



**Checking a Total Organic Carbon Analyzer Run**

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**APPENDIX E**  
**Summary of Groundwater**  
**Monitoring**

**TABLE E-1**

**Supporting Groundwater Monitoring Stations Sampled in 1990 ( $\mu\text{Ci/mL}$ )**

Location Code	Date Sampled	pH	Conductivity <sup>1</sup>	Alpha	Beta	H-3	Cs-137	Co-60
<b>Wells Near Site Facilities</b>								
WNW80-03	06/20/90	6.83	546	< 3.19E-09	2.41±.13E-07	1.37±1.13E-07	< 3.7E-08	< 3.8E-08
WNW80-03	11/08/90	7.10	450	< 2.80E-09	1.61±.08E-07	< 1.10E-07	< 3.7E-08	< 3.8E-08
WNW80-04	06/20/90	7.03	560	< 3.01E-09	1.72±.32E-08	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW80-04	11/08/90	7.20	816	< 1.29E-08	3.24±.45E-08	< 1.00E-07	< 3.7E-08	< 3.8E-08
<b>Wells Near NRC-licensed Disposal Unit</b>								
WNW82-1A	06/20/90	7.15	1291	< 9.89E-09	9.34±5.15E-09	< 1.10E-07	< 3.7E-08	< 3.8E-08
WNW82-1A	12/06/90	7.24	1139	1.52±.90E-08	3.79±3.56E-09	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW82-1B	06/20/90	7.02	1315	< 1.19E-08	1.11±.43E-08	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW82-1B	12/06/90	7.39	1168	< 4.52E-09	6.79±3.84E-09	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW82-1C	06/22/90	7.78	382	8.91±7.56E-09	7.46±4.68E-09	1.75±1.14E-07	< 3.7E-08	< 3.8E-08
WNW82-1C	12/06/90	7.74	357	< 5.94E-09	< 6.27E-09	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW82-2B	06/22/90	7.32	742	4.82±2.94E-08	9.30±4.45E-09	2.80±1.17E-07	< 3.7E-08	< 3.8E-08
WNW82-2B	12/06/90	7.60	736	1.21±1.18E-08	1.39±.76E-08	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW82-2C	*****	*****	Sample Location Was Dry			*****		
WNW82-2C	12/06/90	*****	Limited Sample Volume		*****	< 1.00E-07	*****	
WNW82-3A	***** Sample Location Was Dry *****							
WNW82-3A	12/06/90	7.59	536	3.13±2.75E-09	8.69±2.60E-09	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW82-4A1	06/20/90	6.79	1433	< 1.22E-08	< 4.89E-09	7.50±.22E-05	< 3.7E-08	< 3.8E-08
WNW82-4A1	12/07/90	6.71	1390	1.40±1.04E-08	1.09±.55E-08	8.43±.25E-05	< 3.7E-08	< 3.8E-08
WNW82-4A2	06/20/90	6.75	1239	< 1.20E-08	< 5.24E-09	< 1.14E-07	< 3.7E-08	< 3.8E-08
WNW82-4A2	12/07/90	6.87	1316	1.32±1.15E-08	4.81±4.62E-09	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW82-4A3	06/20/90	6.69	1456	< 1.93E-08	< 4.98E-09	1.45±1.12E-07	< 3.7E-08	< 3.8E-08
WNW82-4A3	12/07/90	6.84	1367	< 3.07E-09	< 4.87E-09	< 1.00E-07	< 3.7E-08	< 3.8E-08

<sup>1</sup> Measured in  $\mu\text{mhos/cm}$  @ 25°C

**TABLE E - 2**

**1990 Fuel Tank Groundwater Monitoring**

<b>PARAMETER</b>	<b>WNW86-13</b>	<b>WNW86-13</b>	<b>WNW86-13</b>
	<i>(Sample date: 2-5-90)</i>	<i>(Sample date: 4-12-90)</i>	<i>(Sample date: 10-11-90)</i>
<b>pH</b>	6.97	7.20	7.22
<b>Conductivity (<math>\mu</math>mhos/cm)</b>	639	580	588
<b>TOC (mg/L)</b>	2.00	1.70	3.40
<b>Phenols (mg/L)</b>	< .007	< .005	.010
<b>Benzene (<math>\mu</math>g/L)</b>	< 5.00	< 5.00	< 0.40
<b>Toluene (<math>\mu</math>g/L)</b>	< 5.00	< 5.00	< 0.20
<b>Xylene –total (<math>\mu</math>g/L)</b>	< 5.00	< 5.00	N/A
<b>o-xylene (<math>\mu</math>g/L)</b>	N/A	N/A	< 0.20
<b>m-xylene (<math>\mu</math>g/L)</b>	N/A	N/A	< 0.20
<b>p-xylene (<math>\mu</math>g/L)</b>	N/A	N/A	< 0.20
<b>H-3 (<math>\mu</math>Ci/mL)</b>	< 1.00E-07	< 1.00E-07	2.12 $\pm$ 1.15E-07
<b>Alpha (<math>\mu</math>Ci/mL)</b>	< 4.44E-09	< 2.24E-09	< 4.28E-09
<b>Beta (<math>\mu</math>Ci/mL)</b>	3.57 $\pm$ 2.26E-09	3.71 $\pm$ 1.64E-09	5.46 $\pm$ 2.09E-09

N/A - Not available

**TABLE E - 3**

**1990 Water Quality Parameters for the High-level Waste Storage and Processing Area (mg/L)**

Location Code	Hydraulic Position	Sample Date	pH	Conductivity <sup>2</sup>	TOC	Phenols	TOH	Chloride	Nitrate-N	Sulfate	Fluoride
<b>***Quality Standards<sup>1</sup>***</b>			6.5-8.5	N/A	N/A	.001	N/A	250	10	250	1.5
WNW80-02	UP	02/05/90	8.45	422	1.3	<.008	<.010	55.0	.51	12.0	<.10
WNW80-02	UP	04/12/90	7.71	466	< 1.0	<.005	<.010	57.0	.50	34.0	<.10
WNW80-02	UP	06/05/90	7.64	493	< 1.0	<.007	<.005	65.5	.51	16.8	<.10
WNW80-02	UP	06/14/90	7.81	503	1.40	<.007	<.005	63.5	.91	19.4	<.10
WNW80-02	UP	09/10/90	7.69	434	N/A	<.006	<.005	57.6	.37	12.3	.10
WNW80-02	UP	09/26/90	7.69	450	1.50	<.008	<.005	60.0	.51	38.7	<.10
WNW80-02	UP	10/24/90	7.74	465	< 1.0	<.009	<.005	65.3	.77	43.0	<.10
WNW80-02	UP	11/07/90	7.59	479	< 1.0	<.005	.007	61.4	.72	14.5	<.10
WNDMPNE <sup>3</sup>	DOWN	02/06/90	6.62	602	6.5	<.008	<.010	39.0	.51	58.0	<.10
WNDMPNE	DOWN	04/12/90	6.55	452	5.2	<.005	<.010	22.0	.77	40.0	<.10
WNDMPNE	DOWN	05/31/90	6.79	618	3.8	<.008	.020	69.0	1.20	34.0	<.10
WNDMPNE	DOWN	06/15/90	6.62	721	3.7	<.008	.007	93.8	1.20	33.4	.11
WNDMPNE	DOWN	09/12/90	6.72	661	5.1	.130	.012	67.0	.73	20.4	.12
WNDMPNE	DOWN	09/27/90	6.73	679	5.6	<.008	.025	64.7	1.10	198	<.10
WNDMPNE	DOWN	10/25/90	6.57	611	6.1	<.009	.017	45.0	.44	27.2	<.10
WNDMPNE	DOWN	11/12/90	6.60	494	5.3	<.008	.007	28.9	.55	23.5	<.10
WNW86-07	DOWN	02/12/90	6.08	748	< 1.0	<.008	<.010	70.0	1.20	130	<.10
WNW86-07	DOWN	04/09/90	6.07	686	1.3	<.008	.010	38.0	.68	140	<.10
WNW86-07	DOWN	05/24/90	6.43	723	2.3	<.020	.097	31.3	.78	120	<.10
WNW86-07	DOWN	06/15/90	6.38	560	1.9	<.008	.007	27.5	1.60	135	<.10
WNW86-07	DOWN	07/30/90	6.10	674	1.1	<.009	<.005	22.4	1.60	144	<.10
WNW86-07	DOWN	09/24/90	5.96	645	1.7	<.008	<.005	22.8	.18	141	<.10
WNW86-07	DOWN	10/24/90	6.07	536	1.1	<.020	.007	15.4	.67	108	<.10
WNW86-07	DOWN	11/07/90	6.14	560	< 1.0	.021	.006	12.2	.64	131	<.10

