

***Appendix E***  
***Summary of Groundwater Monitoring Data***

*The tables on pages E-7 through E-19 contain a bolding convention devised to help the reader, when viewing the data, to quickly see the range of detectable measurements within a data series. A data series is a set of chemical or radionuclide measurements (e.g., gross alpha, gross beta, tritium) from a single location or from similar locations. Note that some tables contain data that should not be technically evaluated under this convention.*

**Key to bolding convention:**

*Results for each analyte constitute a single data series. If a radiological result is larger than the uncertainty term, the measurement is considered positive. Otherwise, a result is considered nondetectable. Chemical results preceded by “less than” (<) are considered nondetectable. The bolding convention is not applied to data series consisting of less than three values.*

If all results in a data series are positive, the lowest and highest values are bolded.

If a data series contains some positive results, the highest value is bolded.

If all values in a data series are nondetectable, no values are bolded.

**Table E-1**  
**Groundwater Monitoring Network: Super Solid Waste Management Units**

SSWMUS and Constituent SWMUs	Well ID Number <sup>1</sup>	Additional Analytes Measured in 2001 <sup>2</sup>	Well ID Number <sup>1</sup>	Additional Analytes Measured in 2001 <sup>2</sup>
SSWMU #1 - Low-Level Waste Treatment Facilities:				
• Former Lagoon 1	103*	(S:D) V	110*	(T:D) V
• LLWTF Lagoons	104	(S:C) SV, V	111*	(S:D) M33, S, SV, V
• LLWTF Building	105	(S:C) V	114	(T:D) p
• Interceptors	106	(S:D) V	115	(T:U) p
• Neutralization Pit	107	(T:D) V	116*	(S:U) S, V
	108	(T:D) V	8604	(S:C) V
	109	(T:D) p	8605*	(S:D) M33, S, SV, V
SSWMU #2 - Miscellaneous Small Units:				
• Sludge Ponds	201	(S:U) V	206	(TS:D)
• Solvent Dike	202	(TS:U) p	207	(S:D) p
• Equalization Mixing Basin	203	(S:D) p	208	(TS:D) V
• Paper Incinerator	204*	(TS:D)	8606	(S:D) p
	205	(S:D)		
SSWMU #3 - Liquid Waste Treatment System:				
• Liquid Waste Treatment System	301*	(S:B)	307	(S:D) p
• Cement Solidification System	302	(TS:U)		
• Main Process Building (specific areas)	305	(S:D) p		

<sup>1</sup> Hydrogeologic unit monitored and well position in SSWMU follow the well ID in parentheses. Hydrogeologic units monitored are: WT (weathered Lavery till); T (unweathered Lavery till); S (sand and gravel); K (Kent recessional sequence); TS (till-sand). Well position in SSWMU: U (upgradient); D (downgradient); B (background); C (crossgradient). Example: 401\* (S:B) monitors background conditions in the sand and gravel unit.

<sup>2</sup> See Table 3-1 (p. 3-6) for a description of codes and analytes. The parameters listed in this table, Table E-1, are in addition to the contamination indicator parameters (I) and radiological indicator parameters (RI) routinely scheduled at all monitoring locations for 2001. Wells measured for potentiometric (water-level) data only are designated by "p."

\* Monitoring for certain parameters is required by the RCRA §3008(h) Order on Consent. (See p. ECS-4.)

**Table E-1 (continued)**  
**Groundwater Monitoring Network: Super Solid Waste Management Units**

SSWMUS and Constituent SWMUs	Well ID Number <sup>1</sup>	Additional Analytes Measured in 2001 <sup>2</sup>	Well ID Number <sup>1</sup>	Additional Analytes Measured in 2001 <sup>2</sup>
SSWMU #4 - HLW Storage and Processing Area:				
• Vitrification Facility	401* (S:B)	R	407 (K:D)	<i>p</i>
• Vitrification Test Tanks	402 (TS:U)		408* (S:D)	R, V
• HLW Tanks	403 (S:U)	V	409 (T:D)	
• Supernatant Treatment System	404 (TS:U)	<i>p</i>	410 (K:U)	<i>p</i>
	405 (T:C)		411 (K:U)	<i>p</i>
	406* (S:D)	R, V		
SSWMU #5 - Maintenance Shop Leach Field:				
• Maintenance Shop Leach Field	501* (S:U)	S, V	502* (S:D)	S, SM, V
SSWMU #6 - Low-level Waste Storage Area:				
• Hardstands (old and new)	601 (S:D)	<i>p</i>	605 (S:D)	S
• Lag Storage	602A (S:D)	S	8607* (S:U)	V
• Lag Storage Additions (LSAs 1, 2, 3, 4)	603 (S:U)	<i>p</i>	8608 (S:U)	<i>p</i>
	604 (S:D)		8609* (S:U)	S, V
SSWMU #7 - Chemical Process Cell (CPC) Waste Storage Area:				
• CPC Waste Storage Area	701 (TS:U)	<i>p</i>	705 (T:C)	<i>p</i>
	702 (T:C)	<i>p</i>	706* (S:B)	
	703 (T:D)	<i>p</i>	707 (T:D)	
	704 (T:D)	V		

<sup>1</sup> Hydrogeologic unit monitored and well position in SSWMU follow the well ID in parentheses. Hydrogeologic units monitored are: WT (weathered Lavery till); T (unweathered Lavery till); S (sand and gravel); K (Kent recessional sequence); TS (till-sand). Well position in SSWMU: U (upgradient); D (downgradient); B (background); C (crossgradient). Example: 401\* (S:B) monitors background conditions in the sand and gravel unit.

<sup>2</sup> See Table 3-1 (p. 3-6) for a description of codes and analytes. The parameters listed in this table, Table E-1, are in addition to the contamination indicator parameters (I) and radiological indicator parameters (RI) routinely scheduled at all monitoring locations for 2001. Wells measured for potentiometric (water-level) data only are designated by “p.”

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**Table E-1 (continued)**  
**Groundwater Monitoring Network: Super Solid Waste Management Units**

SSWMUS and Constituent SWMUs	Well ID Number <sup>1</sup>	Additional Analytes Measured in 2001 <sup>2</sup>	Well ID Number <sup>1</sup>	Additional Analytes Measured in 2001 <sup>2</sup>
SSWMU #8 - Construction and Demolition Debris Landfill:				
• Former Construction and Demolition Debris Landfill	801*	(S:U)	S, V	804* (S:D) V
	802	(S:D)	V	8603 (S:U) S
	803	(S:D)	SV, V	8612* (S:D) SV, V
SSWMU #9 - NRC-licensed Disposal Area:				
• NRC-licensed Disposal Area • Container Storage Area • Trench Interceptor Project	901*	(K:U)		908* (WT:U)
	902*	(K:U)		909* (WT:D) M33, R, SV, V
	903*	(K:D)		910* (T:D)
	904	(T:D)	<i>p</i>	8610* (K:D)
	905	(S:D)	<i>p</i>	8611* (K:D)
	906	(WT:D)		NDATR (Inter- ceptor Trench Manhole Sump: D) M33, R, SV, V
	907	(WT:D)	<i>p</i>	
SSWMU #10 - IRTS Drum Cell:				
• IRTS Drum Cell • Background (south plateau)	1001	(K:U)	<i>p</i>	1006* (WT:D)
	1002	(K:D)	<i>p</i>	1007 (WT:D)
	1003	(K:D)	<i>p</i>	1008B (K:B)
	1004	(K:D)	<i>p</i>	1008C* (WT:B)
	1005*	(WT:U)		

<sup>1</sup> Hydrogeologic unit monitored and well position in SSWMU follow the well ID in parentheses. Hydrogeologic units monitored are: WT (weathered Lavery till); T (unweathered Lavery till); S (sand and gravel); K (Kent recessional sequence); TS (till-sand). Well position in SSWMU: U (upgradient); D (downgradient); B (background); C (crossgradient). Example: 401\* (S:B) monitors background conditions in the sand and gravel unit.

<sup>2</sup> See Table 3-1 (p. 3-6) for a description of codes and analytes. The parameters listed in this table, Table E-1, are in addition to the contamination indicator parameters (I) and radiological indicator parameters (RI) routinely scheduled at all monitoring locations for 2001. Wells measured for potentiometric (water-level) data only are designated by "p."

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**Table E-1 (concluded)**  
**Groundwater Monitoring Network: Super Solid Waste Management Units**

SSWMUS and Constituent SWMUs	Well ID Number <sup>1</sup>	Additional Analytes Measured in 2001 <sup>2</sup>	Well ID Number <sup>1</sup>	Additional Analytes Measured in 2001 <sup>2</sup>
Main Plant Area Well Points:				
<i>(Monitor groundwater at various locations north and east of the main plant. Not in a SSWMU.)</i>	WP-A	(S)		
	WP-C	(S)		
	WP-H	(S)		
Former Sand and Gravel Background:				
<i>(Well originally used for background; replaced by a combination of wells 301, 401, and 706. Not in a SSWMU.)</i>	NB1S	(S:B)		
North Plateau Groundwater Seeps:				
<i>(Monitor groundwater emanating from seeps along the north pleateau edge. Not in a SSWMU.)</i>	SP04	(S)	RI	SP12* I, RI, V
	SP06	(S)	RI	GSEEP* I, RI, V
	SP11	(S)	RI	

Note: The SDA is sampled by NYSERDA under an independent monitoring program.

SSWMU #11 -

State-licensed Disposal Area (SDA)

• State-licensed Disposal Area [NYSERDA]	1101A	(WT:U)		1105A	(WT:D)
	1101B	(T:U)		1105B	(T:D)
	1101C	(K:U)		1106A	(WT:U)
	1102A	(WT:D)		1106B	(T:U)
	1102B	(T:D)		1107A	(WT:D)
	1103A	(WT:D)		1108A	(WT:U)
	1103B	(T:D)		1109A	(WT:U)
	1103C	(K:D)		1109B	(T:U)
	1104A	(WT:D)		1110A	(WT:D)
	1104B	(T:D)		1111A	(WT:D)
	1104C	(K:D)			

<sup>1</sup> Hydrogeologic unit monitored and well position in SSWMU follow the well ID in parentheses. Hydrogeologic units monitored are: WT (weathered Lavery till); T (unweathered Lavery till); S (sand and gravel); K (Kent recessional sequence); TS (till-sand). Well position in SSWMU: U (upgradient); D (downgradient); B (background); C (crossgradient). Example: 401\* (S:B) monitors background conditions in the sand and gravel unit.

<sup>2</sup> See Table 3-1 (p. 3-6) for a description of codes and analytes. The parameters listed in this table, Table E-1, are in addition to the contamination indicator parameters (I) and radiological indicator parameters (RI) routinely scheduled at all monitoring locations for 2001. Wells measured for potentiometric (water-level) data only are designated by "p."

\* Monitoring for certain parameters is required by the RCRA §3008(h) Order on Consent. (See p. ECS-4.)

