl chloride plume exists in the central portion of EU 4 with maximum concentrations dropping below the SL in all layers in 300 years.
		1st Occurrence < SL	300	0.218	Plume in central portion of EU 4	250	0.955	Plume in central portion of EU 4	250	0.171	Plume in central portion of EU 4	200	1.18	Plume in central portion of EU 4	
		FS ARAR Timeframe	1,000	---	---	1,000	---	---	1,000	---	---	1,000	---	---	
		End of Modeled Timeframe	10,000	---	---	10,000	---	---	10,000	---	---	10,000	---	---	
Semivolatile Organic Compounds															
bis-2-ethylhexylphthalate	6	1st Occurrence > SL	0	12	Plume east of the IWCS in EU 10	---	---	---	---	---	---	---	---	---	One BEHP plume occurs in EU 10, just east of the IWCS. The plume does not move or change in 10,000 years.
		1st Occurrence < SL	---	---	---	---	---	---	---	---	---	---	---	---	
		FS ARAR Timeframe	1,000	12	Plume east of the IWCS in EU 10	1,000	---	---	1,000	---	---	1,000	---	---	
		End of Modeled Timeframe	10,000	12	Plume east of the IWCS in EU 10	10,000	---	---	10,000	---	---	10,000	---	---	
Methylene Chloride	5	1st Occurrence > SL	---	---	---	---	---	---	---	---	---	---	---	---	Methylene chloride never exceeds the SL in any layers.
		1st Occurrence < SL	---	---	---	---	---	---	---	---	---	---	---	---	
		FS ARAR Timeframe	1,000	---	---	1,000	---	---	1,000	---	---	1,000	---	---	

Table 6-5. Summary of Groundwater Flow and Transport Modeling Results for Metals and Organic Compounds

Constituent	Screening Level (SL) (µg/L)	Maximum Concentration Milestone [a]	Groundwater Flow and Transport Model Layer												Comments
			Brown Clay Till			Glacio-Lacustrine Clay			Alluvial Sand and Gravel			Queenston Formation			
			Elapsed Time (years)	Maximum Concentration	Location of Concentration Milestone	Elapsed Time (years)	Maximum Concentration	Location of Concentration Milestone	Elapsed Time (years)	Maximum Concentration	Location of Concentration Milestone	Elapsed Time (years)	Maximum Concentration	Location of Concentration Milestone	
		End of Modeled Timeframe	10,000	---	---	10,000	---	---	10,000	---	---	10,000	---	---	

ARAR- Applicable or Relevant and Appropriate Requirement
SL - Screening Level

Table 7-1 Sitewide SRC Summary and COC/ROC Identification (Subsistence Farmer Scenario)