<sup>1</sup> Quality standards for Class GA groundwater are from 6 NYCRR Part 703.5

<sup>2</sup> Measured in  $\mu$ mhos/cm at 25°C

<sup>3</sup> Monitors the construction and demolition debris landfill (CDDL)

N/A - Not available

**TABLE E - 3 (continued)**

**1990 Water Quality Parameters for the High-level Waste Storage and Processing Area (mg/L)**

Location Code	Hydraulic Position	Sample Date	pH	Conductivity <sup>2</sup>	TOC	Phenols	TOH	Chloride	Nitrate-N	Sulfate	Fluoride
***Quality Standards <sup>1</sup> ***			6.5-8.5	N/A	N/A	.001	N/A	250	10	250	1.5
WNW86-08	DOWN	02/12/90	6.66	533	5.3	<.008	<.010	31.0	.23	160	.12
WNW86-08	DOWN	04/12/90	6.94	483	7.1	<.005	<.010	13.0	.098	79	<.10
WNW86-08	DOWN	05/24/90	6.58	449	8.2	<.007	<.005	9.9	.23	110	.11
WNW86-08	DOWN	06/15/90	6.80	290	13.7	<.008	.006	10.2	.14	75	.14
WNW86-08	DOWN	07/30/90	6.50	611	5.9	<.010	.005	15.7	.21	144	<.10
WNW86-08	DOWN	09/24/90	6.63	589	6.7	<.008	.009	15.0	.20	131	.13
WNW86-08	DOWN	10/24/90	6.73	517	6.3	<.020	.023	11.3	.12	164	.13
WNW86-08	DOWN	11/07/90	6.82	529	4.2	<.009	.030	10.0	.10	278	.11
WNW86-09	DOWN	02/12/90	7.20	634	<1.0	<.008	<.010	32.0	1.90	28.0	<.10
WNW86-09	DOWN	04/12/90	7.06	630	5.9	<.005	.010	33.0	3.50	34.0	<.10
WNW86-09	DOWN	05/24/90	7.17	640	4.6	<.020	.021	35.0	.11	67.2	<.10
WNW86-09	DOWN	06/15/90	7.24	640	3.1	<.007	.016	40.7	.14	98.5	<.10
WNW86-09	DOWN	07/26/90	7.16	649	6.8	.015	.014	44.0	1.70	21.9	<.10
WNW86-09	DOWN	09/27/90	7.00	525	1.6	<.008	.013	24.8	.32	27.8	<.10
WNW86-09	DOWN	10/24/90	7.16	690	1.9	<.008	.019	47.3	2.90	47.2	<.10
WNW86-09	DOWN	11/07/90	7.10	697	1.2	<.009	.015	43.0	4.00	13.4	<.10
WNW86-12	DOWN	03/08/90	7.50	694	2.8	<.008	<.010	50.0	<.05	60.0	<.10
WNW86-12	DOWN	04/26/90	7.75	712	<1.0	<.008	<.010	50.0	<.05	63.0	<.10
WNW86-12	DOWN	05/31/90	7.32	707	<1.0	<.007	.011	49.0	.059	120	<.10
WNW86-12	DOWN	06/15/90	7.36	706	1.3	<.008	.005	53.6	.21	67.8	<.10
WNW86-12	DOWN	09/10/90	7.24	713	N/A	.005	.017	59.8	.066	57.0	.06
WNW86-12	DOWN	09/27/90	7.30	724	<1.0	<.008	<.005	60.0	.092	30.4	<.10
WNW86-12	DOWN	10/25/90	7.41	726	<1.0	<.010	.018	62.3	.050	60.2	<.10
WNW86-12	DOWN	11/08/90	7.31	730	<1.0	<.008	.010	58.0	<.050	65.2	<.10

<sup>1</sup> Quality standards for Class GA groundwater are from 6 NYCRR Part 703.5

<sup>2</sup> Measured in  $\mu$ mhos/cm at 25°C

<sup>3</sup> Monitors the construction and demolition debris landfill (CDDL)

N/A - Not available

TABLE E - 4

1990 Total Metals for the High-level Waste Storage and Processing Area (mg/L)

Location Code	Hydraulic Sample Position	Arsenic Date	Barium	Cadmium	Chromium	Iron	Lead	Manganese	Mercury	Selenium	Silver	Sodium
<b>**Quality Standards<sup>1</sup>**</b>			.025	1.0	.01	.05	.30	.025	.30	.002	.01	.05 <20
WNW80-02	UP	02/05/90	<.005	<.05	.005	.016	9.3	.009	.076	<.0004	<.005	<.010 2.2
WNW80-02	UP	04/12/90	<.005	.10	<.005	<.010	3.3	<.005	.078	.0005	<.005	<.010 4.9
WNW80-02	UP	06/05/90	<.005	.10	.006	.016	1.7	<.005	.038	<.0004	<.005	<.010 4.7
WNW80-02	UP	06/14/90	<.005	<.08	.010	<.010	1.2	<.005	.036	<.0004	<.005	<.010 3.9
WNW80-02	UP	09/10/90	<.005	.17	<.005	<.010	.98	.003	.030	<.0004	<.005	<.005 <5.0
WNW80-02	UP	09/26/90	<.005	.099	<.005	<.010	4.2	.013	.079	<.0004	<.005	<.005 4.5
WNW80-02	UP	10/24/90	<.005	.10	.009	<.010	3.3	.009	.066	.0012	<.005	<.006 11.3
WNW80-02	UP	11/07/90	<.005	.10	<.005	<.010	8.9	.026	.084	<.0004	<.005	<.005 5.6
WNDMPNE <sup>2</sup>	DOWN	02/06/90	<.005	.11	<.005	.014	6.7	.006	.33	<.0004	<.005	<.010 11.0
WNDMPNE	DOWN	04/12/90	<.005	.05	<.005	<.010	4.0	<.005	.34	<.0004	<.005	<.010 9.0
WNDMPNE	DOWN	05/31/90	<.005	.09	.005	.014	.10	<.005	.018	<.0004	<.005	<.010 19.0
WNDMPNE	DOWN	06/15/90	<.005	.08	<.005	<.010	.07	<.005	.015	<.0004	<.005	<.010 19.4
WNDMPNE	DOWN	09/12/90	<.005	.12	.005	<.010	2.8	<.003	.095	<.0004	<.005	<.005 26.5
WNDMPNE	DOWN	09/27/90	<.005	.11	<.005	<.010	3.5	.003	.23	<.0004	<.005	<.005 24.2
WNDMPNE	DOWN	10/25/90	<.005	<.15	<.005	<.010	3.2	.016	.20	<.0004	<.005	<.006 13.6
WNDMPNE	DOWN	11/12/90	<.005	<.15	.007	<.010	.33	<.003	.19	<.0004	<.005	<.006 14.0
WNW86-07	DOWN	02/12/90	.036	<.06	.008	<.010	.21	<.005	.64	<.0004	<.005	<.005 17.0
WNW86-07	DOWN	04/09/90	<.005	<.05	.006	<.010	.31	<.005	.57	<.0004	<.005	<.010 16.0
WNW86-07	DOWN	05/24/90	<.005	.10	<.005	.013	2.6	<.005	.45	<.0004	<.005	<.010 12.5
WNW86-07	DOWN	06/15/90	<.005	.05	.007	<.010	1.4	<.005	.36	<.0004	<.005	<.010 10.8
WNW86-07	DOWN	07/30/90	<.005	<.07	<.005	<.010	.24	.005	.35	<.0004	<.005	<.010 12.6
WNW86-07	DOWN	09/24/90	<.005	<.05	<.005	<.010	.14	<.003	.29	<.0004	<.005	<.005 21.6
WNW86-07	DOWN	10/24/90	<.005	<.05	.008	<.010	.25	<.003	.41	<.0004	<.005	.007 40.8
WNW86-07	DOWN	11/07/90	<.005	<.05	<.005	<.010	.31	.010	.61	<.0004	<.005	<.005 19.2