**Table E-2**  
**2001 Contamination Indicator and Radiological Indicator Results**  
**Sand and Gravel Unit**

Location Code	Hydraulic Position	pH (standard units)	Conductivity ( $\mu\text{mhos/cm@25}^\circ\text{C}$ )	Gross Alpha ( $\mu\text{Ci/mL}$ )	Gross Beta ( $\mu\text{Ci/mL}$ )	Tritium ( $\mu\text{Ci/mL}$ )
301	UP(1)	6.93	<b>940</b>	1.77 $\pm$ 1.63E-09	1.10 $\pm$ 0.41E-08	5.54 $\pm$ 8.18E-08
301	UP(2)	<b>7.14</b>	1,034	1.13 $\pm$ 2.07E-09	<b>1.15<math>\pm</math>0.39E-08</b>	<b>9.91<math>\pm</math>8.23E-08</b>
301	UP(3)	6.92	<b>1,422</b>	3.59 $\pm$ 3.28E-09	8.54 $\pm$ 3.21E-09	-1.32 $\pm$ 0.81E-07
301	UP(4)	<b>6.73</b>	1,389	<b>5.20<math>\pm</math>3.81E-09</b>	<b>5.51<math>\pm</math>3.78E-09</b>	-8.85 $\pm$ 5.76E-08
401	UP(1)	<b>6.67</b>	<b>2,745</b>	1.27 $\pm$ 3.62E-09	4.08 $\pm$ 7.35E-09	-6.42 $\pm$ 5.78E-08
401	UP(2)	<b>7.07</b>	<b>1,740</b>	<b>1.55<math>\pm</math>0.92E-08</b>	3.20 $\pm$ 7.39E-09	<b>2.33<math>\pm</math>0.76E-07</b>
401	UP(3)	7.04	2,415	2.26 $\pm$ 4.99E-09	-0.16 $\pm$ 5.18E-09	-1.46 $\pm$ 0.82E-07
401	UP(4)	6.77	2,230	0.00 $\pm$ 5.62E-09	<b>1.10<math>\pm</math>0.74E-08</b>	-9.64 $\pm$ 8.16E-08
403	UP(1)	7.21	830	<b>1.64<math>\pm</math>1.52E-09</b>	<b>3.84<math>\pm</math>3.66E-09</b>	<b>9.62<math>\pm</math>8.16E-08</b>
403	UP(2)	<b>7.33</b>	1,013	0.81 $\pm$ 1.69E-09	6.29 $\pm$ 2.59E-09	7.59 $\pm$ 8.22E-08
403	UP(3)	<b>6.77</b>	<b>1,226</b>	2.16 $\pm$ 3.00E-09	8.25 $\pm$ 3.90E-09	-1.30 $\pm$ 0.81E-07
403	UP(4)	6.89	<b>790</b>	2.08 $\pm$ 3.36E-09	<b>1.06<math>\pm</math>0.40E-08</b>	-1.11 $\pm$ 0.81E-07
706	UP(1)	<b>6.99</b>	<b>776</b>	0.72 $\pm$ 1.10E-09	<b>1.79<math>\pm</math>0.27E-08</b>	4.71 $\pm$ 8.25E-08
706	UP(2)	6.78	852	1.14 $\pm$ 1.64E-09	1.49 $\pm$ 0.25E-08	-9.77 $\pm$ 7.75E-08
706	UP(3)	6.80	849	1.29 $\pm$ 2.06E-09	<b>1.25<math>\pm</math>0.25E-08</b>	-0.36 $\pm$ 8.28E-08
706	UP(4)	<b>6.55</b>	<b>978</b>	-0.29 $\pm$ 2.27E-09	1.45 $\pm$ 0.27E-08	8.25 $\pm$ 8.26E-08
NB1S	UP(1)	<b>6.49</b>	<b>586</b>	0.15 $\pm$ 1.17E-09	4.54 $\pm$ 1.97E-09	<b>1.65<math>\pm</math>0.57E-07</b>
NB1S	UP(2)	<b>6.90</b>	788	0.00 $\pm$ 1.34E-09	1.55 $\pm$ 1.32E-09	-1.36 $\pm$ 0.80E-07
NB1S	UP(3)	6.81	809	-1.03 $\pm$ 1.53E-09	0.36 $\pm$ 1.89E-09	0.42 $\pm$ 8.18E-08
NB1S	UP(4)	6.76	<b>991</b>	0.58 $\pm$ 1.63E-09	<b>4.58<math>\pm</math>2.01E-09</b>	5.87 $\pm$ 8.06E-08
201	DOWN(1)	6.48	781	1.17 $\pm$ 1.72E-09	2.20 $\pm$ 0.42E-08	-1.11 $\pm$ 0.89E-07
201	DOWN(2)	6.35	<b>1,576</b>	0.35 $\pm$ 2.42E-09	<b>5.32<math>\pm</math>0.47E-08</b>	-4.98 $\pm$ 9.88E-08
201	DOWN(3)	<b>6.87</b>	587	1.33 $\pm$ 1.37E-09	<b>1.47<math>\pm</math>0.32E-08</b>	-2.64 $\pm$ 0.92E-07
201	DOWN(4)	<b>6.25</b>	<b>324</b>	-0.49 $\pm$ 1.21E-09	1.51 $\pm$ 0.31E-08	-1.54 $\pm$ 0.83E-07
103	DOWN(1)	<b>8.42</b>	<b>2,200</b>	3.59 $\pm$ 2.94E-09	<b>5.99<math>\pm</math>0.65E-08</b>	-0.60 $\pm$ 5.89E-08
103	DOWN(2)	8.27	4,170	3.48 $\pm$ 4.28E-09	1.55 $\pm$ 0.08E-07	<b>1.64<math>\pm</math>0.83E-07</b>
103	DOWN(3)	7.89	<b>6,485</b>	<b>5.55<math>\pm</math>3.93E-09</b>	<b>2.84<math>\pm</math>0.10E-07</b>	6.32 $\pm$ 8.16E-08
103	DOWN(4)	<b>7.73</b>	5,430	2.06 $\pm$ 7.77E-09	2.22 $\pm$ 0.12E-07	3.02 $\pm$ 8.27E-08
104	DOWN(1)	<b>7.68</b>	1,513	5.61 $\pm$ 8.93E-09	<b>4.24<math>\pm</math>0.02E-05</b>	3.24 $\pm$ 0.87E-07
104	DOWN(2)	<b>6.88</b>	<b>1,469</b>	-1.40 $\pm$ 1.03E-08	4.47 $\pm$ 0.02E-05	<b>4.05<math>\pm</math>0.86E-07</b>
104	DOWN(3)	7.14	1,786	7.81 $\pm$ 9.18E-09	5.12 $\pm$ 0.02E-05	3.58 $\pm$ 0.85E-07
104	DOWN(4)	6.97	<b>1,965</b>	2.44 $\pm$ 3.02E-09	<b>5.80<math>\pm</math>0.01E-05</b>	<b>2.51<math>\pm</math>0.60E-07</b>
111	DOWN(1)	6.64	644	6.64 $\pm$ 8.62E-09	5.81 $\pm$ 0.10E-06	7.19 $\pm$ 8.30E-08
111	DOWN(2)	<b>6.70</b>	<b>594</b>	-4.04 $\pm$ 8.74E-09	<b>4.20<math>\pm</math>0.08E-06</b>	1.75 $\pm$ 0.83E-07
111	DOWN(3)	<b>6.58</b>	794	<b>1.03<math>\pm</math>0.95E-08</b>	7.02 $\pm$ 0.11E-06	<b>3.91<math>\pm</math>0.86E-07</b>
111	DOWN(4)	6.60	<b>1,180</b>	2.47 $\pm$ 3.09E-09	<b>1.04<math>\pm</math>0.01E-05</b>	5.13 $\pm$ 8.27E-08

Sample collection quarter is noted in parentheses next to hydraulic position. Hydraulic position is relative to other wells within the same hydrogeologic unit.

Note: Bolding convention applied to these data. (See p. E-2.)

**Table E-2 (continued)**  
**2001 Contamination Indicator and Radiological Indicator Results**  
**Sand and Gravel Unit**

Location Code	Hydraulic Position	pH (standard units)	Conductivity ( $\mu$ mhos/cm@25°C)	Gross Alpha ( $\mu$ Ci/mL)	Gross Beta ( $\mu$ Ci/mL)	Tritium ( $\mu$ Ci/mL)
205	DOWN(1)	<b>7.51</b>	<b>1,702</b>	-0.50±2.51E-09	1.19±0.47E-08	<b>1.11±0.58E-07</b>
205	DOWN(2)	7.06	1,910	-0.23±2.98E-09	<b>1.14±0.42E-08</b>	2.25±8.65E-08
205	DOWN(3)	7.03	3,200	2.05±3.97E-09	<b>2.59±0.45E-08</b>	-9.15±8.25E-08
205	DOWN(4)	<b>6.59</b>	<b>3,835</b>	-2.96±6.25E-09	2.27±0.66E-08	-9.89±8.18E-08
406	DOWN(1)	<b>7.01</b>	<b>960</b>	<b>2.33±1.61E-09</b>	<b>8.65±2.86E-09</b>	<b>1.85±0.84E-07</b>
406	DOWN(2)	6.58	2,065	0.95±2.12E-09	<b>1.57±0.23E-08</b>	7.84±8.05E-08
406	DOWN(3)	6.50	<b>2,220</b>	1.69±2.86E-09	1.14±0.32E-08	1.17±0.81E-07
406	DOWN(4)	<b>6.47</b>	1,768	-1.42±3.00E-09	1.17±0.33E-08	5.69±8.28E-08
408	DOWN(1)	<b>7.14</b>	<b>2,140</b>	-3.40±2.59E-09	<b>4.89±0.01E-04</b>	-1.17±1.14E-07
408	DOWN(2)	<b>6.76</b>	2,190	<b>6.44±5.52E-09</b>	5.60±0.01E-04	0.95±1.15E-07
408	DOWN(3)	6.98	<b>2,560</b>	0.26±1.26E-08	<b>6.28±0.02E-04</b>	-1.88±0.92E-07
408	DOWN(4)	7.04	2,525	0.13±2.75E-09	6.07±0.01E-04	0.00±1.11E-07
501	DOWN(1)	<b>7.11</b>	1,886	0.52±1.44E-08	2.66±0.01E-04	1.40±0.84E-07
501	DOWN(2)	<b>6.90</b>	<b>1,693</b>	-1.60±1.88E-08	<b>2.22±0.01E-04</b>	<b>1.79±0.83E-07</b>
501	DOWN(3)	7.08	2,230	0.85±1.24E-08	3.17±0.01E-04	1.66±0.83E-07
501	DOWN(4)	6.92	<b>2,415</b>	2.02±5.18E-09	<b>3.24±0.01E-04</b>	<b>8.92±8.25E-08</b>
502	DOWN(1)	<b>7.18</b>	1,867	-0.51±1.00E-08	<b>1.93±0.01E-04</b>	5.24±8.28E-08
502	DOWN(2)	<b>6.82</b>	<b>1,764</b>	-1.30±2.02E-08	<b>1.93±0.01E-04</b>	<b>1.61±0.83E-07</b>
502	DOWN(3)	7.04	1,891	0.62±1.22E-08	2.21±0.01E-04	1.24±0.82E-07
502	DOWN(4)	7.02	<b>2,095</b>	1.14±4.34E-09	<b>2.33±0.01E-04</b>	9.13±8.33E-08
602A	DOWN(1)	<b>6.72</b>	550	<b>1.55±1.18E-09</b>	<b>9.74±2.85E-09</b>	<b>4.79±0.85E-07</b>
602A	DOWN(2)	<b>7.18</b>	<b>668</b>	1.36±1.41E-09	<b>1.57±0.25E-08</b>	9.17±8.05E-08
602A	DOWN(3)	6.83	549	-0.35±1.24E-09	1.22±0.29E-08	-2.97±1.11E-07
602A	DOWN(4)	6.74	<b>324</b>	-0.12±1.54E-09	1.26±0.30E-08	2.49±0.84E-07
604	DOWN(1)	<b>6.30</b>	<b>1,130</b>	1.02±2.34E-09	6.54±3.78E-09	-1.28±0.58E-07
604	DOWN(2)	<b>6.45</b>	<b>928</b>	1.09±1.92E-09	5.77±2.66E-09	7.26±8.05E-08
604	DOWN(3)	6.31	956	-0.54±2.27E-09	<b>6.77±3.74E-09</b>	5.15±8.15E-08
604	DOWN(4)	6.43	1,059	1.53±1.74E-09	<b>5.02±2.56E-09</b>	0.50±8.14E-08
8605	DOWN(1)	<b>7.43</b>	1,311	5.30±9.79E-09	1.13±0.01E-05	3.88±0.88E-07
8605	DOWN(2)	6.78	<b>1,104</b>	0.20±1.53E-08	1.25±0.01E-05	<b>5.30±0.88E-07</b>
8605	DOWN(3)	<b>6.76</b>	1,463	1.42±1.47E-08	<b>1.30±0.02E-05</b>	4.90±0.87E-07
8605	DOWN(4)	6.86	<b>1,841</b>	<b>1.37±0.50E-08</b>	<b>1.00±0.01E-05</b>	0.95±8.15E-08
8607	DOWN(1)	6.26	<b>1,200</b>	-0.17±1.78E-09	2.39±0.43E-08	-1.62±0.86E-07
8607	DOWN(2)	<b>6.65</b>	2,115	-0.21±2.76E-09	3.44±0.41E-08	0.78±7.44E-08
8607	DOWN(3)	6.50	<b>2,330</b>	1.28±2.84E-09	<b>3.92±0.45E-08</b>	-7.84±8.32E-08
8607	DOWN(4)	<b>6.24</b>	1,649	-1.30±3.24E-09	<b>2.24±0.49E-08</b>	-4.84±8.11E-08

Sample collection quarter is noted in parentheses next to hydraulic position. Hydraulic position is relative to other wells within the same hydrogeologic unit.

Note: Bolding convention applied to these data. (See p. E-2.)



**Table E-2 (continued)**  
**2001 Contamination Indicator and Radiological Indicator Results**  
**Sand and Gravel Unit**

<b>Location Code</b>	<b>Hydraulic Position</b>	<b>pH</b> (standard units)	<b>Conductivity</b> ( $\mu$ mhos/cm@25°C)	<b>Gross Alpha</b> ( $\mu$ Ci/mL)	<b>Gross Beta</b> ( $\mu$ Ci/mL)	<b>Tritium</b> ( $\mu$ Ci/mL)
8609	DOWN(1)	<b>7.10</b>	<b>1,324</b>	-0.51±2.51E-09	1.03±0.02E-06	<b>5.83±0.90E-07</b>
8609	DOWN(2)	6.95	1,340	-1.05±1.62E-08	<b>8.18±0.39E-07</b>	4.47±0.87E-07
8609	DOWN(3)	<b>7.10</b>	1,470	1.50±1.55E-08	9.93±0.43E-07	4.96±0.62E-07
8609	DOWN(4)	<b>6.93</b>	<b>1,618</b>	1.82±2.90E-09	<b>1.07±0.02E-06</b>	<b>4.07±0.86E-07</b>
105	DOWN(1)	<b>7.64</b>	1,594	0.46±1.27E-08	4.16±0.09E-06	<b>3.84±0.88E-07</b>
105	DOWN(2)	<b>6.87</b>	<b>1,504</b>	-1.07±1.66E-08	<b>3.69±0.08E-06</b>	<b>5.29±0.87E-07</b>
105	DOWN(3)	7.30	1,636	2.81±8.30E-09	4.14±0.07E-06	4.13±0.88E-07
105	DOWN(4)	7.01	<b>1,726</b>	0.00±3.42E-09	<b>5.40±0.05E-06</b>	4.20±0.87E-07
106	DOWN(1)	<b>6.86</b>	1,335	2.20±2.45E-09	<b>9.13±3.58E-09</b>	<b>1.18±0.10E-06</b>
106	DOWN(2)	<b>6.70</b>	<b>1,244</b>	0.96±2.30E-09	5.43±3.63E-09	1.29±0.10E-06
106	DOWN(3)	6.83	1,400	<b>4.61±3.36E-09</b>	<b>4.10±4.10E-09</b>	1.22±0.10E-06
106	DOWN(4)	<b>6.70</b>	<b>1,526</b>	2.04±3.52E-09	6.35±3.41E-09	<b>1.82±0.08E-06</b>
116	DOWN(1)	7.25	<b>1,582</b>	1.42±1.67E-09	3.18±0.10E-07	2.88±0.84E-07
116	DOWN(2)	<b>7.32</b>	<b>3,260</b>	3.28±5.38E-09	<b>4.56±0.18E-07</b>	<b>3.03±0.84E-07</b>
116	DOWN(3)	7.04	2,190	3.34±4.86E-09	<b>3.13±0.15E-07</b>	<b>1.35±0.82E-07</b>
116	DOWN(4)	<b>6.86</b>	1,676	1.65±6.64E-09	3.27±0.15E-07	1.51±0.84E-07
605	DOWN(1)	<b>7.37</b>	<b>712</b>	<b>1.52±1.10E-09</b>	5.79±0.40E-08	-6.20±8.20E-08
605	DOWN(2)	7.21	861	0.53±1.45E-09	<b>7.19±0.39E-08</b>	-9.66±7.77E-08
605	DOWN(3)	<b>6.38</b>	<b>1,038</b>	-0.32±1.70E-09	6.24±0.42E-08	-6.82±8.31E-08
605	DOWN(4)	7.13	873	1.17±2.10E-09	<b>3.94±0.35E-08</b>	5.07±8.29E-08
801	DOWN(1)	<b>7.63</b>	<b>1,119</b>	-1.66±7.29E-09	<b>7.30±0.11E-06</b>	1.05±0.60E-07
801	DOWN(2)	6.64	2,120	-0.52±1.72E-08	<b>1.19±0.01E-05</b>	<b>8.94±8.17E-08</b>
801	DOWN(3)	<b>6.61</b>	<b>2,350</b>	0.37±1.27E-08	1.16±0.01E-05	<b>2.56±0.84E-07</b>
801	DOWN(4)	<b>6.61</b>	1,782	-1.07±3.79E-09	9.76±0.07E-06	1.67±0.82E-07
802	DOWN(1)	<b>7.90</b>	589	-0.52±1.25E-09	4.44±3.17E-09	-5.48±5.89E-08
802	DOWN(2)	<b>6.69</b>	<b>353</b>	1.29±8.94E-10	3.84±1.85E-09	-1.47±0.78E-07
802	DOWN(3)	7.06	468	<b>1.52±1.01E-09</b>	<b>2.67±1.84E-09</b>	-6.22±8.22E-08
802	DOWN(4)	6.96	<b>1,230</b>	3.31±3.84E-09	<b>1.37±0.33E-08</b>	<b>1.74±0.84E-07</b>
803	DOWN(1)	<b>6.84</b>	<b>1,487</b>	1.08±1.89E-09	<b>2.04±0.37E-08</b>	<b>3.42±0.59E-07</b>
803	DOWN(2)	<b>6.98</b>	1,298	0.57±2.64E-09	1.52±0.42E-08	<b>8.92±8.32E-08</b>
803	DOWN(3)	6.92	<b>772</b>	<b>4.09±3.83E-09</b>	<b>1.24±0.44E-08</b>	1.02±0.84E-07
803	DOWN(4)	<b>6.98</b>	1,378	-0.38±3.63E-09	1.38±0.45E-08	1.96±0.84E-07
804	DOWN(1)	6.92	<b>853</b>	1.07±1.28E-09	3.00±0.08E-07	<b>2.78±0.82E-07</b>
804	DOWN(2)	<b>7.03</b>	<b>1,592</b>	0.34±2.27E-09	<b>4.68±0.11E-07</b>	1.45±0.59E-07
804	DOWN(3)	6.85	1,342	0.52±2.58E-09	3.37±0.09E-07	1.49±0.60E-07
804	DOWN(4)	<b>6.69</b>	946	-0.52±1.74E-09	<b>2.98±0.07E-07</b>	6.10±8.22E-08