	EU1				EU2			EU3			EU4				EU5					EU6				EU7				EU8				EU9				EU10				EU11				EU12				EU13			EU14			EU15		EU16			EU17					EU17D
	GW	SB	SS	SW	GW	SB	SS	GW	SB	SS	GW	SB	SS	SW	GW	SB	SD	SS	SW	GW	SB	SS	SW	GW	SB	SS	SW	GW	SB	SS	SW	SB	SD	SS	SW	GW	SB	SS	SW	GW	SB	SS	SW	GW	SB	SS	SW	GW	SB	SS	GW	SB	SS	SD	SW	SB	SD	SW	GW	SB	SD	SS	SW	SB
Explosives																																																																		
1,3,5-Trinitrobenzene	●																						●					●																																						
2,4-Dinitrotoluene																																																		●																		
2,6-Dinitrotoluene																															●																																				
2-Amino-4,6-dinitrotoluene																							●								●																																		●		
2-Nitrotoluene																														●																																					
HMX	●																																																																		
RDX																												●																																						
Tetryl																																																				●																
Metals																																																																			
Aluminum	●	●			●	●	●	●			●	●	●	●	●			●	●	●			●	●				●	●	●		●		●		●	●	●		●	●	●		●	●	●		●	●		●	●	●		●	●		●	●	●		●	●		●
Antimony	●	●			●	●	●	●	●			●	●	●	●	●			●	●	●				●	●		●	●		●					●		●		●	●	●			●				●	●	●	●	●	●		●		●	●	●	●	●		●
Arsenic					●						●		●							●	●			●				●								●				●				●		●		●	●			●		●	●		●	●	●	●	●	●	●	●	●	●
Barium	●				●	●	●	●			●	●	●	●	●			●		●				●				●								●		●		●		●		●		●		●	●		●	●	●		●			●	●		●	●		
Beryllium	●				●	●	●	●			●	●		●	●	●		●	●	●				●				●	●	●				●		●	●	●		●	●	●		●	●	●		●	●		●	●	●		●				●		●	●		●
Boron		●	●			●	●		●	●	●	●	●	●		●		●							●	●			●	●		●		●			●	●			●	●			●	●		●	●	●		●	●		●	●		●	●	●	●	●	●	●
Cadmium		●	●		●		●					●	●	●		●		●	●		●	●	●						●	●	●			●		●		●	●			●	●			●	●			●	●		●	●	●		●	●		●	●	●	●	●	●	●
Calcium			●		●		●			●	●	●	●	●		●		●		●	●	●		●		●		●		●				●		●		●	●		●	●		●		●	●	●		●	●		●		●	●	●	●	●		●	●	●	●
Chromium	●				●	●	●	●		●	●	●	●	●	●			●	●	●			●	●	●			●	●	●				●		●	●	●		●	●	●	●	●	●	●		●	●	●	●	●	●		●		●	●	●		●	●		●
Cobalt	●			●	●			●			●			●	●				●	●			●	●				●			●					●				●				●				●			●				●				●				●			
Copper		●	●		●		●			●	●	●	●	●	●			●	●	●		●	●			●		●	●	●	●	●		●		●		●		●		●		●		●	●	●	●	●	●		●	●	●		●	●		●	●		●
Iron	●	●			●			●			●	●	●	●	●				●	●			●	●				●	●		●					●	●	●		●	●			●	●			●	●					●	●		●	●	●	●	●	●	●
Lead	●				●		●	●		●	●	●	●	●	●					●	●			●				●	●	●						●				●				●				●	●	●			●	●	●		●	●	●	●	●	●	●
Lithium			●				●					●		●				●	●	●				●		●		●	●	●				●		●		●		●	●	●				●					●	●		●	●		●		●	●	●	●	●	●	●
Magnesium	●		●		●		●			●	●	●	●					●						●		●		●	●	●	●			●		●	●	●	●		●	●	●						●	●			●				●	●		●	●	●	●
Manganese			●		●		●	●			●				●					●				●				●								●		●		●				●				●			●			●			●				●		●			
Mercury		●	●	●		●	●					●		●					●		●	●	●													●			●		●	●							●	●				●	●		●	●	●	●	●	●	●	
Nickel	●		●		●		●	●			●	●	●	●	●				●	●			●	●	●			●	●	●	●					●	●	●		●				●				●	●	●	●		●	●		●	●	●	●	●	●	●	●
Potassium			●			●	●		●	●	●	●	●	●				●		●					●	●			●	●		●		●		●	●	●			●	●				●	●		●	●		●		●	●		●	●	●	●	●	●	●