<sup>1</sup> Quality standards for Class GA groundwater are from 6 NYCRR Part 703.5

<sup>2</sup> Monitors the construction and demolition debris landfill (CDDL)

N/A - Not available

**TABLE E - 4 (continued)**

**1990 Total Metals for the High-level Waste Storage and Processing Area (mg/L)**

Location Code	Hydraulic Position	Sample Date	Arsenic	Barium	Cadmium	Chromium	Iron	Lead	Manganese	Mercury	Selenium	Silver	Sodium
<i>***Quality Standards<sup>1</sup>***</i>			.025	1.0	.01	.05	.30	.025	.30	.002	.01	.05	<20
WNW86-08	DOWN	02/12/90	.043	.28	.010	.013	24.0	.670	8.3	<.0004	<.005	<.005	19.0
WNW86-08	DOWN	04/12/90	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WNW86-08	DOWN	05/24/90	.011	.15	<.005	.017	15.4	.015	5.8	<.0004	<.005	<.010	7.5
WNW86-08	DOWN	06/15/90	.029	.29	.011	.038	55.4	.034	7.1	<.0004	<.005	<.010	7.5
WNW86-08	DOWN	07/30/90	<.005	.11	<.005	<.010	0.85	.005	8.0	<.0004	<.005	<.010	10.2
WNW86-08	DOWN	09/24/90	<.005	.14	<.005	<.010	3.4	.011	6.8	<.0004	<.005	<.005	13.8
WNW86-08	DOWN	10/24/90	.012	.16	.009	.014	19.6	.022	9.9	.0008	<.005	.007	25.1
WNW86-08	DOWN	11/07/90	<.005	.21	.011	.022	31.1	.024	9.4	<.0004	<.005	<.005	11.2
WNW86-09	DOWN	02/12/90	.029	.27	.014	<.010	10.0	.012	.29	<.0004	<.005	<.005	8.9
WNW86-09	DOWN	04/12/90	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WNW86-09	DOWN	05/24/90	.010	.35	<.005	.030	21.9	.022	.68	<.0004	<.005	<.010	7.4
WNW86-09	DOWN	06/15/90	<.005	.19	.010	<.010	<.05	.009	<.005	<.0004	<.005	<.010	6.8
WNW86-09	DOWN	07/26/90	.015	.24	<.010	<.010	10.5	<.005	.34	<.0004	<.005	<.007	9.4
WNW86-09	DOWN	09/27/90	<.005	.21	<.005	<.010	4.0	.006	.13	<.0004	<.005	<.005	9.8
WNW86-09	DOWN	10/24/90	<.005	.23	.008	<.010	8.8	.008	.24	.0020	<.005	<.006	22.7
WNW86-09	DOWN	11/07/90	<.005	.21	.010	<.010	2.2	.006	.071	<.0004	<.005	<.005	10.5
WNW86-12	DOWN	03/08/90	<.005	.33	.012	<.010	2.1	<.005	.11	<.0004	<.005	<.005	12.0
WNW86-12	DOWN	04/26/90	<.005	.35	.010	<.010	1.5	<.005	.11	<.0004	<.005	<.005	12.0
WNW86-12	DOWN	05/31/90	<.005	.39	<.005	<.010	0.67	<.005	.099	<.0004	<.005	<.010	10.0
WNW86-12	DOWN	06/15/90	.015	.31	<.005	<.010	11.0	.005	.25	<.0004	<.005	<.010	8.90
WNW86-12	DOWN	09/10/90	.005	.49	<.005	<.010	2.6	<.003	.12	<.0004	<.005	<.005	13.0
WNW86-12	DOWN	09/27/90	<.005	.39	<.005	<.010	0.92	<.003	.11	<.0004	<.005	<.005	12.1
WNW86-12	DOWN	10/25/90	<.005	.45	.006	<.010	1.9	<.003	.11	<.0004	<.005	<.006	12.4
WNW86-12	DOWN	11/08/90	<.005	.44	.009	<.010	1.3	.015	.10	<.0004	<.005	<.005	11.0

<sup>1</sup> Quality standards for Class GA groundwater are from 6 NYCRR Part 703.5

<sup>2</sup> Monitors the construction and demolition debris landfill (CDDL)

N/A - Not available



TABLE E - 5

1990 Dissolved Metals for the High-level Waste Storage and Processing Area (mg/L)

Location Code	Hydraulic Sample Position	Arsenic	Barium	Cadmium	Chromium	Iron	Lead	Manganese	Mercury	Selenium	Silver	Sodium	
<b>**Quality Standards<sup>1***</sup></b>			.025	1.0	.01	.05	.30	.025	.30	.002	.01	.05 <20	
WNW80-02	UP	02/05/90	<.005	.07	<.005	<.020	<.05	<.005	.014	<.0004	<.005	<.010	2.1
WNW80-02	UP	04/12/90	<.005	.06	<.005	<.010	<.05	<.005	.010	.0005	<.005	<.010	5.3
WNW80-02	UP	06/05/90	<.005	.10	<.005	<.010	<.05	<.005	.020	<.0004	<.005	<.010	4.8
WNW80-02	UP	06/14/90	<.005	.10	<.005	<.010	<.05	<.005	.006	<.0004	<.005	<.010	4.5
WNW80-02	UP	09/10/90	<.005	.13	<.005	<.010	<.05	<.003	.005	<.0004	<.005	<.005	<5.0
WNW80-02	UP	09/26/90	<.005	.09	<.005	<.010	<.02	<.003	.014	<.0004	<.005	<.005	4.4
WNW80-02	UP	10/24/90	<.005	.10	<.005	<.010	<.05	<.003	.011	<.0004	<.005	<.005	2.6
WNW80-02	UP	11/07/90	<.005	.096	<.005	<.010	<.02	<.003	.013	<.0004	<.005	<.005	4.9
WNDMPNE <sup>2</sup>	DOWN	02/06/90	<.005	.09	<.005	.011	<.05	<.005	.085	<.0004	<.005	<.010	12.0
WNDMPNE	DOWN	04/12/90	<.005	.05	<.005	<.010	<.05	<.005	.017	<.0004	<.005	<.010	9.1
WNDMPNE	DOWN	05/31/90	<.005	.07	.005	<.010	<.05	<.005	.012	<.0004	<.005	<.010	21.0
WNDMPNE	DOWN	06/15/90	<.005	.11	<.005	<.010	<.05	<.005	.016	<.0004	<.005	<.010	26.8
WNDMPNE	DOWN	09/12/90	<.005	.10	<.005	<.010	.10	<.003	.084	<.0004	<.005	<.005	25.2
WNDMPNE	DOWN	09/27/90	<.005	.092	<.005	<.010	<.02	<.003	.022	<.0004	<.005	<.005	23.7
WNDMPNE	DOWN	10/25/90	<.005	<.10	<.005	<.010	<.05	<.003	.071	<.0004	<.005	<.006	16.0
WNDMPNE	DOWN	11/12/90	<.005	<.15	<.005	<.010	.05	<.003	<.007	<.0004	<.005	<.006	12.9
WNW86-07	DOWN	02/12/90	.012	<.06	<.005	<.010	<.03	<.005	.58	<.0004	<.005	<.005	19.0
WNW86-07	DOWN	04/09/90	<.005	<.05	<.005	<.010	<.05	<.005	.42	<.0004	<.005	<.010	17.0
WNW86-07	DOWN	05/24/90	<.005	<.06	<.005	.010	.91	<.005	.39	<.0004	<.005	<.010	13.7
WNW86-07	DOWN	06/15/90	<.005	<.05	<.005	<.010	<.05	<.005	.012	<.0004	<.005	<.010	14.8
WNW86-07	DOWN	07/30/90	<.005	<.05	<.005	.016	<.05	<.005	.045	<.0004	<.005	<.010	13.5
WNW86-07	DOWN	09/24/90	<.005	<.05	<.005	<.010	<.02	<.003	.24	<.0004	<.005	<.005	20.0
WNW86-07	DOWN	10/24/90	<.005	.06	<.005	<.010	<.05	<.003	.26	<.0004	<.005	<.005	16.6
WNW86-07	DOWN	11/07/90	<.005	<.05	<.005	<.010	<.02	<.003	.43	<.0004	<.005	<.005	18.7