Sample collection quarter is noted in parentheses next to hydraulic position. Hydraulic position is relative to other wells within the same hydrogeologic unit.

Note: Bolding convention applied to these data. (See p. E-2.)

**Table E-2 (concluded)**  
**2001 Contamination Indicator and Radiological Indicator Results**  
**Sand and Gravel Unit**

<b>Location Code</b>	<b>Hydraulic Position</b>	<b>pH</b> (standard units)	<b>Conductivity</b> ( $\mu\text{mhos/cm@25}^\circ\text{C}$ )	<b>Gross Alpha</b> ( $\mu\text{Ci/mL}$ )	<b>Gross Beta</b> ( $\mu\text{Ci/mL}$ )	<b>Tritium</b> ( $\mu\text{Ci/mL}$ )
8603	DOWN(1)	7.40	1,742	-2.28 $\pm$ 9.96E-09	2.31 $\pm$ 0.02E-05	4.19 $\pm$ 0.89E-07
8603	DOWN(2)	<b>6.88</b>	<b>1,615</b>	-0.94 $\pm$ 2.03E-08	<b>2.04<math>\pm</math>0.02E-05</b>	<b>5.08<math>\pm</math>0.62E-07</b>
8603	DOWN(3)	<b>7.42</b>	1,754	0.30 $\pm$ 1.01E-08	2.48 $\pm$ 0.02E-05	4.00 $\pm$ 0.85E-07
8603	DOWN(4)	6.98	<b>1,802</b>	0.77 $\pm$ 3.86E-09	<b>2.56<math>\pm</math>0.01E-05</b>	<b>3.50<math>\pm</math>0.86E-07</b>
8604	DOWN(1)	<b>7.74</b>	1,575	0.00 $\pm$ 1.05E-08	<b>3.65<math>\pm</math>0.03E-05</b>	3.48 $\pm$ 0.88E-07
8604	DOWN(2)	<b>6.93</b>	<b>820</b>	-1.35 $\pm$ 1.59E-08	3.77 $\pm$ 0.03E-05	3.06 $\pm$ 0.84E-07
8604	DOWN(3)	7.27	1,772	0.91 $\pm$ 1.33E-08	<b>4.84<math>\pm</math>0.03E-05</b>	<b>3.78<math>\pm</math>0.86E-07</b>
8604	DOWN(4)	6.99	<b>1,955</b>	2.99 $\pm$ 4.35E-09	4.34 $\pm$ 0.01E-05	<b>2.62<math>\pm</math>0.85E-07</b>
8612	DOWN(1)	7.22	<b>1,246</b>	1.48 $\pm$ 2.20E-09	2.91 $\pm$ 3.17E-09	<b>5.18<math>\pm</math>0.89E-07</b>
8612	DOWN(2)	<b>7.10</b>	1,279	1.50 $\pm$ 2.57E-09	<b>5.13<math>\pm</math>3.64E-09</b>	<b>3.84<math>\pm</math>0.87E-07</b>
8612	DOWN(3)	7.17	1,274	1.68 $\pm$ 2.85E-09	0.43 $\pm$ 3.81E-09	4.97 $\pm$ 0.88E-07
8612	DOWN(4)	<b>7.28</b>	<b>1,284</b>	0.52 $\pm$ 3.50E-09	0.47 $\pm$ 3.77E-09	3.99 $\pm$ 0.87E-07

Sample collection quarter is noted in parentheses next to hydraulic position. Hydraulic position is relative to other wells within the same hydrogeologic unit.

Note: Bolding convention applied to these data. (See p. E-2.)

**Table E-3**  
**2001 Contamination Indicator and Radiological Indicator Results**  
**Lavery Till-Sand Unit**

<b>Location Code</b>	<b>Hydraulic Position</b>	<b>pH</b> (standard units)	<b>Conductivity</b> ( $\mu$ mhos/cm@25°C)	<b>Gross Alpha</b> ( $\mu$ Ci/mL)	<b>Gross Beta</b> ( $\mu$ Ci/mL)	<b>Tritium</b> ( $\mu$ Ci/mL)
302	UP(1)	<b>6.69</b>	2,565	2.76 $\pm$ 4.06E-09	7.11 $\pm$ 4.57E-09	5.60 $\pm$ 8.15E-08
302	UP(2)	6.92	2,600	3.72 $\pm$ 6.10E-09	6.57 $\pm$ 5.20E-09	<b>1.73<math>\pm</math>0.76E-07</b>
302	UP(3)	<b>7.23</b>	<b>2,800</b>	6.25 $\pm$ 6.32E-09	<b>8.21<math>\pm</math>5.34E-09</b>	-5.42 $\pm$ 8.19E-08
302	UP(4)	7.04	<b>2,530</b>	4.61 $\pm$ 5.73E-09	2.31 $\pm$ 4.87E-09	-6.85 $\pm$ 8.16E-08
402	UP(1)	7.01	<b>2,245</b>	0.92 $\pm$ 3.36E-09	<b>7.46<math>\pm</math>4.53E-09</b>	7.44 $\pm$ 8.19E-08
402	UP(2)	7.18	<b>2,140</b>	1.56 $\pm$ 3.75E-09	4.71 $\pm$ 4.77E-09	<b>1.99<math>\pm</math>0.76E-07</b>
402	UP(3)	<b>7.00</b>	<b>2,140</b>	<b>5.55<math>\pm</math>4.83E-09</b>	-0.65 $\pm$ 5.15E-09	-5.09 $\pm$ 8.29E-08
402	UP(4)	<b>7.21</b>	2,175	3.52 $\pm$ 5.67E-09	2.93 $\pm$ 4.85E-09	-1.26 $\pm$ 0.82E-07
204	DOWN(1)	<b>7.48</b>	1,191	0.58 $\pm$ 1.65E-09	0.90 $\pm$ 3.58E-09	5.24 $\pm$ 8.16E-08
204	DOWN(2)	<b>7.10</b>	<b>626</b>	0.80 $\pm$ 2.29E-09	3.24 $\pm$ 3.49E-09	-0.81 $\pm$ 5.92E-08
204	DOWN(3)	7.35	<b>1,212</b>	2.14 $\pm$ 2.52E-09	2.38 $\pm$ 2.77E-09	2.21 $\pm$ 8.05E-08
204	DOWN(4)	7.45	<b>1,212</b>	0.00 $\pm$ 2.47E-09	<b>4.32<math>\pm</math>3.62E-09</b>	-6.65 $\pm$ 8.19E-08
206	DOWN(1)	7.52	<b>987</b>	<b>2.78<math>\pm</math>2.15E-09</b>	3.09 $\pm$ 3.14E-09	<b>1.44<math>\pm</math>0.83E-07</b>
206	DOWN(2)	<b>7.62</b>	1,020	0.15 $\pm$ 2.02E-09	<b>2.82<math>\pm</math>2.53E-09</b>	8.60 $\pm$ 5.73E-08
206	DOWN(3)	<b>7.62</b>	1,026	0.00 $\pm$ 2.18E-09	1.77 $\pm$ 2.44E-09	-5.46 $\pm$ 5.85E-08
206	DOWN(4)	<b>7.50</b>	<b>1,051</b>	0.18 $\pm$ 2.92E-09	0.81 $\pm$ 2.59E-09	-9.64 $\pm$ 8.18E-08
208	DOWN(1)	<b>7.67</b>	<b>293</b>	1.14 $\pm$ 0.88E-09	1.80 $\pm$ 1.24E-09	5.84 $\pm$ 8.10E-08
208	DOWN(2)	8.00	290	6.14 $\pm$ 7.50E-10	1.12 $\pm$ 1.19E-09	-3.20 $\pm$ 8.03E-08
208	DOWN(3)	<b>8.08</b>	<b>281</b>	-2.74 $\pm$ 7.66E-10	0.50 $\pm$ 1.21E-09	-9.96 $\pm$ 8.12E-08
208	DOWN(4)	7.95	284	<b>1.28<math>\pm</math>0.88E-09</b>	<b>2.19<math>\pm</math>1.24E-09</b>	-1.38 $\pm$ 0.80E-07

Sample collection quarter is noted in parentheses next to hydraulic position. Hydraulic position is relative to other wells within the same hydrogeologic unit.

Note: Bolding convention applied to these data. (See p. E-2.)

**Table E-4**  
**2001 Contamination Indicator and Radiological Indicator Results**  
**Weathered Lavery Till Unit**

<b>Location Code</b>	<b>Hydraulic Position</b>	<b>pH</b> (standard units)	<b>Conductivity</b> ( $\mu$ mhos/cm@25°C)	<b>Gross Alpha</b> ( $\mu$ Ci/mL)	<b>Gross Beta</b> ( $\mu$ Ci/mL)	<b>Tritium</b> ( $\mu$ Ci/mL)
908	UP(1)	6.83	2,960	1.36±0.45E-08	9.53±5.49E-09	-9.57±8.19E-08
908	UP(3)	6.90	3,070	4.16±7.30E-09	1.81±0.85E-08	-5.58±8.11E-08
1005	UP(1)	7.27	810	2.20±1.79E-09	4.23±2.28E-09	-1.82±0.83E-07
1005	UP(3)	7.36	770	0.89±2.11E-09	3.97±2.54E-09	-1.04±0.80E-07
1008C	UP(1)	7.31	620	-0.26±1.29E-09	1.52±1.82E-09	-1.26±0.81E-07
1008C	UP(3)	7.00	606	1.41±1.52E-09	2.10±1.81E-09	4.28±8.20E-08
906	DOWN(1)	7.31	556	1.51±1.45E-09	3.66±1.94E-09	-1.24±0.83E-07
906	DOWN(3)	7.21	561	0.17±1.28E-09	3.97±2.03E-09	-1.23±8.25E-08
1006	DOWN(1)	6.99	2,280	2.63±4.35E-09	1.03±0.66E-08	-6.54±8.19E-08
1006	DOWN(3)	7.14	1,883	3.42±4.77E-09	6.17±6.97E-09	-5.47±8.16E-08
1007	DOWN(1)	6.78	1,355	4.66±2.95E-09	3.61±4.92E-09	1.81±0.81E-07
1007	DOWN(3)	6.97	1,246	1.32±3.39E-09	5.12±5.09E-09	-5.73±8.05E-08
NDATR	DOWN(1)	<b>8.13</b>	885	3.26±1.64E-09	1.18±0.06E-07	3.46±0.16E-06
NDATR	DOWN(2)	7.53	953	<b>3.45±2.14E-09</b>	<b>8.91±0.56E-08</b>	<b>1.07±0.04E-05</b>
NDATR	DOWN(3)	7.78	<b>856</b>	1.70±2.08E-09	<b>1.78±0.07E-07</b>	7.95±0.29E-06
NDATR	DOWN(4)	<b>6.92</b>	<b>983</b>	-0.16±2.48E-09	1.52±0.07E-07	<b>2.38±0.13E-06</b>
909	DOWN(1)	6.81	1,296	0.96±2.10E-09	3.84±0.16E-07	7.39±0.94E-07
909	DOWN(3)	6.77	1,359	2.41±3.33E-09	4.06±0.14E-07	1.09±0.10E-06

Sample collection quarter is noted in parentheses next to hydraulic position. Hydraulic position is relative to other wells within the same hydrogeologic unit.

Note: Bolding convention applied to these data. (See p. E-2.)