Selenium	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●		●		●	●	●		●	●	●		●	●	●		●		●		●	●	●		●	●	●		●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●
Silver	●		●		●		●	●		●	●		●	●	●				●	●				●				●			●			●		●				●				●		●		●			●		●	●		●	●		●	●	●	●	●	●	●
Sodium						●	●		●			●	●					●		●								●	●	●																				●	●				●		●	●		●			●
Thallium		●	●	●	●	●	●	●	●	●		●	●			●		●	●		●	●		●	●	●		●	●	●		●		●		●	●	●			●	●			●	●		●	●	●		●	●	●	●	●	●	●	●	●	●
Vanadium	●	●			●	●	●	●	●		●	●	●	●	●				●	●			●	●	●			●	●	●	●	●		●		●	●	●		●	●	●		●	●	●		●	●	●	●	●			●		●	●	●	●	●		●
Zinc	●				●		●	●			●		●	●	●			●		●		●	●			●		●		●	●						●	●	●	●	●				●		●		●		●			●		●		●	●	●	●	●		
Metals, Dissolved																																																																		
Aluminum, Dissolved				●				●			●								●	●			●					●			●					●							●												●			●	●				●		
Antimony, Dissolved	●				●			●							●													●								●				●				●							●				●			●	●				●		
Arsenic, Dissolved																								●												●																						●							
Barium, Dissolved					●			●			●				●					●				●				●								●				●				●				●												●						
Beryllium, Dissolved	●				●										●					●								●								●				●				●														●						
Boron, Dissolved											●																				●																				●				●			●	●				●		
Cadmium, Dissolved															●					●																																						●						
Calcium, Dissolved																				●																																						●						
Chromium, Dissolved																				●								●												●														●				●			●	●				●		
Cobalt, Dissolved	●										●				●					●								●								●														●								●						
Copper, Dissolved																			●				●								●					●																						●	●						
Iron, Dissolved								●																																			●														●	●						
Lead, Dissolved								●															●													●			●														●				●			●	●				●		
Lithium, Dissolved																				●								●												●														●							●	●				●		
Magnesium, Dissolved	●				●																							●								●																						●	●						
Manganese, Dissolved								●			●									●								●												●				●				●										●	●						
Mercury, Dissolved																																																																		
Nickel, Dissolved	●			●							●				●				●	●								●			●					●														●			●				●			●	●				●		
Potassium, Dissolved																				●																●				●														●				●			●	●				●		
Selenium, Dissolved															●					●								●								●				●														●				●			●	●				●		
Silver, Dissolved				●															●				●				●				●							●				●														●				●						●		
Sodium, Dissolved																				●								●																														●							
Thallium, Dissolved				●	●			●							●				●					●												●				●				●				●								●				●			●	●				●		
Vanadium, Dissolved											●				●					●								●								●																●								●				●			
Zinc, Dissolved																							●								●																										●							●	●				●		