<sup>1</sup> Quality standards for Class GA Groundwater are from 6 NYCRR Part 703.5

<sup>2</sup> Monitors the construction and demolition debris landfill (CDDL)

N/A - Not available

**TABLE E - 5 (continued)**

**1990 Dissolved Metals for the High-level Waste Storage and Processing Area(mg/L)**

Location Code	Hydraulic Position	Sample Date	Arsenic	Barium	Cadmium	Chromium	Iron	Lead	Manganese	Mercury	Selenium	Silver	Sodium
<b>**Quality Standards<sup>1</sup>***</b>			.025	1.0	.01	.05	.30	.025	.30	.002	.01	.05	< 20
WNW86-08	DOWN	02/12/90	.042	.090	<.005	<.010	1.000	<.005	8.200	<.0004	<.005	<.005	15.0
WNW86-08	DOWN	04/12/90	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WNW86-08	DOWN	05/24/90	<.005	<.060	<.005	.014	.510	<.005	5.800	<.0004	<.005	<.010	8.9
WNW86-08	DOWN	06/15/90	<.005	.060	<.005	<.010	.300	<.005	7.000	<.0004	<.005	<.010	9.4
WNW86-08	DOWN	07/30/90	<.005	.110	<.005	<.010	.810	<.005	7.900	<.0004	<.005	<.010	11.8
WNW86-08	DOWN	09/24/90	<.005	.094	<.005	<.010	.400	<.003	7.000	<.0004	<.005	<.005	13.5
WNW86-08	DOWN	10/24/90	<.005	.100	<.005	<.010	.500	<.003	9.000	.0009	<.005	<.005	9.3
WNW86-08	DOWN	11/07/90	<.005	.090	<.005	<.010	.160	<.003	5.300	<.0004	<.005	<.005	10.9
WNW86-09	DOWN	02/12/90	<.005	.095	<.005	<.010	.050	<.005	.010	<.0004	<.005	<.005	9.0
WNW86-09	DOWN	04/12/90	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WNW86-09	DOWN	05/24/90	<.005	.170	<.005	.015	.050	<.005	.011	<.0004	<.005	<.010	7.4
WNW86-09	DOWN	06/15/90	<.005	.160	<.005	<.010	.050	<.005	.005	<.0004	<.005	<.010	8.9
WNW86-09	DOWN	07/26/90	<.005	.160	<.010	<.010	.050	<.005	.019	<.0004	<.005	<.007	9.9
WNW86-09	DOWN	09/27/90	<.005	.200	<.005	<.010	.020	<.003	.012	<.0004	<.005	<.005	9.3
WNW86-09	DOWN	10/24/90	<.005	.210	<.005	<.010	.050	<.003	.013	<.0004	<.005	<.005	7.6
WNW86-09	DOWN	11/07/90	<.005	.210	<.005	<.010	.020	<.003	.008	<.0004	<.005	<.005	10.0
WNW86-12	DOWN	03/08/90	<.005	.350	<.005	<.010	.290	<.005	.091	<.0004	<.005	<.005	11.0
WNW86-12	DOWN	04/26/90	<.005	.380	<.005	<.010	.360	<.005	.088	<.0004	<.005	<.005	15.0
WNW86-12	DOWN	05/31/90	<.005	.330	<.005	<.010	.330	<.005	.077	<.0004	<.005	<.010	11.0
WNW86-12	DOWN	06/15/90	<.005	.320	<.005	<.010	.390	<.005	.094	<.0004	<.005	<.010	11.8
WNW86-12	DOWN	09/10/90	<.005	.450	<.005	<.010	.430	<.003	.093	<.0004	<.005	<.005	12.0
WNW86-12	DOWN	09/27/90	<.005	.410	<.005	<.010	.450	<.003	.100	<.0004	<.005	<.005	12.0
WNW86-12	DOWN	10/25/90	<.005	.320	<.005	<.010	.390	<.003	.099	<.0004	<.005	<.006	12.9
WNW86-12	DOWN	11/08/90	<.005	.310	<.005	<.010	.320	<.003	.079	<.0004	<.005	<.005	11.7

<sup>1</sup> Quality standards for Class GA Groundwater are from 6 NYCRR Part 703.5

<sup>2</sup> Monitors the construction and demolition debris landfill (CDDL)

N/A - Not available

TABLE E - 6

1990 Radioactivity Concentrations for the High-level Waste Storage and Processing Area ( $\mu\text{Ci/mL}$ )

Location Code	Hydraulic Position	Sample Date	Gross Alpha	Gross Beta	Tritium	Cs-137	Co-60
*****Department of Energy DCGs*****			3.0E-08	1.0E-06	2.0E-03	3.0E-06	5.0E-06
*****Quality Standards <sup>1</sup> *****			1.5E-08	1.0E-06	2.0E-05	N/A	N/A
WNW80-02	UP	02/05/90	< 8.32E-10	< 1.70E-09	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW80-02	UP	04/12/90	< 1.98E-09	< 1.10E-09	< 1.09E-07	< 3.7E-08	< 3.8E-08
WNW80-02	UP	06/05/90	< 4.06E-09	< 1.67E-09	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW80-02	UP	06/14/90	< 3.31E-09	< 1.66E-09	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW80-02	UP	09/10/90	< 1.72E-09	< 1.55E-09	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW80-02	UP	09/26/90	< 1.23E-09	< 1.08E-09	2.99±1.14E-07	< 3.7E-08	< 3.8E-08
WNW80-02	UP	10/24/90	< 1.36E-09	2.48±1.72E-09	2.13±1.13E-07	< 3.7E-08	< 3.8E-08
WNW80-02	UP	11/07/90	< 1.30E-09	< 1.37E-09	< 9.84E-08	< 3.7E-08	< 3.8E-08
WNDMPNE <sup>2</sup>	DOWN	02/06/90	< 1.25E-09	8.01±.57E-08	4.54±1.21E-07	< 3.7E-08	< 3.8E-08
WNDMPNE	DOWN	04/12/90	< 9.88E-10	3.71±.37E-08	2.69±1.16E-07	< 3.7E-08	< 3.8E-08
WNDMPNE	DOWN	05/31/90	< 4.94E-09	1.35±.07E-07	7.47±1.30E-07	< 3.7E-08	< 3.8E-08
WNDMPNE	DOWN	06/15/90	8.31±7.28E-09	1.48±.08E-07	1.13±.14E-06	< 3.7E-08	< 3.8E-08
WNDMPNE	DOWN	09/12/90	< 3.81E-09	1.33±.07E-07	8.23±1.29E-07	< 3.7E-08	< 3.8E-08
WNDMPNE	DOWN	09/27/90	< 3.49E-09	1.64±.08E-07	5.90±1.22E-07	< 3.7E-08	< 3.8E-08
WNDMPNE	DOWN	10/25/90	< 3.56E-09	1.54±.30E-08	6.04±1.25E-07	< 3.7E-08	< 3.8E-08
WNDMPNE	DOWN	11/12/90	< 4.22E-09	5.93±.51E-08	5.32±1.21E-07	< 3.7E-08	< 3.8E-08
WNW86-07	DOWN	02/12/90	< 1.56E-09	3.62±2.18E-09	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW86-07	DOWN	04/09/90	< 2.37E-09	4.33±1.72E-09	< 1.13E-07	< 3.7E-08	< 3.8E-08
WNW86-07	DOWN	05/24/90	< 2.82E-09	4.96±2.00E-09	< 1.17E-07	< 3.7E-08	< 3.8E-08
WNW86-07	DOWN	06/15/90	< 3.70E-09	4.41±2.14E-09	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW86-07	DOWN	07/30/90	< 5.53E-09	4.46±2.10E-09	2.65±1.13E-07	< 3.7E-08	< 3.8E-08
WNW86-07	DOWN	09/24/90	< 2.65E-09	2.74±.35E-08	1.24±1.11E-07	< 3.7E-08	< 3.8E-08
WNW86-07	DOWN	10/24/90	< 2.24E-09	6.96±.52E-08	1.60±1.12E-07	< 3.7E-08	< 3.8E-08
WNW86-07	DOWN	11/07/90	< 1.38E-09	1.15±.25E-08	< 1.00E-07	< 3.7E-08	< 3.8E-08