**Table E-5**  
**2001 Contamination Indicator and Radiological Indicator Results**  
**Unweathered Lavery Till Unit**

Location Code	Hydraulic Position	pH (standard units)	Conductivity ( $\mu$ mhos/cm@25°C)	Gross Alpha ( $\mu$ Ci/mL)	Gross Beta ( $\mu$ Ci/mL)	Tritium ( $\mu$ Ci/mL)
405	UP(1)	7.35	<b>728</b>	0.55±2.00E-09	<b>8.18±3.50E-09</b>	-0.23±8.15E-08
405	UP(2)	<b>7.59</b>	1,165	0.00±2.15E-09	6.69±3.70E-09	<b>1.56±0.83E-07</b>
405	UP(3)	7.34	966	0.60±1.93E-09	1.77±3.66E-09	-1.44±0.81E-07
405	UP(4)	<b>6.99</b>	<b>2,000</b>	1.26±5.10E-09	4.47±4.17E-09	-1.46±0.82E-07
110	DOWN(1)	7.56	<b>566</b>	1.20±1.45E-09	<b>7.92±2.17E-09</b>	1.36±0.10E-06
110	DOWN(2)	7.58	<b>534</b>	<b>1.66±1.42E-09</b>	<b>2.89±1.58E-09</b>	<b>1.38±0.10E-06</b>
110	DOWN(3)	<b>7.63</b>	558	0.17±1.29E-09	3.19±1.98E-09	<b>1.34±0.10E-06</b>
110	DOWN(4)	<b>7.46</b>	548	0.83±1.34E-09	4.20±1.93E-09	1.35±0.11E-06
704	DOWN(1)	<b>6.75</b>	<b>866</b>	1.04±1.72E-09	<b>1.13±0.36E-08</b>	2.60±8.22E-08
704	DOWN(2)	6.73	875	1.17±1.39E-09	<b>8.91±2.00E-09</b>	-3.90±7.10E-08
704	DOWN(3)	<b>6.49</b>	1,000	0.37±2.14E-09	1.08±0.29E-08	-1.41±0.82E-07
704	DOWN(4)	6.63	<b>1,112</b>	0.17±2.23E-09	1.02±0.29E-08	0.74±8.22E-08
707	DOWN(1)	<b>6.99</b>	<b>424</b>	0.52±1.06E-09	3.01±1.86E-09	-1.12±0.83E-07
707	DOWN(2)	<b>6.60</b>	<b>1,118</b>	-0.11±1.47E-09	<b>9.84±1.80E-09</b>	-6.15±7.04E-08
707	DOWN(3)	6.68	933	0.14±2.08E-09	<b>2.85±2.04E-09</b>	-6.19±8.26E-08
707	DOWN(4)	6.91	936	1.98±2.02E-09	5.58±2.10E-09	-1.55±5.89E-08
107	DOWN(1)	7.24	784	0.80±1.13E-09	5.71±1.47E-09	<b>9.53±0.66E-07</b>
107	DOWN(2)	7.41	<b>729</b>	0.59±1.14E-09	<b>2.42±1.35E-09</b>	7.36±0.89E-07
107	DOWN(3)	<b>7.46</b>	752	0.67±1.71E-09	4.39±2.09E-09	<b>6.80±0.88E-07</b>
107	DOWN(4)	<b>7.10</b>	<b>838</b>	<b>2.07±1.45E-09</b>	<b>5.75±1.48E-09</b>	9.51±0.95E-07
108	DOWN(1)	<b>7.61</b>	588	1.46±1.40E-09	<b>3.99±1.94E-09</b>	-0.50±8.02E-08
108	DOWN(2)	7.64	569	<b>1.50±1.34E-09</b>	2.68±1.56E-09	<b>1.04±0.81E-07</b>
108	DOWN(3)	<b>7.70</b>	<b>596</b>	1.18±1.30E-09	2.24±1.91E-09	9.04±8.09E-08
108	DOWN(4)	7.63	<b>508</b>	1.40±1.28E-09	1.44±1.75E-09	7.12±8.33E-08
409	DOWN(1)	<b>7.78</b>	<b>376</b>	4.79±8.65E-10	3.04±1.32E-09	-4.28±8.02E-08
409	DOWN(2)	8.03	364	1.08±0.92E-09	<b>3.48±1.35E-09</b>	-1.03±0.77E-07
409	DOWN(3)	7.97	352	8.54±8.63E-10	2.57±1.26E-09	-1.71±0.81E-07
409	DOWN(4)	<b>8.15</b>	<b>347</b>	<b>1.30±0.99E-09</b>	<b>2.41±1.26E-09</b>	-5.29±8.06E-08
910	DOWN(1)	7.59	1,368	3.45±2.54E-09	2.33±0.43E-08	-2.43±0.81E-07
910	DOWN(3)	7.27	1,304	3.20±2.99E-09	1.90±0.46E-08	-1.39±0.80E-07

Sample collection quarter is noted in parentheses next to hydraulic position. Hydraulic position is relative to other wells within the same hydrogeologic unit.

Note: Bolding convention applied to these data. (See p. E-2.)

**Table E-6**  
**2001 Contamination Indicator and Radiological Indicator Results**  
**Kent Recessional Sequence**

Location Code	Hydraulic Position	pH (standard units)	Conductivity ( $\mu\text{mhos/cm@25}^\circ\text{C}$ )	Gross Alpha ( $\mu\text{Ci/mL}$ )	Gross Beta ( $\mu\text{Ci/mL}$ )	Tritium ( $\mu\text{Ci/mL}$ )
901	UP(1)	7.63	382	4.22±9.66E-10	3.50±1.56E-09	-1.79±0.81E-07
901	UP(3)	7.56	371	7.77±7.68E-10	2.79±1.12E-09	-1.18±0.57E-07
902	UP(1)	7.86	456	1.44±1.27E-09	3.78±1.92E-09	-2.02±0.81E-07
902	UP(3)	8.02	438	1.46±1.19E-09	1.46±1.30E-09	-8.81±8.20E-08
1008B	UP(1)	7.77	397	7.18±6.53E-10	3.77±0.96E-09	-2.14±7.79E-08
1008B	UP(3)	7.67	383	4.76±9.31E-10	1.06±1.27E-09	-1.39±0.79E-07
903	DOWN(1)	7.54	932	0.49±1.93E-09	0.94±2.36E-09	-2.20±0.81E-07
903	DOWN(3)	7.55	886	1.00±2.01E-09	2.44±2.42E-09	-1.00±0.82E-07
8610	DOWN(1)	7.74	1,090	0.90±2.07E-09	4.64±2.60E-09	-1.85±0.81E-07
8610	DOWN(3)	7.55	870	1.16±1.61E-09	3.61±2.62E-09	-1.38±0.81E-07
8611	DOWN(1)	7.64	971	1.90±1.54E-09	2.73±2.54E-09	-1.76±0.81E-07
8611	DOWN(3)	7.56	907	1.93±1.98E-09	-0.61±2.42E-09	-1.09±0.56E-07

**Table E-7**  
**2001 Contamination Indicator and Radiological Indicator Results**  
**North Plateau Seep Monitoring Locations**

Location Code	Hydraulic Position	pH (standard units)	Conductivity ( $\mu\text{mhos/cm@25}^\circ\text{C}$ )	Gross Alpha ( $\mu\text{Ci/mL}$ )	Gross Beta ( $\mu\text{Ci/mL}$ )	Tritium ( $\mu\text{Ci/mL}$ )
GSEEP	DOWN(1)	<b>6.63</b>	1,006	0.68±1.53E-09	<b>9.41±2.58E-09</b>	6.39±0.87E-07
GSEEP	DOWN(2)	<b>6.85</b>	<b>868</b>	0.55±1.58E-09	<b>5.79±2.55E-09</b>	<b>4.14±0.87E-07</b>
GSEEP	DOWN(3)	6.67	1,094	<b>2.98±2.47E-09</b>	6.15±2.81E-09	5.21±0.89E-07
GSEEP	DOWN(4)	6.65	<b>1,180</b>	-0.18±2.83E-09	5.90±2.92E-09	<b>8.08±0.63E-07</b>
SP04	DOWN(1)	NS	NS	0.97±1.30E-09	2.73±2.53E-09	4.84±0.85E-07
SP04	DOWN(3)	NS	NS	0.69±1.60E-09	6.92±1.93E-09	2.71±0.85E-07
SP06	DOWN(1)	NS	NS	-0.44±1.07E-09	1.84±1.80E-09	3.00±0.83E-07
SP06	DOWN(3)	NS	NS	0.28±1.59E-09	2.75±1.89E-09	1.82±0.84E-07
SP11	DOWN(1)	NS	NS	1.09±1.66E-09	1.57±0.44E-08	3.22±0.82E-07
SP11	DOWN(3)	NS	NS	-0.88±2.27E-09	2.67±0.48E-08	1.64±0.83E-07
SP12	DOWN(1)	7.11	1,005	-0.08±1.56E-09	3.78±2.28E-09	4.26±0.87E-07
SP12	DOWN(3)	7.03	1,028	2.30±2.35E-09	0.41±2.66E-09	2.98±0.87E-07

NS - Not sampled.

Sample collection quarter is noted in parentheses next to hydraulic position. Hydraulic position is relative to other wells within the same hydrogeologic unit.

Note: Bolding convention applied to these data. (See p. E-2.)

**Table E-8**  
**2001 Contamination Indicator and Radiological Indicator Results**  
**North Plateau Well Points**

Location Code	Hydraulic Position	pH (standard units)	Conductivity (µmhos/cm@25°C)	Gross Alpha (µCi/mL)	Gross Beta (µCi/mL)	Tritium (µCi/mL)
WP-A	DOWN(4)	8.41	89	0.42±2.83E-10	4.83±0.21E-08	1.12±0.04E-05
WP-C	DOWN(4)	6.86	167	1.13±3.16E-10	1.54±0.13E-08	5.70±0.17E-05
WP-H	DOWN(4)	6.74	1,142	2.66±1.89E-09	9.07±0.04E-06	6.80±0.25E-06

**Table E-9**  
**2001 Detections of Volatile Organic Compounds**  
**at Selected Groundwater Monitoring Locations**

Location Code	Sampling Quarter	1,1-DCA (µg/L)	DCDFMeth (µg/L)	1,1-DCE (µg/L)	1,2-DCE(total) (µg/L)	1,2-DCE(trans) (µg/L)	1,1,1-TCA (µg/L)	TCE (µg/L)
SP12	1	<5.0*	<5.0*	<5.0	NS	<5.0	<5.0	<5.0
	3	<5.0*	<5.0*	<5.0	NS	<1.0	<5.0	<5.0
803	1	<5.0*	<5.0*	<5.0	NS	<5.0	<5.0	<5.0
	2	<b>0.5</b>	<b>0.9</b>	<5.0	NS	<5.0	<5.0	<5.0
	3	<5.0*	<5.0*	<5.0	NS	<1.0	<5.0	<5.0
	4	<5.0*	<5.0*	<5.0	NS	<1.0	<5.0	<5.0
8609	1	<5.0*	<1.0	<5.0	NS	<5.0	<5.0*	<5.0
8612	1	<b>20.5</b>	<b>5.2</b>	<5.0*	<b>30.3</b>	<5.0	<5.0*	<5.0
	2	15.0	3.4	<5.0*	<b>26.0</b>	<5.0	<5.0*	<5.0
	3	<b>14.5</b>	<b>2.9</b>	<b>0.45</b>	<b>26.0</b>	<1.0	<b>2.2</b>	<5.0
	4	16.0	3.5	<5.0*	29.5	<b>1.4</b>	<5.0*	<5.0

NS - Not sampled.

\* Compound was reported at an estimated concentration less than the practical quantitation limit.

Sample collection quarter is noted in parentheses next to hydraulic position. Hydraulic position is relative to other wells within the same hydrogeologic unit.

Note: Bolding convention applied to these data. (See p. E-2.)

**Table E-10**  
**2001 Tributyl Phosphate Sampling Results**  
**at Selected Groundwater Monitoring Locations**

Location Code	Sampling Quarter	Tributyl phosphate (TBP) (µg/L)
111	1	<10.0*
	3	16.0
8605	1	130
	3	220

Practical quantitation limit is 10 µg/L.

**Table E-11**  
**2001 Metals (µg/L) Sampling Results**  
*Title 6 NYCRR Appendix 33 List*

Location Code	Hydraulic Position	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper
<b>Sand and Gravel</b>									
111	DOWN(1)	<2	<2	87	<0.1	0.3	1	1	3
502	DOWN(1)	NS	2	429	NS	<0.3	599	4	7
502	DOWN(3)	NS	6	451	NS	0.4	1,020	3	9
8605	DOWN(1)	<2	3	137	<0.1	<0.3	1	1	1
<b>Weathered Till</b>									
NDATR	DOWN(1)	<10	<7	54	<1.0	<1.0	<2	<5	<8
NDATR	DOWN(2)	<10	<10	<b>50</b>	<1.0	<5.0	<5	<50	<25
NDATR	DOWN(3)	<10	<10	55	<1.0	<5.0	<5	<50	<25
NDATR	DOWN(4)	<10	<10	<b>76</b>	<1.0	<5.0	<5	<50	<25
909	DOWN(1)	<10	13	169	<1.0	<1.0	4	5	<8

NS - Not sampled.

\* Compound was reported at an estimated concentration less than the practical quantitation limit.

Sample collection quarter is noted in parentheses next to hydraulic position. Hydraulic position is relative to other wells within the same hydrogeologic unit.

Note: Bolding convention applied to these data. (See p. E-2.)