Table 7-1 Sitewide SRC Summary and COC/ROC Identification (Subsistence Farmer Scenario)

	EU1				EU2			EU3			EU4				EU5					EU6				EU7				EU8			
	GW	SB	SS	SW	GW	SB	SS	GW	SB	SS	GW	SB	SS	SW	GW	SB	SD	SS	SW	GW	SB	SS	SW	GW	SB	SS	SW	GW	SB	SS	SW
PAHs																															
Acenaphthene							•	•				•																		•	
Acenaphthylene						•	•					•	•					•													
Anthracene							•	•			•	•							•						•				•	•	
Benzo(a)anthracene					•		•						•						•						•				•	•	
Benzo(a)pyrene							•					•	•																•	•	
Benzo(b)fluoranthene							•					•	•					•							•				•	•	
Benzo(g,h,i)perylene			•			•	•			•		•	•					•								•			•	•	
Benzo(k)fluoranthene					•		•					•	•																•	•	
Chrysene							•					•	•						•						•				•	•	
Dibenzo(a,h)anthracene					•		•																			•				•	
Fluoranthene							•	•			•	•													•				•	•	
Fluorene						•	•	•				•	•												•				•	•	
Indeno(1,2,3-cd)pyrene							•			•		•	•					•							•				•	•	
Naphthalene			•			•	•				•	•	•													•			•	•	
Phenanthrene							•	•			•	•													•			•	•	•	
Pyrene							•	•			•	•	•						•						•				•	•	
PCBs																															
Aroclor-1242						•																									
Aroclor-1254						•			•			•	•					•			•	•			•				•		
Aroclor-1260		•	•			•	•		•	•		•	•			•		•			•	•	•	•	•	•			•	•	
Pesticides																															
4,4'-DDD	•		•			•	•		•			•													•				•		
4,4'-DDE		•	•			•	•		•	•	•	•	•					•			•	•			•	•		•	•	•	
4,4'-DDT		•	•			•	•		•	•	•	•	•			•		•			•				•	•			•	•	
Aldrin																															
alpha-BHC												•																•			
alpha-Chlordane																															
beta-BHC												•																			
delta-BHC												•										•									
Dieldrin		•				•	•		•													•			•				•		
Endosulfan I																															
Endosulfan II	•																														
Endosulfan sulfate	•								•			•													•						
Endrin																															
Endrin aldehyde									•			•													•						
Endrin ketone									•																•						
gamma-BHC (Lindane)												•																			
gamma-Chlordane																				•											
Heptachlor																													•		
Heptachlor epoxide								•																					•		
Methoxychlor									•			•													•						
Radionuclides																															
Actinium-227		•	•			•	•			•								•			•	•			•	•			•	•	
Americium-241		•											•																		
Cesium-137		•	•		•	•	•				•	•	•			•	•	•		•	•	•			•	•			•	•	
Lead-210																															
Plutonium-239/240																													•		
Potassium-40		•															•														
Protactinium-231																					•										
Radium-226	•	•	•	•	•	•	•		•	•	•	•	•		•	•		•		•	•	•	•	•	•	•	•	•	•	•	
Radium-228		•	•			•	•				•									•					•						
Strontium-90																															
Thorium-228	•	•	•		•	•		•	•		•	•	•		•	•				•	•			•	•		•	•	•	•	
Thorium-230		•	•			•	•		•	•	•	•	•			•		•			•	•		•	•	•	•	•	•	•	
Thorium-232	•	•	•		•				•		•	•			•				•				•	•	•	•	•	•		•	
Total Activity																															
Total Uranium	•	•	•		•	•	•	•	•	•	•	•	•			•	•	•		•	•	•		•	•	•		•	•	•	
Uranium-234	•	•	•		•	•	•		•	•	•	•	•			•		•		•	•	•		•	•	•	•	•	•	•	
Uranium-235	•	•	•		•	•	•		•	•	•	•			•	•		•		•	•	•		•	•	•		•	•	•	
Uranium-238	•	•	•		•	•	•	•	•	•	•	•	•		•	•		•		•	•	•		•	•	•	•	•	•	•	