<sup>1</sup> Quality standards for Class GA Groundwater are from 6 NYCRR Part 703.5

<sup>2</sup> Monitors construction and demolition debris landfill (CDDL)

N/A - Not available

Note: Gross alpha DCG as Am-241; gross beta DCG as Sr-90

**TABLE E - 6 (continued)**

**1990 Radioactivity Concentrations in the High-level Waste Storage and Processing Area ( $\mu\text{Ci/mL}$ )**

Location Code	Hydraulic Position	Sample Date	Gross Alpha	Gross Beta	Tritium	Cs-137	Co-60
*****Department of Energy DCGs *****			3.0E-08	1.0E-06	2.0E-03	3.0E-06	5.0E-06
*****Quality Standards <sup>1</sup> *****			1.5E-08	1.0E-06	2.0E-05	N/A	N/A
WNW86-08	DOWN	02/12/90	< 3.70E-09	8.07±2.57E-09	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW86-08	DOWN	04/12/90	< 1.15E-09	7.13±1.92E-09	1.74±1.20E-07	< 3.7E-08	< 3.8E-08
WNW86-08	DOWN	05/24/90	< 1.39E-09	9.02±2.18E-09	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW86-08	DOWN	06/15/90	< 1.32E-09	8.79±2.34E-09	6.46±1.26E-07	< 3.7E-08	< 3.8E-08
WNW86-08	DOWN	07/30/90	< 4.41E-09	1.44±.29E-08	5.23±1.24E-07	< 3.7E-08	< 3.8E-08
WNW86-08	DOWN	09/24/90	< 3.51E-09	1.39±.28E-08	2.95±1.47E-07	< 3.7E-08	< 3.8E-08
WNW86-08	DOWN	10/24/90	< 1.77E-09	8.91±2.35E-09	< 1.00E-07	< 3.7E-08	< 3.8E-08
WNW86-08	DOWN	11/07/90	2.99±2.76E-09	8.58±2.27E-09	2.72±1.38E-07	< 3.7E-08	< 3.8E-08
WNW86-09	DOWN	02/12/90	< 6.44E-09	2.08±.09E-07	1.94±.16E-06	< 3.7E-08	< 3.8E-08
WNW86-09	DOWN	04/12/90	< 3.87E-09	2.04±.09E-07	1.65±.15E-06	< 3.7E-08	< 3.8E-08
WNW86-09	DOWN	05/24/90	< 5.36E-09	1.70±.12E-07	2.04±.16E-06	< 3.7E-08	< 3.8E-08
WNW86-09	DOWN	06/15/90	5.48±5.37E-09	2.45±.10E-07	1.92±.16E-06	< 3.7E-08	< 3.8E-08
WNW86-09	DOWN	07/26/90	< 5.85E-09	2.71±.11E-07	2.15±.16E-06	< 3.7E-08	< 3.8E-08
WNW86-09	DOWN	09/27/90	< 2.73E-09	2.51±.07E-07	2.05±.16E-06	< 3.7E-08	< 3.8E-08
WNW86-09	DOWN	10/24/90	< 2.75E-09	2.31±.10E-07	2.01±.15E-06	< 3.7E-08	< 3.8E-08
WNW86-09	DOWN	11/07/90	< 7.87E-09	3.00±.11E-07	1.50±.14E-06	< 3.7E-08	< 3.8E-08
WNW86-12	DOWN	03/08/90	< 5.00E-09	1.68±1.45E-09	2.46±.17E-06	< 3.7E-08	< 3.8E-08
WNW86-12	DOWN	04/26/90	< 7.18E-09	< 1.91E-09	3.09±.19E-06	< 3.7E-08	< 3.8E-08
WNW86-12	DOWN	05/31/90	< 5.45E-09	< 1.87E-09	3.02±.19E-06	< 3.7E-08	< 3.8E-08
WNW86-12	DOWN	06/15/90	< 3.60E-09	< 1.84E-09	3.18±1.20E-06	< 3.7E-08	< 3.8E-08
WNW86-12	DOWN	09/10/90	9.28±6.43E-09	< 1.96E-09	2.62±.17E-06	< 3.7E-08	< 3.8E-08
WNW86-12	DOWN	09/27/90	< 5.80E-09	2.10±2.01E-09	2.93±.18E-06	< 3.7E-08	< 3.8E-08
WNW86-12	DOWN	10/25/90	< 2.77E-09	< 1.80E-09	2.81±.18E-06	< 3.7E-08	< 3.8E-08
WNW86-12	DOWN	11/08/90	< 6.90E-09	< 1.70E-09	2.80±.18E-06	< 3.7E-08	< 3.8E-08

<sup>1</sup> Quality standards for Class GA Groundwater are from 6 NYCRR Part 703.5

<sup>2</sup> Monitors construction and demolition debris landfill (CDDL)