**Table E-11 (concluded)**  
**2001 Metals ( $\mu\text{g/L}$ ) Sampling Results**  
*Title 6 NYCRR Appendix 33 List*

<b>Location Code</b>	<b>Hydraulic Position</b>	<b>Lead</b>	<b>Mercury</b>	<b>Nickel</b>	<b>Selenium</b>	<b>Silver</b>	<b>Thallium</b>	<b>Tin</b>	<b>Vanadium</b>	<b>Zinc</b>
<b>Sand and Gravel</b>										
111	DOWN(1)	<2	<0.1	4	<3	<1	<4	<3	<1	7
502	DOWN(1)	2	<0.1	44	<3	<1	NS	NS	2	6
502	DOWN(3)	<3	<0.1	34	<2	<1	NS	NS	3	7
8605	DOWN(1)	<2	<0.1	2	<3	<1	<4	<3	<1	12
<b>Weathered Till</b>										
NDATR	DOWN(1)	<3	<0.1	<10	<5	<3	<6	<5	<5	<20
NDATR	DOWN(2)	<3	<0.2	<40	<5	<10	<10	<3,000	<50	<20
NDATR	DOWN(3)	<3	<0.2	<40	<5	<10	<10	<3,000	<50	<20
NDATR	DOWN(4)	<3	<0.2	<40	<5	<10	<10	<3,000	<50	<20
909	DOWN(1)	6	<0.1	12	<5	<3	<6	<5	<5	62

**Table E-12**  
**2001 Sampling Parameters at Early Warning Monitoring Wells ( $\mu\text{g/L}$ )**

<b>Location Code</b>	<b>Sample Quarter</b>	<b>Aluminum Total</b>	<b>Iron Total</b>	<b>Manganese Total</b>
502	(1)	69.6	6,290	33.0
	(3)	104	9,640	23.7

NS - Not sampled.

Sample collection quarter is noted in parentheses next to hydraulic position. Hydraulic position is relative to other wells within the same hydrogeologic unit.

Note: Bolding convention applied to these data. (See p. E-2.)

**Table E-13**  
**2001 Alpha-, Beta-, and Gamma-Emitting Radioisotopic Results ( $\mu\text{Ci}/\text{mL}$ )**  
**for Selected Groundwater Monitoring Locations**

Location Code	Hydraulic Position	C-14	Sr-90	Tc-99
<b>Sand and Gravel</b>				
401	UP(1)	0.88±2.44E-08	2.23±1.49E-09	0.19±1.45E-09
111	DOWN(1)	NS	2.90±0.05E-06	NS
406	DOWN(1)	2.72±2.64E-08	1.44±1.43E-09	8.50±2.60E-09
408	DOWN(1)	-0.16±2.40E-08	2.15±0.01E-04	2.35±0.37E-08
501	DOWN(1)	NS	1.33±0.01E-04	NS
502	DOWN(1)	NS	1.05±0.01E-04	NS
602A	DOWN(1)	NS	5.98±1.88E-09	NS
602A	DOWN(3)	NS	9.48±2.22E-09	NS
8605	DOWN(1)	NS	5.59±0.06E-06	NS
8609	DOWN(1)	NS	4.41±0.14E-07	NS
8609	DOWN(3)	NS	5.04±0.14E-07	NS
116	DOWN(1)	NS	1.64±0.08E-07	NS
116	DOWN(3)	NS	1.56±0.08E-07	NS
605	DOWN(1)	NS	2.70±0.32E-08	NS
605	DOWN(3)	NS	2.94±0.47E-08	NS
801	DOWN(1)	NS	<b>3.35±0.03E-06</b>	NS
801	DOWN(2)	NS	<b>6.24±0.06E-06</b>	NS
801	DOWN(3)	NS	5.59±0.07E-06	NS
801	DOWN(4)	NS	5.09±0.06E-06	NS
8603	DOWN(1)	NS	1.14±0.01E-05	NS
8603	DOWN(3)	NS	1.28±0.01E-05	NS
<b>Weathered Till</b>				
NDATR	DOWN(1)	0.00±2.41E-08	5.50±0.52E-08	-1.14±2.00E-09
NDATR	DOWN(3)	-0.16±1.46E-08	7.62±0.57E-08	-0.38±1.36E-09
909	DOWN(1)	1.86±2.49E-08	1.79±0.10E-07	-0.06±1.69E-09

NS - Not sampled.

Sample collection quarter is noted in parentheses next to hydraulic position. Hydraulic position is relative to other wells within the same hydrogeologic unit.

Note: Bolding convention applied to these data. (See p. E-2.)

**Table E-13 (concluded)**  
**2001 Alpha-, Beta-, and Gamma-Emitting Radioisotopic Results ( $\mu\text{Ci}/\text{mL}$ )**

<b>Location Code</b>	<b>Hydraulic Position</b>	<b>I-129</b>	<b>Cs-137</b>	<b>Ra-226</b>	<b>Ra-228</b>	<b>U-232</b>
<b>Sand and Gravel</b>						
401	UP(1)	0.01±4.11E-10	1.23±1.43E-08	-1.50±1.47E-10	-0.01±3.79E-10	2.16±3.19E-10
406	DOWN(1)	-0.92±6.99E-10	-0.95±8.48E-09	4.78±2.99E-10	2.06±4.43E-10	-4.27±1.06E-12
408	DOWN(1)	0.58±1.48E-09	1.13±3.46E-09	7.82±3.91E-10	8.00±0.81E-09	3.52±5.33E-10
<b>Weathered Till</b>						
NDATR	DOWN(1)	0.00±3.22E-10	-1.19±6.45E-09	5.50±3.11E-10	-3.96±5.38E-10	-5.14±1.08E-11
NDATR	DOWN(3)	1.81±0.94E-09	2.35±4.43E-09	1.82±2.52E-10	7.79±4.53E-10	1.13±1.48E-10
909	DOWN(1)	6.21±1.78E-09	4.16±8.18E-09	5.62±3.52E-10	1.04±3.24E-10	0.73±2.96E-10
		<b>U-233/234</b>	<b>U-235/236</b>	<b>U-238</b>	<b>Total U</b> ( $\mu\text{g}/\text{mL}$ )	
<b>Sand and Gravel</b>						
401	UP(1)	2.36±1.35E-10	1.39±6.24E-11	1.25±1.01E-10	2.95±0.06E-04	
406	DOWN(1)	2.67±1.46E-10	1.57±7.04E-11	1.73±1.05E-10	3.25±0.16E-04	
408	DOWN(1)	1.27±0.49E-09	3.11±2.31E-10	4.82±2.96E-10	8.17±0.11E-04	
<b>Weathered Till</b>						
NDATR	DOWN(1)	1.50±0.32E-09	1.09±0.86E-10	1.34±0.30E-09	3.21±0.05E-03	
NDATR	DOWN(3)	1.41±0.31E-09	1.70±1.09E-10	1.37±0.30E-09	3.19±0.03E-03	
909	DOWN(1)	8.20±2.39E-10	4.25±6.35E-11	4.95±1.78E-10	6.85±0.09E-04	

*Sample collection quarter is noted in parentheses next to hydraulic position. Hydraulic position is relative to other wells within the same hydrogeologic unit.*

*Note: Bolding convention applied to these data. (See p. E-2.)*

**Table E-14**  
**Practical Quantitation Limits (PQLs)**

COMPOUND	PQL ( $\mu\text{g/L}$ )	COMPOUND	PQL ( $\mu\text{g/L}$ )
<i>NYCRR Appendix 33 Volatiles</i>		<i>NYCRR Appendix 33 Volatiles</i>	
Acetone	10	Isobutyl alcohol	100
Acetonitrile	100	Methacrylonitrile	5
Acrolein	11	Methyl ethyl ketone	10
Acrylonitrile	5	Methyl iodide	5
Allyl chloride	5	Methyl methacrylate	5
Benzene	5	4-Methyl-2-pentanone	10
Bromodichloromethane	5	Methylene bromide	10
Bromoform	5	Methylene chloride	5
Bromomethane	10	Pentachloroethane	5
Carbon disulfide	10	Propionitrile	50
Carbon tetrachloride	5	Styrene	5
Chlorobenzene	5	1,1,1,2-Tetrachloroethane	5
Chloroethane	10	1,1,2,2-Tetrachloroethane	5
Chloroform	5	Tetrachloroethylene	5
Chloromethane	10	Toluene	5
Chloroprene	5	1,1,1-Trichloroethane	5
1,2-Dibromo-3-chloropropane	5	1,1,2-Trichloroethane	5
Dibromochloromethane	5	1,2,3-Trichloropropane	5
1,2-Dibromoethane	5	Vinyl acetate	10
Dichlorodifluoromethane	5	Vinyl chloride	10
1,1-Dichloroethane	5	Xylene (total)	5
1,2-Dichloroethane	5	cis-1,3-Dichloropropene	5
1,1-Dichloroethylene	5	trans-1,2-Dichloroethylene	5
1,2-Dichloropropane	5	trans-1,3-Dichloropropene	5
Ethyl benzene	5	trans-1,4-Dichloro-2-butene	5
Ethyl methacrylate	5	Trichloroethylene	5
2-Hexanone	10	Trichlorofluoromethane	5
<i>NYCRR Appendix 33 Metals</i>		<i>NYCRR Appendix 33 Metals</i>	
*Aluminum	200	Lead	3
Antimony	10	*Manganese	15
Arsenic	10	Mercury	0.2
Barium	200	Nickel	40
Beryllium	1	Selenium	5
Cadmium	5	Silver	10
Chromium	10	Thallium	10
Cobalt	50	Tin	3,000
Copper	25	Vanadium	50
*Iron	100	Zinc	20

*Note: Specific quantitation limits are highly matrix-dependent and may not always be achievable.*

*\* Not an NYCRR Appendix 33 parameter; sampled for the north plateau early warning program.*

**Table E-14 (continued)**  
**Practical Quantitation Limits (PQLs)**

COMPOUND	PQL ( $\mu\text{g/L}$ )	COMPOUND	PQL ( $\mu\text{g/L}$ )
<i>NYCRR Appendix 33 Semivolatiles</i>		<i>NYCRR Appendix 33 Semivolatiles</i>	
Acenaphthene	10	2,4-Dinitrotoluene	10
Acenaphthylene	10	2,6-Dinitrotoluene	10
Acetophenone	10	Diphenylamine	10
2-Acetylaminofluorene	10	Ethyl methanesulfonate	10
4-Aminobiphenyl	10	Famphur	10
Aniline	10	Fluoranthene	10
Anthracene	10	Fluorene	10
Aramite	10	Hexachlorobenzene	10
Benzo[a]anthracene	10	Hexachlorobutadiene	10
Benzo[a]pyrene	10	Hexachlorocyclopentadiene	10
Benzo[b]fluoranthene	10	Hexachloroethane	10
Benzo[ghi]perylene	10	Hexachlorophene	100
Benzo[k]fluoranthene	10	Hexachloropropene	10
Benzyl alcohol	10	Indeno(1,2,3,-cd)pyrene	10
Bis(2-chlorethyl)ether	10	Isodrin	10
Bis(2-chloroethoxy)methane	10	Isophorone	10
Bis(2-chloroisopropyl)ether	10	Isosafrole	10
Bis(2-ethylhexyl)phthalate	10	Kepone	10
4-Bromophenyl phenyl ether	10	Methapyrilene	10
Butyl benzyl phthalate	10	Methyl methanesulfonate	10
Chlorobenzilate	10	3-Methylcholanthrene	10
2-Chloronaphthalene	10	2-Methylnaphthalene	10
2-Chlorophenol	10	1,4-Naphthoquinone	10
4-Chlorophenyl phenyl ether	10	1-Naphthylamine	10
Chrysene	10	2-Naphthylamine	10
Di-n-butyl phthalate	10	Nitrobenzene	10
Di-n-octyl phthalate	10	5-Nitro-o-toluidine	10
Diallate	10	4-Nitroquinoline 1-oxide	40
Dibenz[a,h]anthracene	10	N-Nitrosodi-n-butylamine	10
Dibenzofuran	10	N-Nitrosodiethylamine	10
3,3-Dichlorobenzidine	10	N-Nitrosodimethylamine	10
2,4-Dichlorophenol	10	N-Nitrosodipropylamine	10
2,6-Dichlorophenol	10	N-Nitrosodiphenylamine	10
Diethyl phthalate	10	N-Nitrosomethylethylamine	10
Dimethoate	10	N-Nitrosomorpholine	10
7, 12-Dimethylbenz[a]anthracene	10	N-Nitrosopiperidine	10
3,3-Dimethylbenzidine	20	N-Nitrosopyrrolidine	10
2,4-Dimethylphenol	10	Naphthalene	10
Dimethyl phthalate	10	0,0,0-Triethyl phosphorothioate	10
4,6-Dinitro-o-cresol	25	0,0-Diethyl 0-2-pyrazinyl- phosphorothioate	10
2,4-Dinitrophenol	25		

*Note: Specific quantitation limits are highly matrix-dependent and may not always be achievable.*

**Table E-14 (concluded)**  
**Practical Quantitation Limits (PQLs)**

COMPOUND	PQL ( $\mu\text{g/L}$ )	COMPOUND	PQL ( $\mu\text{g/L}$ )
<i>NYCRR Appendix 33 Semivolatiles</i>		<i>NYCRR Appendix 33 Semivolatiles</i>	
p-(Dimethylamino)azobenzene	10	2,3,4,6-Tetrachlorophenol	10
p-Chloroaniline	10	Tetraethyl dithiopyrophosphate	10
p-Chloro-m-cresol	10	1,2,4-Trichlorobenzene	10
p-Cresol	10	2,4,5-Trichlorophenol	25
p-Dichlorobenzene	10	2,4,6-Trichlorophenol	10
p-Nitroaniline	25	alpha,alpha-Dimethylphenethylamine	50
p-Nitrophenol	25	m-Cresol	10
p-Phenylenediamine	10	m-Dichlorobenzene	10
Parathion	10	m-Dinitrobenzene	10
Pentachlorobenzene	10	m-Nitroaniline	25
Pentachloronitrobenzene	10	o-Cresol	10
Pentachlorophenol	25	o-Dichlorobenzene	10
Phenacetin	10	o-Nitroaniline	25
Phenanthrene	10	o-Nitrophenol	10
Phenol	10	o-Toluidine	10
Pronamide	10	sym-Trinitrobenzene	10
Pyrene	10	2-Picoline	10
Safrole	10	Pyridine	10
1,2,4,5-Tetrachlorobenzene	10	1,4-Dioxane	10

*Note: Specific quantitation limits are highly matrix-dependent and may not always be achievable.*

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### ***Groundwater Data Graphs***