	EU9				EU10				EU11				EU12				EU13			EU14			EU15		EU16			EU17					EU17D
	SB	SD	SS	SW	GW	SB	SS	SW	GW	SB	SS	SW	GW	SB	SS	SW	GW	SB	SS	GW	SB	SS	SD	SW	SB	SD	SW	GW	SB	SD	SS	SW	SB
PAHs																																	
Acenaphthene							•				•								•							•					•		
Acenaphthylene											•																						
Anthracene							•				•				•				•						•	•	•				•		
Benzo(a)anthracene							•				•				•			•	•	•						•	•		•		•		
Benzo(a)pyrene							•				•				•			•	•	•						•			•		•		
Benzo(b)fluoranthene							•				•				•			•	•							•	•		•		•		
Benzo(g,h,i)perylene							•				•				•				•	•						•			•		•		•
Benzo(k)fluoranthene											•				•					•						•	•		•		•		
Chrysene							•				•				•				•							•	•		•		•		
Dibenzo(a,h)anthracene							•				•									•						•					•		
Fluoranthene							•				•		•		•		•		•							•	•		•		•		
Fluorene							•				•								•						•	•					•		
Indeno(1,2,3-cd)pyrene							•				•				•				•	•						•					•		
Naphthalene											•			•	•			•	•			•			•	•					•		
Phenanthrene							•				•				•		•		•							•	•		•		•		
Pyrene							•				•								•							•	•		•		•		
PCBs																																	
Aroclor-1242											•																						
Aroclor-1254			•			•				•	•							•	•							•	•		•	•	•		•
Aroclor-1260			•				•				•				•			•	•							•	•		•		•		
Pesticides																																	
4,4'-DDD																	•									•							
4,4'-DDE					•	•	•		•	•	•			•	•		•	•	•						•	•		•	•		•		•
4,4'-DDT	•		•		•	•	•		•	•	•			•	•			•	•		•					•	•	•	•		•		•
Aldrin																										•							
alpha-BHC																										•	•						
alpha-Chlordane																									•	•							
beta-BHC																										•							
delta-BHC																									•	•							
Dieldrin							•										•	•							•	•							
Endosulfan I																										•							
Endosulfan II																	•																
Endosulfan sulfate																										•							
Endrin																	•									•							
Endrin aldehyde																		•								•							
Endrin ketone																		•								•							
gamma-BHC (Lindane)																										•	•						
gamma-Chlordane																																	
Heptachlor										•	•														•	•							
Heptachlor epoxide																									•	•	•						
Methoxychlor																									•								
Radionuclides																																	
Actinium-227										•	•				•				•			•							•		•		
Americium-241																																	
Cesium-137					•		•			•	•				•		•			•	•	•	•			•	•	•	•	•	•		
Lead-210																																	
Plutonium-239/240																		•											•				
Potassium-40		•																								•			•	•			
Protactinium-231																																	
Radium-226	•		•	•	•	•	•	•	•	•	•		•	•	•		•	•	•	•	•	•		•		•	•	•	•		•	•	•
Radium-228	•	•	•		•				•		•		•	•												•		•	•		•		•
Strontium-90																										•							
Thorium-228	•	•			•	•			•	•			•	•	•		•	•		•	•		•			•	•	•	•	•	•	•	•
Thorium-230	•		•		•	•	•		•	•	•		•	•	•		•	•	•	•	•	•				•	•	•	•		•	•	•
Thorium-232	•		•	•	•	•	•		•	•	•		•	•	•		•	•	•	•	•			•	•	•	•	•	•		•	•	•
Total Activity						•																				•							
Total Uranium	•		•	•	•	•	•		•	•	•	•	•	•	•		•	•	•	•	•	•		•		•	•	•	•	•	•	•	
Uranium-234	•		•	•	•	•	•		•	•	•		•	•	•		•	•	•	•	•	•		•		•	•	•	•		•	•	
Uranium-235	•		•	•	•	•	•		•	•	•		•	•	•		•	•	•		•	•			•	•	•	•	•		•	•	•
Uranium-238	•		•	•	•	•	•		•	•	•		•	•	•		•	•	•	•	•	•				•	•	•	•		•	•	•

Table 7-1 Sitewide SRC Summary and COC/ROC Identification (Subsistence Farmer Scenario)