N/A - Not available

Note: Gross alpha DCG as Am-241; gross beta DCG as Sr-90

TABLE E - 7

## 1990 Water Quality Parameters for the Low-level Liquid Waste Treatment Facility (mg/L)

Location Code	Hydraulic Position	Sample Date	pH	Conductivity <sup>2</sup>	TOC	Phenols	TOH	Chloride	Nitrate-N	Sulfate	Fluoride
*** Quality Standards <sup>1</sup> ***			6.5-8.5	N/A	N/A	.001	N/A	250	10	250	1.5
WNW86-06	UP	03/08/90	6.88	1519	1.2	< .008	.020	320	.33	46.0	.11
WNW86-06	UP	04/26/90	6.93	1950	2.5	.010	< .010	440	.26	86.0	< .10
WNW86-06	UP	05/23/90	6.62	2070	2.3	< .006	< .005	478	.057	83.2	< .10
WNW86-06	UP	06/15/90	6.71	1872	2.2	< .007	.017	452	.18	65.8	< .10
WNW86-06	UP	08/15/90	6.33	1853	3.4	.120	.079	375	1.4	52.2	< .10
WNW86-06	UP	09/24/90	6.32	1725	4.6	.015	.030	357	.23	78.0	< .10
WNW86-06	UP	10/25/90	6.67	1406	2.5	< .010	.023	291	4.0	82.4	< .10
WNW86-06	UP	11/08/90	6.56	1307	2.4	< .008	.028	227	2.0	69.6	< .10
WNGSEEP	DOWN	02/21/90	6.49	490	8.5	< .008	< .010	43.0	.80	35.0	< .10
WNGSEEP	DOWN	04/24/90	6.58	549	< 1.0	< .007	.010	57.0	.59	68.0	< .10
WNGSEEP	DOWN	06/06/90	6.18	601	< 1.0	< .006	.057	71.0	.44	53.0	< .10
WNGSEEP	DOWN	06/14/90	6.42	625	< 1.0	< .008	.026	76.4	.87	49.6	< .10
WNGSEEP	DOWN	07/09/90	6.30	706	< 1.0	< .008	.029	95.6	.40	63.2	< .10
WNGSEEP	DOWN	09/24/90	6.35	707	< 1.0	.007	.011	92.1	.74	64.3	< .10
WNGSEEP	DOWN	10/24/90	6.31	659	1.0	< .008	.026	54.0	.80	86.0	< 1.00
WNGSEEP	DOWN	11/08/90	6.22	559	< 1.0	< .008	.022	59.1	.63	40.0	< .10
WNSP008	DOWN	02/21/90	6.90	956	26	< .008	.020	80.0	.59	84.0	< .10
WNSP008	DOWN	04/24/90	7.07	1003	1.8	< .007	.040	96.0	.69	110	< .10
WNSP008	DOWN	06/06/90	6.77	1004	2.2	< .006	.017	107	.51	73.0	.11
WNSP008	DOWN	06/14/90	6.98	1001	2.2	< .008	.014	112	.78	54.8	< .10
WNSP008	DOWN	09/10/90	6.89	N/A	N/A	.010	.016	91.8	.38	45.0	.12
WNSP008	DOWN	09/24/90	6.80	900	2.9	< .008	< .005	82.8	.71	61.1	< .10
WNSP008	DOWN	10/24/90	6.82	875	2.2	< .008	.013	74.0	.38	32.4	< .10
WNSP008	DOWN	11/08/90	6.72	858	1.8	< .008	.011	76.7	.25	55.7	< .10
WNW80-05	DOWN	02/21/90	6.77	851	3.0	< .008	< .010	110	.57	57.0	< .10
WNW80-05	DOWN	04/24/90	7.38	720	2.1	< .008	.010	92.0	.68	86.0	< .10
WNW80-05	DOWN	06/05/90	6.91	771	< 1.0	< .008	.0094	94.8	.29	42.4	.19
WNW80-05	DOWN	06/15/90	6.95	785	4.3	< .007	< .005	96.3	.089	50.0	.12
WNW80-05	DOWN	09/10/90	6.94	895	N/A	.006	.006	148	.15	63.2	.12
WNW80-05	DOWN	09/26/90	6.89	760	1.9	< .008	< .005	72.5	.44	31.2	.15
WNW80-05	DOWN	10/24/90	6.98	710	1.4	< .008	.100	91.5	.41	48.2	.15
WNW80-05	DOWN	11/12/90	6.88	744	< 1.0	< .007	.011	102	.37	56.3	.10

<sup>1</sup> Quality standards for Class GA Groundwater are from 6 NYCRR Part 703.5

<sup>2</sup> Measured in  $\mu\text{mhos/cm}$  at 25°C

N/A - Not available

**TABLE E - 7 (continued)**

**1990 Water Quality Parameters for the Low-level Liquid Waste Treatment Facility (mg/L)**

Location Code	Hydraulic Position	Sample Date	pH	Conductivity <sup>2</sup>	TOC	Phenols	TOH	Chloride	Nitrate-N	Sulfate	Fluoride
*** Quality Standards <sup>1</sup> ***			6.5-8.5	N/A	N/A	.001	N/A	250	10	250	1.5
WNW80-06	DOWN	02/20/90	6.69	747	4.3	< .008	< .010	36.0	.23	140.0	.13
WNW80-06	DOWN	04/23/90	6.60	405	3.5	< .008	< .010	66.0	.26	130.0	< .10
WNW80-06	DOWN	06/05/90	6.14	734	1.2	< .008	.030	68.5	< .05	77.4	.10
WNW80-06	DOWN	06/14/90	6.96	706	1.7	< .007	.005	86.4	.18	74.8	< .10
WNW80-06	DOWN	09/10/90	6.40	994	N/A	.020	.025	3.5	2.4	149.0	.12
WNW80-06	DOWN	09/27/90	6.33	936	4.2	< .008	.017	43.2	.57	180.0	.10
WNW80-06	DOWN	10/24/90	6.58	883	< 3.1	< .009	.009	56.0	.81	138.0	.11
WNW80-06	DOWN	11/07/90	6.20	789	1.0	.012	.006	77.0	.078	112.0	< .10
WNW86-03	DOWN	02/21/90	7.49	933	3.0	< .008	< .010	140	1.1	27.0	< .10
WNW86-03	DOWN	04/23/90	7.52	912	2.3	< .008	.030	160	.095	39.0	< .10
WNW86-03	DOWN	05/24/90	7.24	910	2.5	< .007	< .005	131	< .050	40.8	< .10
WNW86-03	DOWN	06/15/90	7.22	915	2.7	< .007	.007	121	.91	42.8	< .10
WNW86-03	DOWN	07/09/90	7.23	935	< 1.0	< .008	.012	154	1.3	37.8	< .10
WNW86-03	DOWN	09/24/90	7.13	959	2.4	< .008	.006	166	.40	46.7	< .10
WNW86-03	DOWN	10/24/90	7.32	978	< 1.0	< .008	.010	154	1.8	27.4	< .10
WNW86-03	DOWN	11/08/90	7.31	973	< 1.0	< .008	< .005	156	3.3	33.6	< .10
WNW86-04	DOWN	03/01/90	7.16	922	5.2	< .008	< .010	140	1.7	30.0	< .10
WNW86-04	DOWN	04/26/90	7.44	926	< 1.0	< .008	< .010	130	1.40	49.0	< .10
WNW86-04	DOWN	05/23/90	7.14	928	< 1.0	< .006	< .005	120	.11	48.0	< .10
WNW86-04	DOWN	06/15/90	7.18	912	< 1.0	< .008	.006	128	1.1	40.4	< .10
WNW86-04	DOWN	09/12/90	7.22	932	< 1.0	.044	.005	155	.92	87.0	< .10
WNW86-04	DOWN	09/24/90	7.13	931	< 1.0	< .009	< .005	143	.29	N/A	N/A
WNW86-04	DOWN	10/24/90	7.34	951	< 1.0	< .008	.008	154	.88	38.4	< .10
WNW86-04	DOWN	11/08/90	7.39	948	< 1.0	< .008	< .005	142	.97	57.8	< .10
WNW86-05	DOWN	03/01/90	6.84	814	7.81	.027	.027	21.8	< .10	62.1	.10
WNW86-05	DOWN	04/26/90	7.08	600	11.0	< .010	N/A	6.8	< .10	46.7	.11
WNW86-05	DOWN	06/08/90	6.77	848	12.3	< .010	N/A	19.5	< .10	70.8	.11
WNW86-05	DOWN	06/21/90	6.57	911	13.9	< .010	< .010	17.2	< .10	63.4	.12
WNW86-05	DOWN	09/12/90	6.59	832	15.9	< .010	< .010	15.63	< .10	48.0	.12
WNW86-05	DOWN	09/27/90	6.51	916	11.96	.039	.071	32.5	< .10	73.2	.14
WNW86-05	DOWN	10/24/90	6.65	727	11.9	.012	.012	16.0	< .10	51.6	.12
WNW86-05	DOWN	11/12/90	6.55	738	13.3	< .010	.011	14.7	< .10	50.7	.16

<sup>1</sup> Quality standards for Class GA Groundwater are from 6 NYCRR Part 703.5