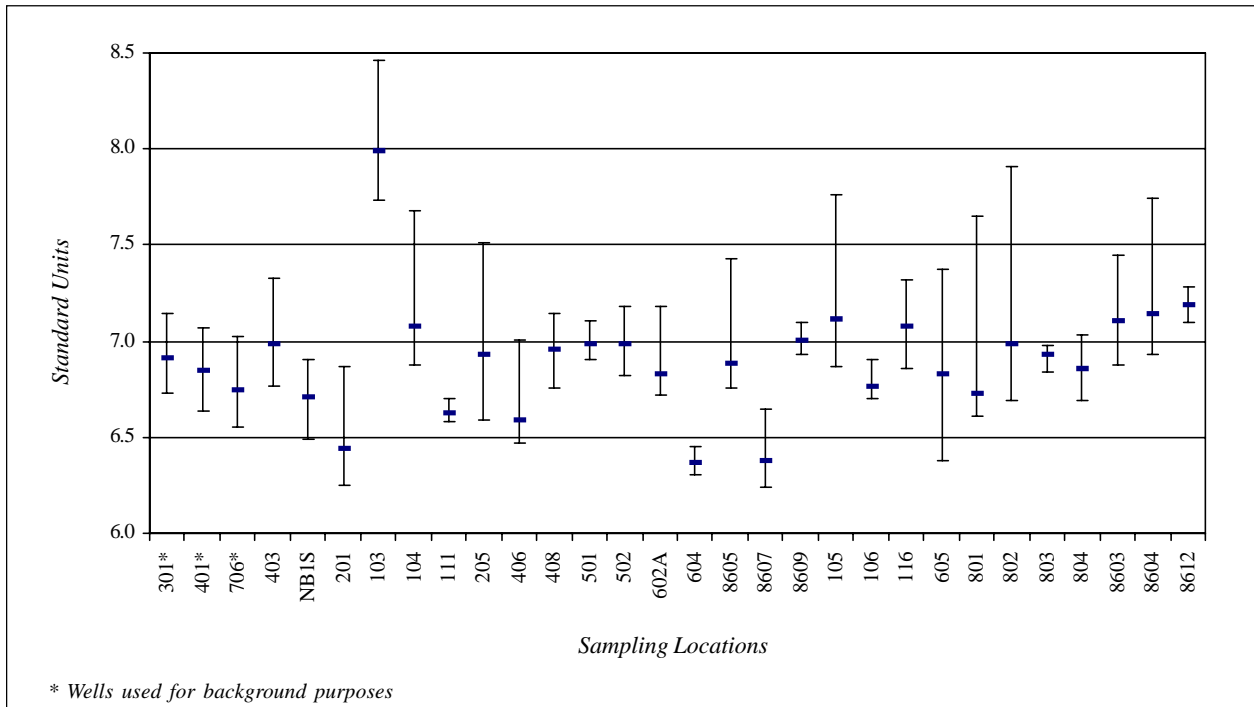
*Groundwater data for CY 2001 are presented in graphic format on the following pages.*

*The data point on the nonradiological graphs represents the average for the year and the bracket represents the high and low values for the year.*

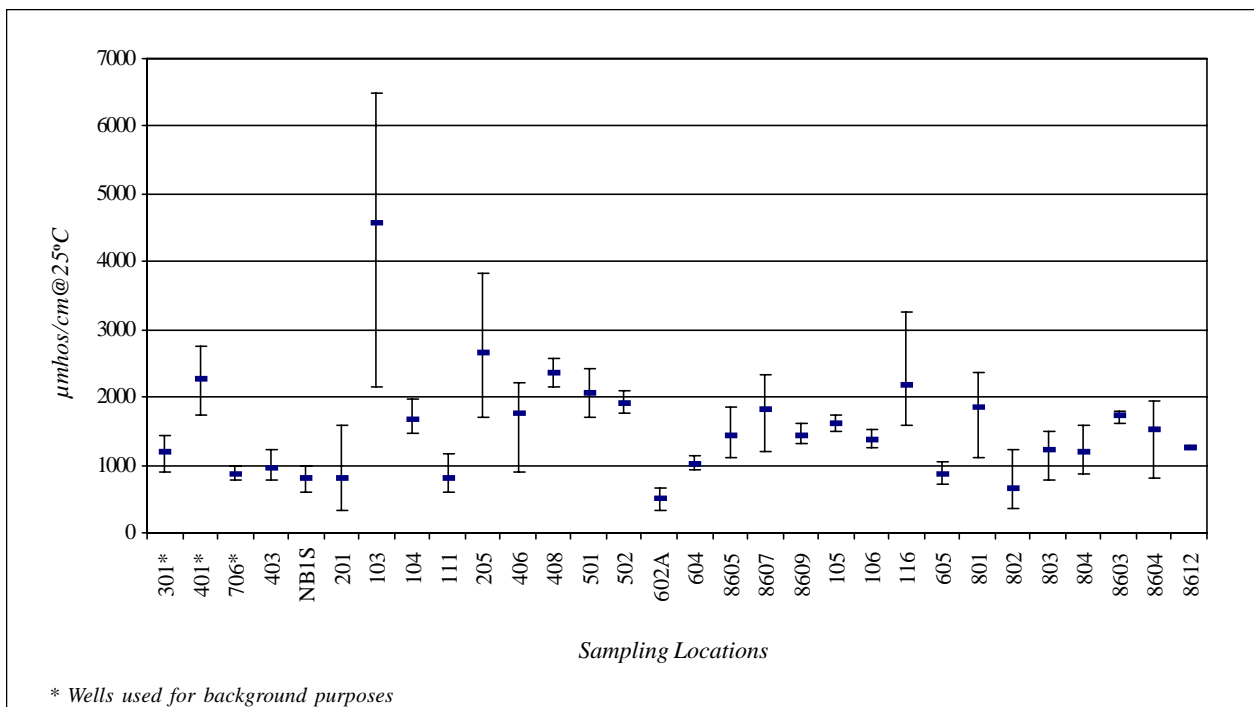
*The graphed data points for the radiological analytes represent the averages for the year and the bracket represents the pooled (i.e., averaged) uncertainty.*

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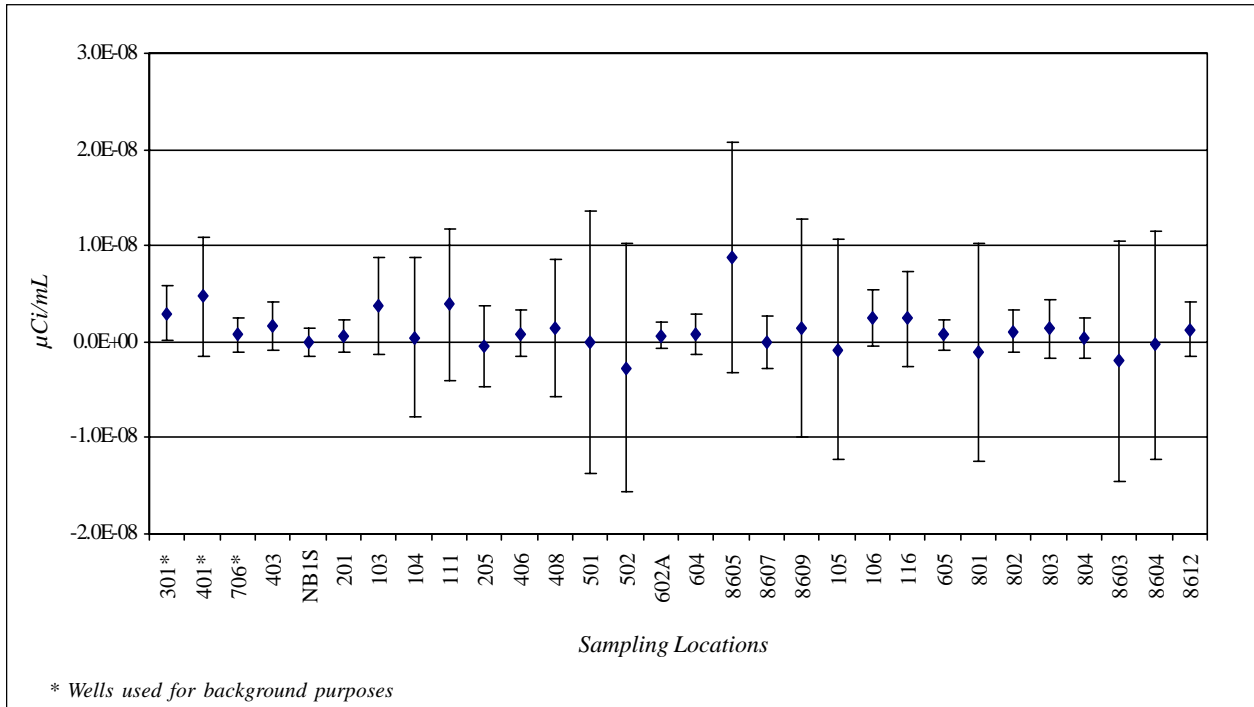