	EU1				EU2			EU3			EU4				EU5					EU6				EU7				EU8				EU9				EU10				EU11				EU12				EU13			EU14			EU15		EU16			EU17					EU17D
	GW	SB	SS	SW	GW	SB	SS	GW	SB	SS	GW	SB	SS	SW	GW	SB	SD	SS	SW	GW	SB	SS	SW	GW	SB	SS	SW	GW	SB	SS	SW	SB	SD	SS	SW	GW	SB	SS	SW	GW	SB	SS	SW	GW	SB	SS	SW	GW	SB	SS	GW	SB	SS	SD	SW	SB	SD	SW	GW	SB	SD	SS	SW	SB
Radionuclides, Dissolved																																																																			
Americium-241, Dissolved																																			●																														●		
Cesium-137, Dissolved																																																		●																	
Potassium-40, Dissolved																																								●																				●					
Radium-226, Dissolved																								●												●				●																		●	●					
Radium-228, Dissolved																				●																●																						●	●					
Thorium-228, Dissolved					●						●																	●							●				●								●			●								●				●	
Thorium-230, Dissolved											●													●				●								●				●								●									●	●					
Thorium-232, Dissolved																																								●																		●					
Total Activity, Dissolved																																																										●					
Total Uranium, Dissolved	●				●						●									●				●				●								●				●				●				●			●						●	●					
Uranium-234, Dissolved	●				●						●													●				●							●	●				●				●				●			●						●	●				●	
Uranium-235, Dissolved	●				●						●													●				●							●	●				●				●				●			●						●	●				●	
Uranium-238, Dissolved	●				●						●													●				●							●	●				●				●				●			●						●	●				●	
Semivolatile Organics																																																																			
2-Chlorophenol																												●						●																																	
2-Methylnaphthalene			●									●																	●	●												●				●	●				●				●						●				●		
Benzoic Acid													●																																	●																				
bis(2-Ethylhexyl)phthalate	●				●		●				●									●								●								●												●			●						●	●		●		●			
Butylbenzylphthalate																																									●																		●							
Carbazole							●				●																											●																				●				●			
Dibenzofuran																																									●				●	●				●								●							
Diethylphthalate																																								●	●																									
Di-n-butylphthalate											●																	●												●				●							●						●	●		●					
Di-n-octylphthalate			●																																																	●														
Isophorone											●																																																							
m,p-Cresols												●																						●																			●												
o-Cresol																																															●																		
p-Cresol																																																										●					
Pentachlorophenol																																													●																		
Phenol	●				●															●								●							●	●												●			●								●					
Volatile Organics																																																																			
1,1,1-Trichloroethane																		●										●													●																									
1,1,2-Trichloroethane											●																																																							
1,1-Dichloroethane																												●																																							
1,1-Dichloroethene			●						●		●	●	●			●		●								●		●	●	●				●			●	●			●									●			●					●			●		●			●
1,2-Dichloroethane																																																		●																	
1,2-Dichloroethene																												●																																●					
2-Butanone	●		●		●	●	●				●	●						●		●		●				●	●	●	●							●		●				●			●	●			●	●			●				●	●	●	●	●		●		
2-Hexanone							●															●																																													
4-Methyl-2-pentanone											●																																														●									
Acetone		●	●			●	●		●		●	●	●			●		●			●	●			●	●			●	●						●		●			●	●			●	●			●					●	●	●	●	●		●		●
Benzene			●			●	●				●					●		●				●				●								●							●															●		●			●		●		●
Carbon disulfide			●			●	●	●			●	●						●				●				●		●												●	●											●				●			●		●		●
Chloroform	●										●																		●	●		●																																		
Chloromethane																																																		●																	
cis-1,2-Dichloroethene											●	●																																						●	●								●	●					
Ethylbenzene			●			●					●													●																																		●							
Methylene chloride						●					●	●					●				●	●		●				●	●							●								●	●			●	●	●				●			●		●	●	●				
Styrene											●																																																							
Tetrachloroethene					●						●		●					●										●	●	●																			●	●	●		●					●	●	●			●		
Toluene			●			●	●		●			●	●			●		●			●	●			●	●			●	●		●		●				●			●	●			●					●	●		●					●	●		●		●	
trans-1,2-Dichloroethene											●	●																																							●								●							
Trichloroethene											●	●	●					●										●																						●	●	●		●					●	●		●			
Vinyl chloride											●																																																							
Xylenes (total)			●			●	●				●					●		●	●			●							●													●																				●				●

● Constituent identified as SRC

● Constituent identified as SRC and media COC

Constituent identified as SRC and food pathway COC

Constituent identified as SRC, media COC and food pathway COC

Constituent not identified as SRC but as media COC

Constituent not identified as SRC but as food pathway COC

Note: SB SRCs identified based on 0-10' UTL; however, SB represents 0.5-10' interval only (i.e. SS exceedances are not inlcuded)