<sup>2</sup> Measured in  $\mu$ mhos/cm at 25°C

N/A - Not available

TABLE E - 8

1990 Total Metals for the Low-level Liquid Waste Treatment Facility (mg/L)

Location Code	Hydraulic Position	Sample Date	Arsenic	Barium	Cadmium	Chromium	Iron	Lead	Manganese	Mercury	Selenium	Silver	Sodium
<b>**Quality Standards<sup>1</sup>**</b>			.025	1.0	.01	.05	.30	.025	.30	.002	.01	.05	< 20
WNW86-06	UP	03/08/90	< .005	.06	< .005	< .010	2.3	< .005	4.3	< .0004	< .005	< .005	240
WNW86-06	UP	04/26/90	.040	.09	.005	< .010	5.8	.009	2.8	< .0004	< .005	< .005	330
WNW86-06	UP	05/23/90	< .005	.13	< .005	< .010	1.6	< .005	2.6	N/A	< .005	.010	245
WNW86-06	UP	06/15/90	< .005	.09	.007	< .010	1.4	< .005	2.0	.0005	< .005	.011	230
WNW86-06	UP	08/15/90	< .005	.081	< .005	< .010	.15	< .005	2.2	.0070	< .005	< .010	295
WNW86-06	UP	09/24/90	< .005	.089	< .005	< .010	.19	< .003	1.8	.0005	< .005	< .005	248
WNW86-06	UP	10/25/90	< .005	.16	.009	< .010	1.2	< .003	.97	< .0004	< .005	< .006	190
WNW86-06	UP	11/08/90	< .005	< .15	.010	< .010	.62	< .003	3.1	< .0004	< .005	< .005	180
WNGSEEP	DOWN	02/21/90	< .005	.07	< .005	< .010	< .05	< .005	< .010	< .0004	< .005	< .005	9.4
WNGSEEP	DOWN	04/24/90	< .005	.12	.006	< .010	< .05	< .005	.010	< .0004	< .005	< .010	9.9
WNGSEEP	DOWN	06/06/90	< .005	.12	.005	< .010	< .05	< .005	< .005	< .0004	< .005	< .010	11.7
WNGSEEP	DOWN	06/14/90	< .005	.13	.008	< .010	< .05	< .005	< .005	< .0004	< .005	< .010	12.9
WNGSEEP	DOWN	07/09/90	< .005	.13	< .005	< .010	< .05	< .005	< .005	< .0004	< .005	< .007	16.7
WNGSEEP	DOWN	09/24/90	< .005	.14	< .005	< .010	.036	< .003	.005	< .0004	< .005	< .005	19.5
WNGSEEP	DOWN	10/24/90	< .005	.12	< .005	< .010	< .05	< .003	< .007	< .0004	< .005	< .006	31.0
WNGSEEP	DOWN	11/08/90	< .005	< .15	.005	< .010	.48	.013	< .007	< .0004	< .005	< .005	14.1
WNSP008	DOWN	02/21/90	< .005	.09	< .005	< .010	< .05	< .005	1.6	< .0004	.006	.012	44.0
WNSP008	DOWN	04/24/90	< .005	.09	.011	< .010	.05	< .005	1.7	< .0004	< .005	< .010	41.0
WNSP008	DOWN	06/06/90	.005	.09	.007	< .010	.07	< .005	1.7	< .0004	< .005	< .010	53.4
WNSP008	DOWN	06/14/90	< .005	.08	.005	< .010	69.0	< .005	2.6	.0007	< .005	< .010	51.7
WNSP008	DOWN	09/10/90	< .005	.11	< .005	< .010	< .05	< .003	1.5	< .0004	< .005	< .005	60.0
WNSP008	DOWN	09/24/90	< .005	.076	< .005	< .010	.077	< .003	1.4	< .0004	< .005	< .005	58.2
WNSP008	DOWN	10/24/90	< .005	.10	.007	< .010	.06	< .003	2.0	.0039	< .005	.053	51.0
WNSP008	DOWN	11/08/90	< .005	< .15	.008	< .010	.06	< .003	2.5	< .0004	< .005	< .005	50.6
WNW80-05	DOWN	02/21/90	< .005	.13	< .005	< .010	3.1	< .005	.049	< .0004	< .005	< .005	21.0
WNW80-05	DOWN	04/24/90	< .005	.11	.010	< .010	14.0	.011	.068	< .0004	< .005	< .010	22.0
WNW80-05	DOWN	06/05/90	< .005	.12	< .005	.026	26.3	.009	.087	< .0004	< .005	< .010	26.5
WNW80-05	DOWN	06/15/90	< .005	.09	.006	< .010	14.8	< .005	.10	< .0004	< .005	< .010	22.4
WNW80-05	DOWN	09/10/90	< .005	.22	< .005	< .010	7.4	.003	.09	< .0004	< .005	< .005	38.0
WNW80-05	DOWN	09/26/90	< .005	.10	.013	< .010	33.4	.019	.074	< .0004	< .005	< .005	26.9
WNW80-05	DOWN	10/24/90	< .005	.10	.008	< .010	17.3	.005	.045	.0012	< .005	< .006	57.6
WNW80-05	DOWN	11/12/90	< .005	.18	.009	.012	64.0	.016	.12	< .0004	< .005	< .006	28.7

<sup>1</sup> Quality standards for Class GA Groundwater are from 6 NYCRR Part 703.5

TABLE E - 8 (continued)

1990 Total Metals for the Low-level Liquid Waste Treatment Facility (mg/L)

Location Code	Hydraulic Position	Sample Date	Arsenic	Barium	Cadmium	Chromium	Iron	Lead	Manganese	Mercury	Selenium	Silver	Sodium
<b>**Quality Standards<sup>1</sup>**</b>			.025	1.0	.01	.05	.30	.025	.30	.002	.01	.05	<20
WNW80-06	DOWN	02/20/90	< .005	< .06	< .005	< .010	.44	.006	1.6	< .0004	< .005	.016	7.9
WNW80-06	DOWN	04/23/90	< .005	.08	.007	< .010	.30	< .005	3.1	< .0004	< .005	.005	10.0
WNW80-06	DOWN	06/05/90	< .005	.05	< .005	< .010	1.3	.027	5.2	< .0004	< .005	< .010	11.2
WNW80-06	DOWN	06/14/90	< .005	.07	.007	< .010	.26	< .005	7.8	< .0004	< .005	< .010	9.4
WNW80-06	DOWN	09/10/90	< .005	.21	< .005	< .010	< .05	.003	3.2	< .0004	< .005	< .005	12.0
WNW80-06	DOWN	09/27/90	< .005	.01	< .005	< .010	.61	.013	1.9	< .0004	< .005	< .005	12.6
WNW80-06	DOWN	10/24/90	< .005	.09	.011	< .010	1.4	.009	4.2	.0014	< .005	< .006	27.7
WNW80-06	DOWN	11/07/90	< .005	.12	< .005	< .010	3.9	.017	7.9	< .0004	< .005	< .005	16.2
WNW86-03	DOWN	02/21/90	< .005	.19	< .005	< .010	1.2	< .005	.035	< .0004	< .005	.006	23.0
WNW86-03	DOWN	04/23/90	< .005	.22	.006	< .010	.83	< .005	.053	< .0004	< .005	.007	26.0
WNW86-03	DOWN	05/24/90	< .005	.25	< .005	< .010	.95	< .005	.030	< .0004	< .005	< .010	22.6
WNW86-03	DOWN	06/15/90	.007	.29	.011	.013	19.8	.014	< .005	< .0004	.014	< .010	22.6
WNW86-03	DOWN	07/09/90	< .005	.22	.010	.013	4.2	< .005	.14	< .0004	< .005	< .007	26.8
WNW86-03	DOWN	09/24/90	< .005	.26	.006	.013	3.0	.004	.13	< .0004	< .005	< .005	31.4
WNW86-03	DOWN	10/24/90	< .005	.26	.007	< .010	1.8	.003	.05	.0034	< .005	< .006	65.2
WNW86-03	DOWN	11/08/90	< .005	.27	.008	< .010	1.5	.004	.051	< .0004	< .005	< .005	29.9
WNW86-04	DOWN	03/01/90	< .005	.30	< .005	< .010	5.0	.005	.36	< .0004	< .005	.008	33.0
WNW86-04	DOWN	04/26/90	.007	.26	.011	< .010	17.0	.010	.25	< .0004	< .005	.007	28.0
WNW86-04	DOWN	05/23/90	< .005	.25	.010	< .010	6.8	< .005	.13	< .0004	< .005	< .005	25.1
WNW86-04	DOWN	06/15/90	.006	.31	.008	< .010	10.1	.008	.20	< .0004	< .005	.011	21.6
WNW86-04	DOWN	09/12/90	.010	.41	.018	.027	24.4	.028	.41	< .0004	< .005	< .005	29.2
WNW86-04	DOWN	09/24/90	< .005	.60	.008	.014	6.9	.005	.16	< .0004	< .005	< .005	26.7
WNW86-04	DOWN	10/24/90	< .005	.34	< .005	< .010	12.1	.008	.18	< .0008	< .005	< .006	63.2
WNW86-04	DOWN	11/08/90	.006	.41	.010	< .010	17.3	< .010	.28	< .0004	< .005	< .005	27.6
WNW86-05	DOWN	03/01/90	.006	.084	< .002	.018	2.82	.009	5.650	< .0002	< .002	< .010	27.8
WNW86-05	DOWN	04/26/90	.005	.088	.003	.031	3.77	< .002	10.80	< .0002	< .002	.013	34.1
WNW86-05	DOWN	06/08/90	< .050	.114	.003	.021	5.25	.002	10.90	.0002	.002	.014	63.4
WNW86-05	DOWN	06/21/90	.007	.106	.003	.022	3.92	< .002	9.870	N/A	< .002	.013	70.6
WNW86-05	DOWN	09/12/90	.008	.10	.003	.014	2.65	< .002	9.189	< .0002	< .004	.010	64.8
WNW86-05	DOWN	09/27/90	.009	.119	.003	< .020	5.08	< .002	10.60	< .0002	< .002	< .010	67.2
WNW86-05	DOWN	10/24/90	.008	.103	.003	.013	4.56	< .002	9.290	< .0002	< .002	.015	46.0
WNW86-05	DOWN	11/12/90	.009	.101	.004	.013	4.508	< .002	9.489	< .0002	< .002	.015	46.71