**Figure E-1. pH in Groundwater Samples From the Sand and Gravel Unit**

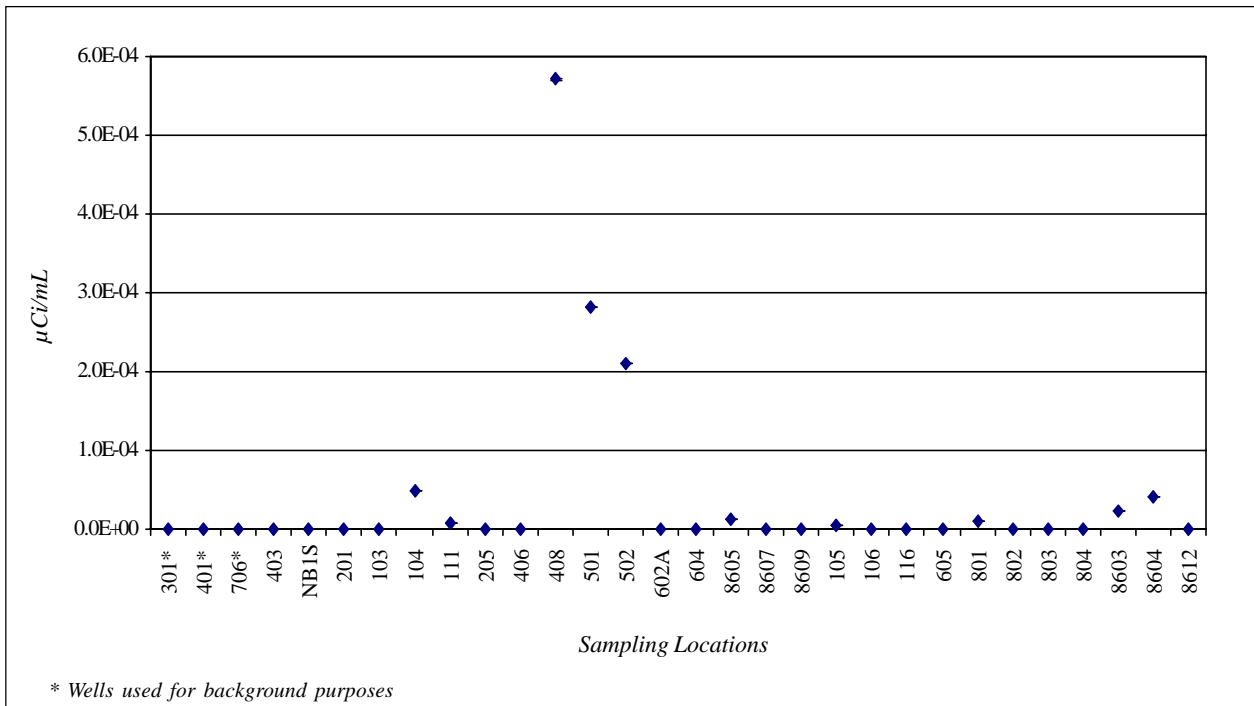


**Figure E-2. Conductivity (µmhos/cm@25°C) of Groundwater Samples From the Sand and Gravel Unit**

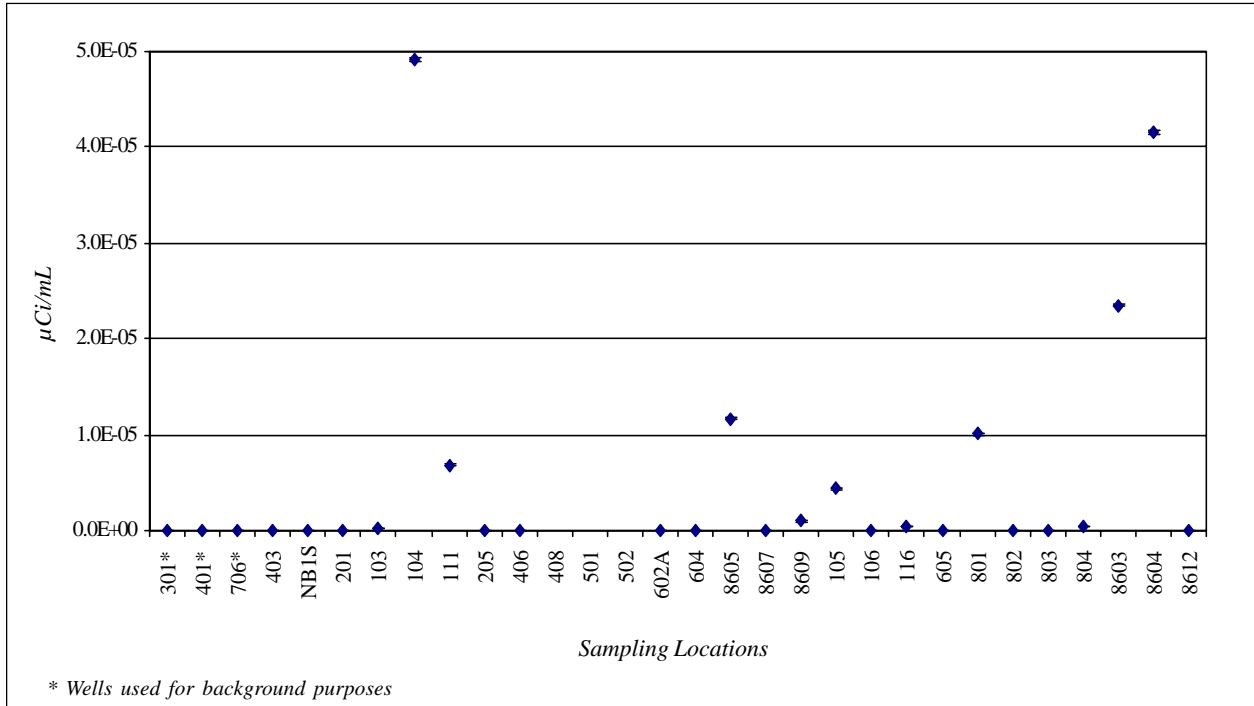




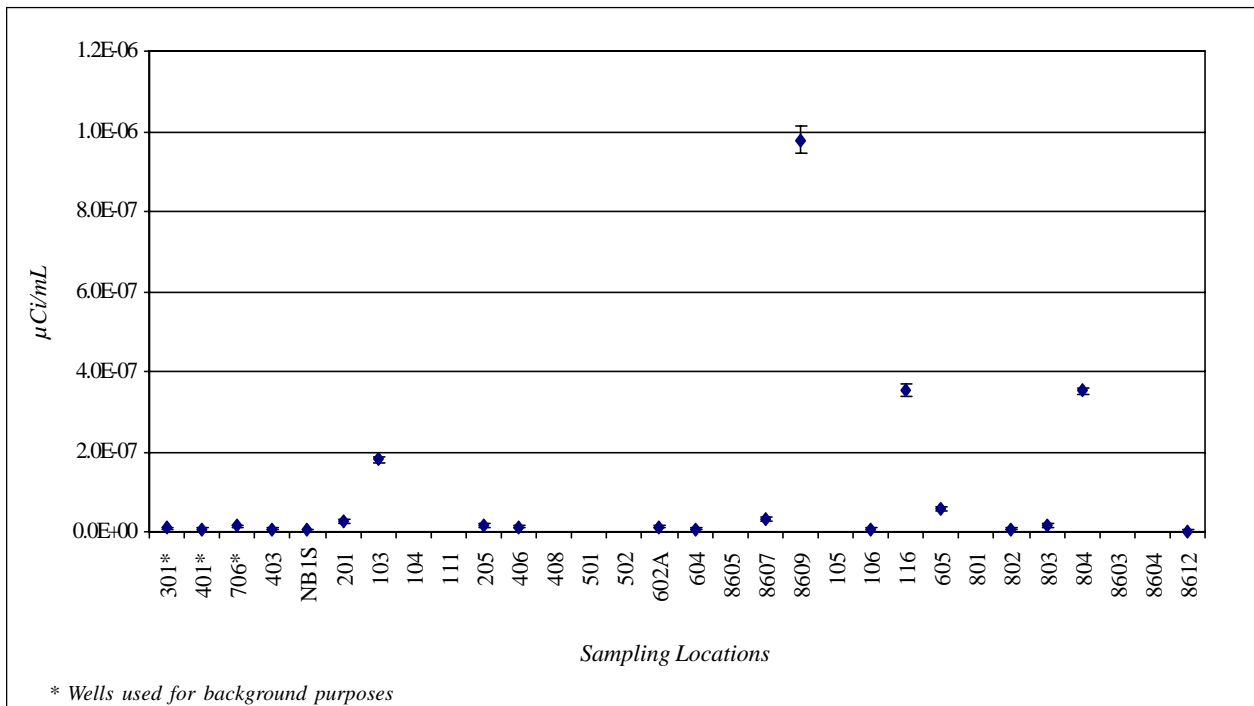
**Figure E-3. Gross Alpha (µCi/mL) in Groundwater Samples From the Sand and Gravel Unit**



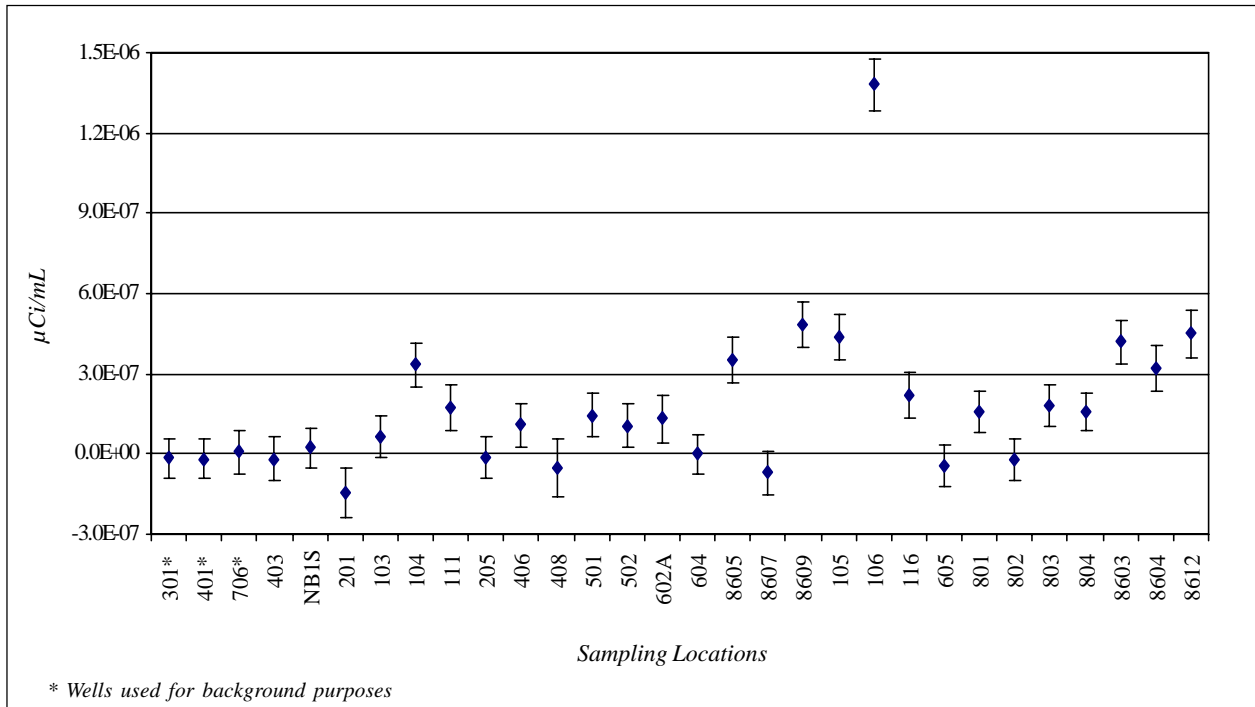
**Figure E-4. Gross Beta (µCi/mL) in Groundwater Samples From the Sand and Gravel Unit**



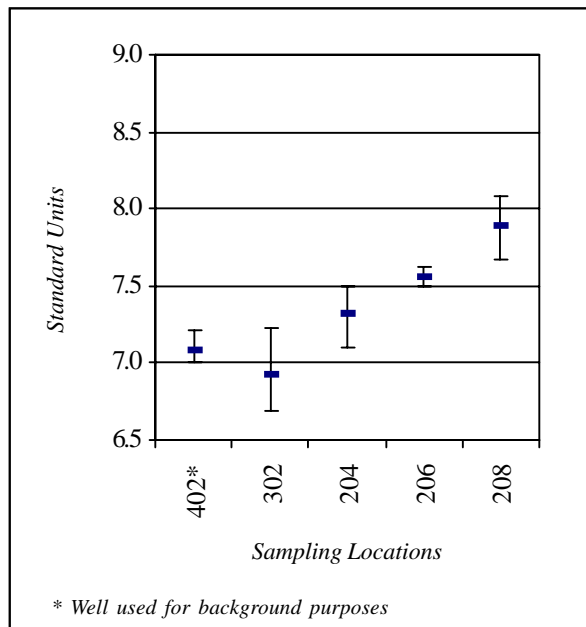
**Figure E-4a. Gross Beta ( $\mu\text{Ci}/\text{mL}$ ) in Groundwater Samples From the Sand and Gravel Unit (Magnified Scale of Figure E-4)**



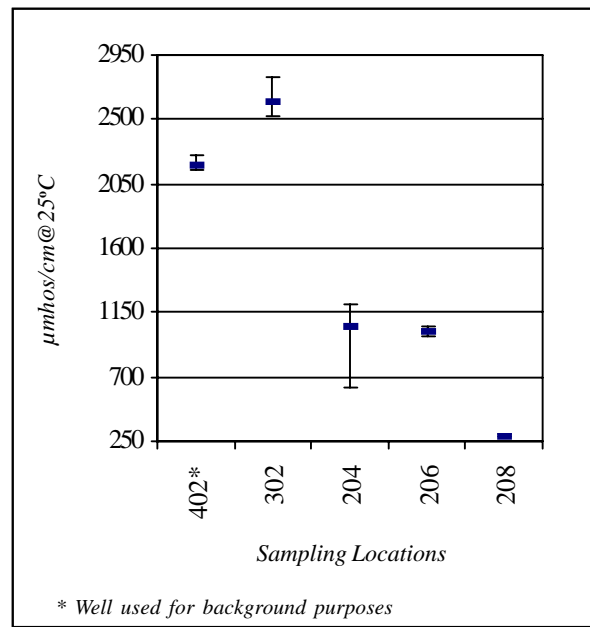
**Figure E-4b. Gross Beta ( $\mu\text{Ci}/\text{mL}$ ) in Groundwater Samples From the Sand and Gravel Unit (Magnified Scale of Figure E-4a)**



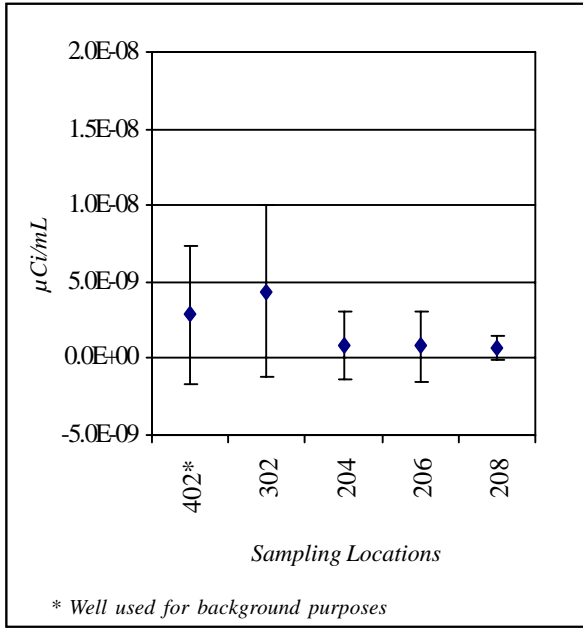
**Figure E-5. Tritium ( $\mu\text{Ci}/\text{mL}$ ) in Groundwater Samples From the Sand and Gravel Unit**



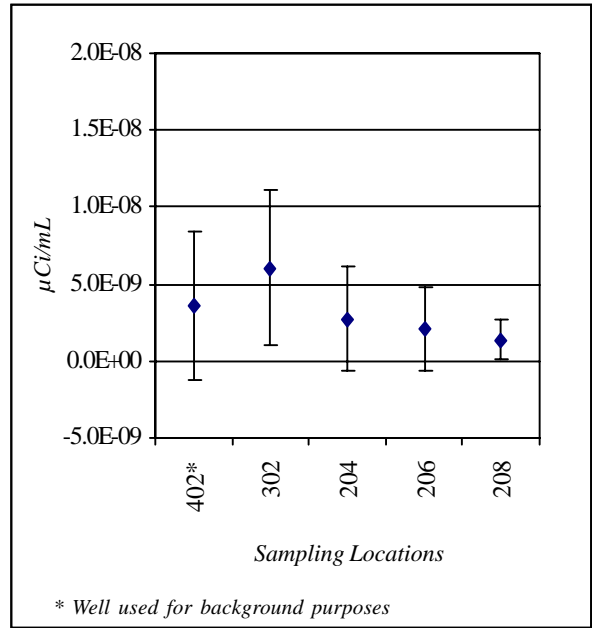
**Figure E-6. pH of Groundwater Samples From the Till-Sand Unit**



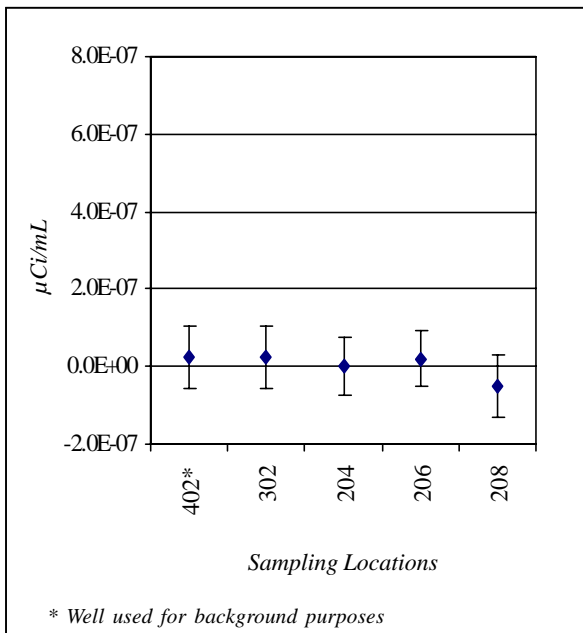
**Figure E-7. Conductivity ( $\mu\text{mhos}/\text{cm}@25^\circ\text{C}$ ) of Groundwater Samples From the Till-Sand Unit**



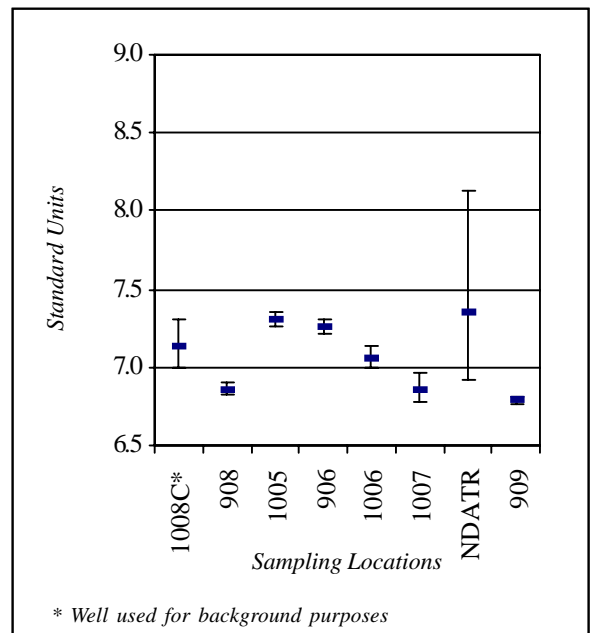
**Figure E-8. Gross Alpha ( $\mu\text{Ci/mL}$ ) in Groundwater Samples From the Till-Sand Unit**