<sup>1</sup> Quality standards for Class GA Groundwater are from 6 NYCRR Part 703.5



TABLE E - 9

1990 Dissolved Metals for the Low-level Liquid Waste Treatment Facility (mg/L)

Location Code	Hydraulic Position	Sample Date	Arsenic	Barium	Cadmium	Chromium	Iron	Lead	Manganese	Mercury	Selenium	Silver	Sodium
<b>** Quality Standards<sup>1</sup>**</b>			.025	1.0	.01	.05	.30	.025	.30	.002	.01	.05	<20
WNW86-06	UP	03/08/90	<.005	<.05	<.005	<.010	<.05	<.005	.61	<.0004	<.005	<.005	230
WNW86-06	UP	04/26/90	<.005	<.06	<.005	<.010	<.05	<.005	.67	<.0004	<.005	<.005	250
WNW86-06	UP	05/23/90	<.005	.06	<.005	<.010	<.05	<.005	.86	<.0004	<.005	<.005	275
WNW86-06	UP	06/15/90	<.005	.07	<.005	<.010	<.05	<.005	1.0	<.0004	<.005	<.010	301
WNW86-06	UP	08/15/90	<.005	.068	<.005	<.010	<.04	.005	.91	<.0004	<.005	<.010	294
WNW86-06	UP	09/24/90	<.005	.081	<.005	<.010	.049	<.003	1.2	<.0004	<.005	<.005	250
WNW86-06	UP	10/25/90	<.005	<.15	<.005	<.010	.06	<.003	.95	<.0004	<.005	<.006	224
WNW86-06	UP	11/08/90	<.005	<.15	<.005	<.010	.08	<.003	.62	<.0004	<.005	<.005	205
WNGSEEP	DOWN	02/21/90	<.005	<.06	<.005	<.010	<.05	<.005	<.01	<.0004	<.005	<.005	11.0
WNGSEEP	DOWN	04/24/90	<.005	.12	<.005	<.010	<.05	<.005	<.01	<.0004	<.005	<.010	11.0
WNGSEEP	DOWN	06/06/90	<.005	.12	.007	<.010	<.05	<.005	<.005	<.0004	<.005	<.010	14.4
WNGSEEP	DOWN	06/14/90	<.005	.12	<.005	<.010	<.05	<.005	<.005	<.0004	<.005	<.010	12.4
WNGSEEP	DOWN	07/09/90	<.005	.11	<.005	<.010	<.05	<.005	<.005	<.0004	<.005	<.007	15.5
WNGSEEP	DOWN	09/24/90	<.005	.15	<.005	<.010	<.02	<.003	<.005	<.0004	<.005	<.005	19.0
WNGSEEP	DOWN	10/24/90	<.005	.14	<.005	<.010	<.05	<.003	<.007	<.0004	<.005	<.005	15.2
WNGSEEP	DOWN	11/08/90	<.005	<.15	<.005	<.010	<.05	<.003	<.007	<.0004	<.005	<.005	15.1
WNSP008	DOWN	02/21/90	<.005	.09	<.005	<.010	<.05	<.005	1.7	<.0004	<.005	.008	48.0
WNSP008	DOWN	04/24/90	<.005	.09	.006	<.010	<.05	<.005	1.7	<.0004	<.005	<.010	47.0
WNSP008	DOWN	06/06/90	<.005	.08	.005	<.010	<.05	<.005	1.8	<.0004	<.005	<.010	61.8
WNSP008	DOWN	06/14/90	<.005	.08	<.005	<.010	.15	<.005	1.7	<.0004	<.005	<.010	61.8
WNSP008	DOWN	09/10/90	<.005	<.07	<.005	<.010	<.05	<.003	1.4	<.0004	<.005	<.005	56.0
WNSP008	DOWN	09/24/90	<.005	.076	<.005	<.010	<.02	<.003	1.4	<.0004	<.005	<.005	56.9
WNSP008	DOWN	10/24/90	<.005	.08	<.005	<.010	<.05	<.003	<.007	.0021	<.005	<.005	51.7
WNSP008	DOWN	11/08/90	<.005	<.15	<.005	<.010	<.05	<.003	1.5	<.0004	<.005	<.005	54.3
WNW80-05	DOWN	02/21/90	<.005	.13	<.005	<.010	.12	<.005	.025	<.0004	<.005	<.005	24.0
WNW80-05	DOWN	04/24/90	<.005	.11	<.005	<.010	.29	<.005	.013	<.0004	<.005	<.010	26.0
WNW80-05	DOWN	06/05/90	<.005	.10	<.005	.013	1.6	<.005	.068	<.0004	<.005	<.010	31.3
WNW80-05	DOWN	06/15/90	<.005	.12	<.005	<.010	.73	<.005	.095	<.0004	<.005	<.010	32.1
WNW80-05	DOWN	09/10/90	<.005	.08	<.005	<.010	5.4	<.003	.008	<.0004	<.005	<.005	36.0
WNW80-05	DOWN	09/26/90	<.005	.16	<.005	<.010	5.3	<.003	.076	<.0004	<.005	<.005	16.1
WNW80-05	DOWN	10/24/90	<.005	.12	<.005	<.010	.48	<.003	.019	<.0004	<.005	<.005	28.0
WNW80-05	DOWN	11/12/90	<.005	<.15	<.005	<.010	.46	<.003	<.007	<.0004	<.005	<.006	28.0

<sup>1</sup> Quality standards for Class GA Groundwater are from 6 NYCRR Part 703.5

N/A - Not available