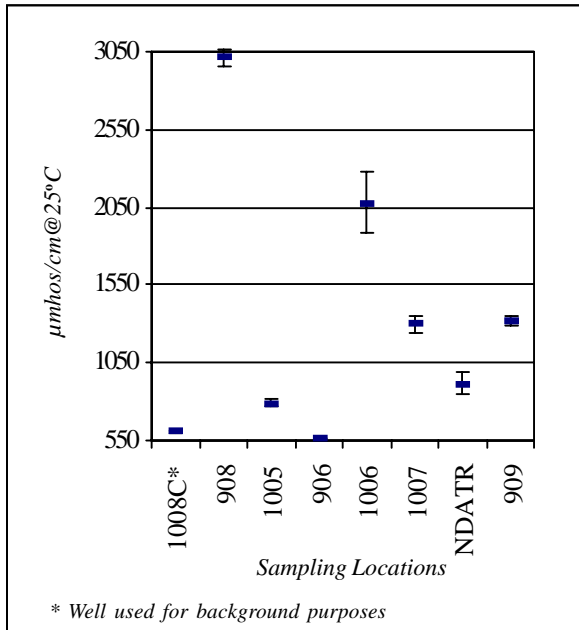
**Figure E-9. Gross Beta ( $\mu\text{Ci/mL}$ ) in Groundwater Samples From the Till-Sand Unit**



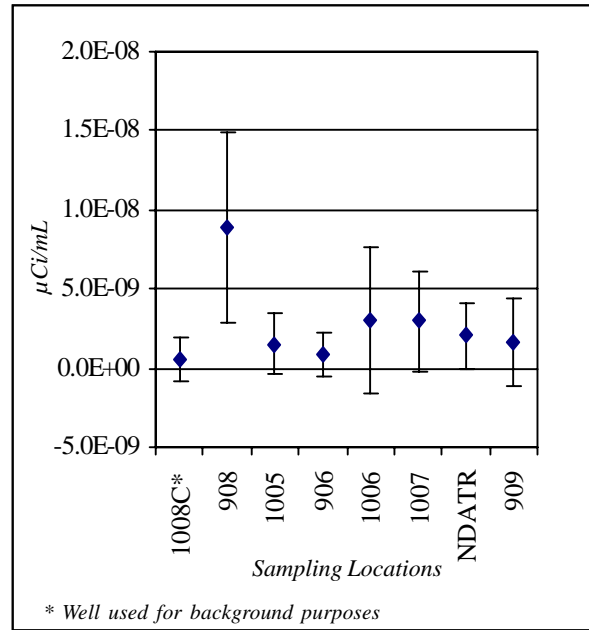
**Figure E-10. Tritium ( $\mu\text{Ci/mL}$ ) in Groundwater Samples From the Till-Sand Unit**



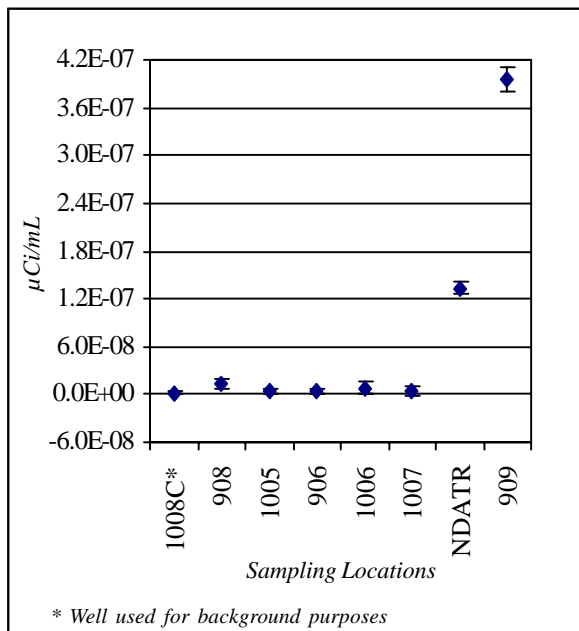
**Figure E-11. pH of Groundwater Samples From the Weathered Lavery Till Unit**



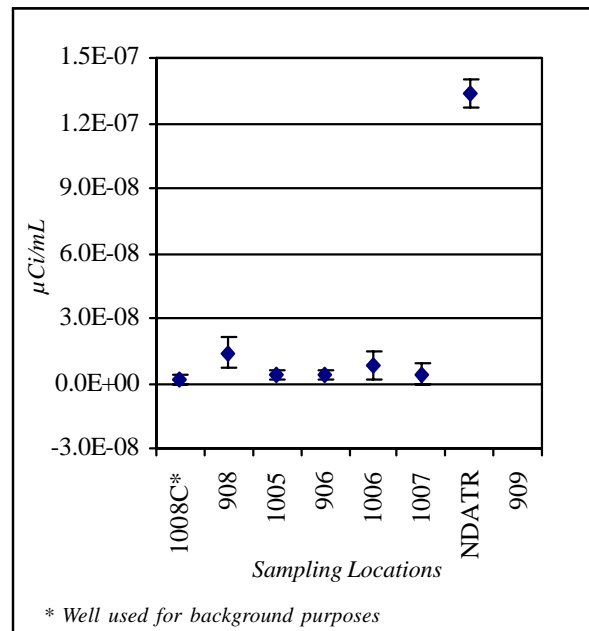
**Figure E-12. Conductivity ( $\mu\text{mhos/cm@}25^\circ\text{C}$ ) of Groundwater Samples From the Weathered Lavery Till Unit**



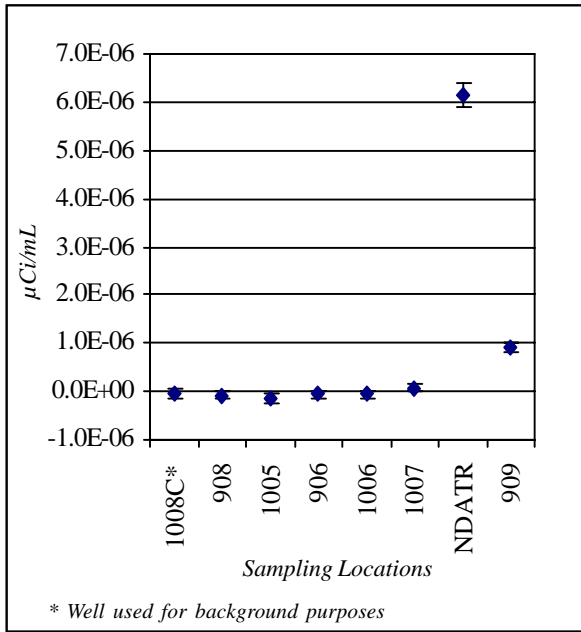
**Figure E-13. Gross Alpha ( $\mu\text{Ci/mL}$ ) in Groundwater Samples From the Weathered Lavery Till Unit**



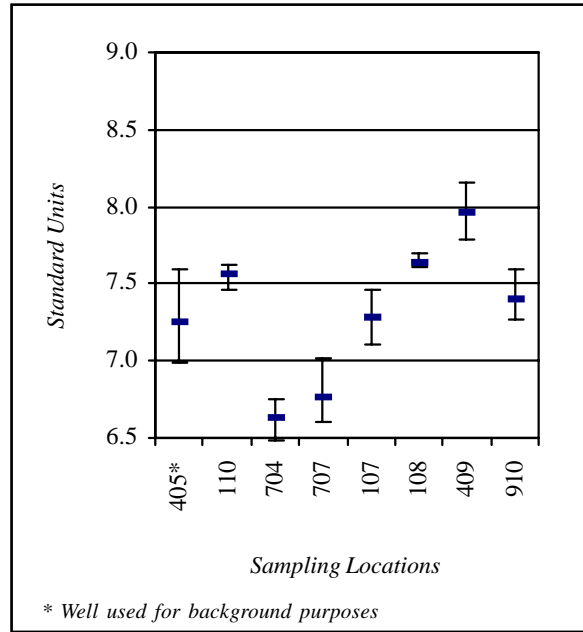
**Figure E-14. Gross Beta ( $\mu\text{Ci/mL}$ ) in Groundwater Samples From the Weathered Lavery Till Unit**



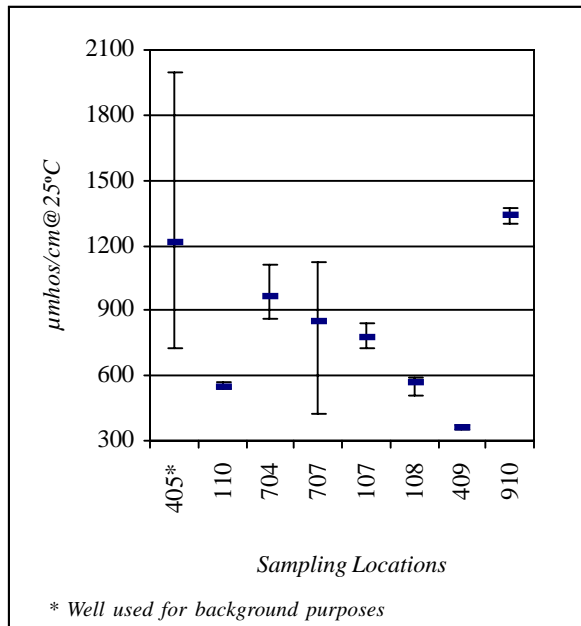
**Figure E-14a. Gross Beta ( $\mu\text{Ci/mL}$ ) in Groundwater Samples From the Weathered Lavery Till Unit (Magnified Scale of Figure E-14)**



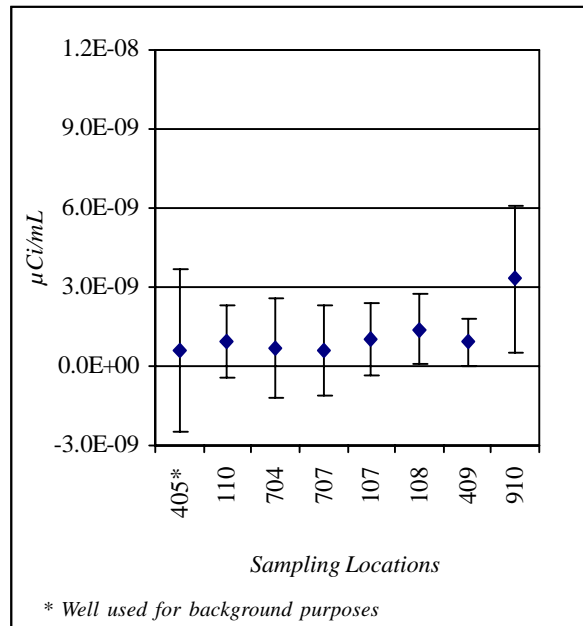
**Figure E-15. Tritium ( $\mu\text{Ci}/\text{mL}$ ) in Groundwater Samples From the Weathered Lavery Till Unit**



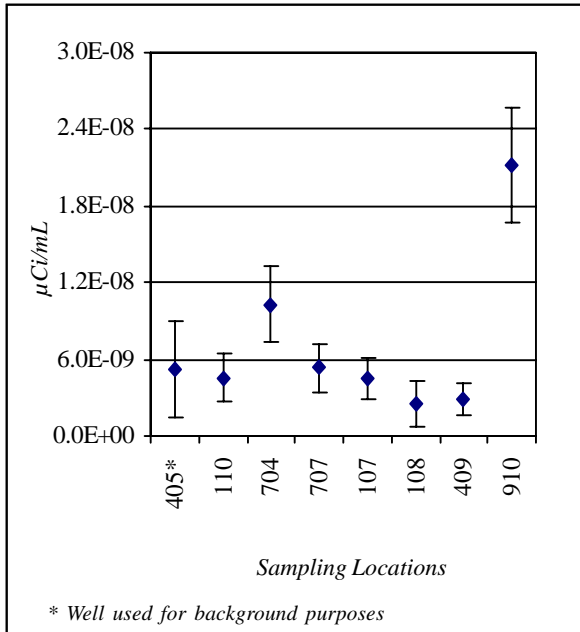
**Figure E-16. pH of Groundwater Samples From the Unweathered Lavery Till Unit**



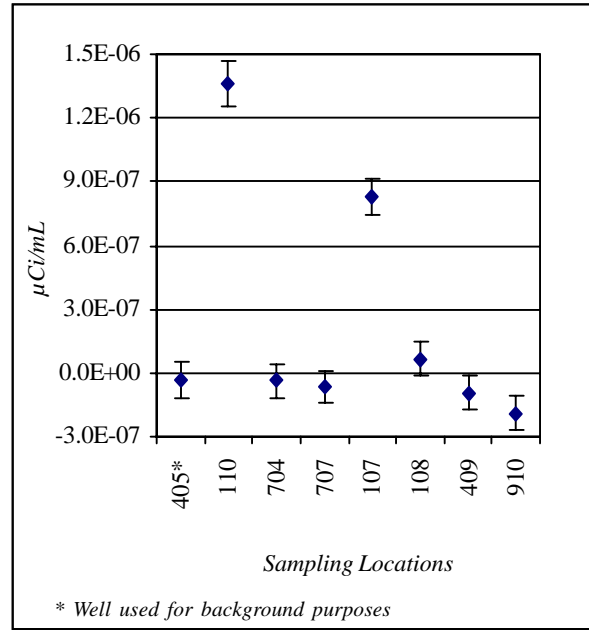
**Figure E-17. Conductivity ( $\mu\text{mhos}/\text{cm}@25^\circ\text{C}$ ) of Groundwater Samples From the Unweathered Lavery Till Unit**



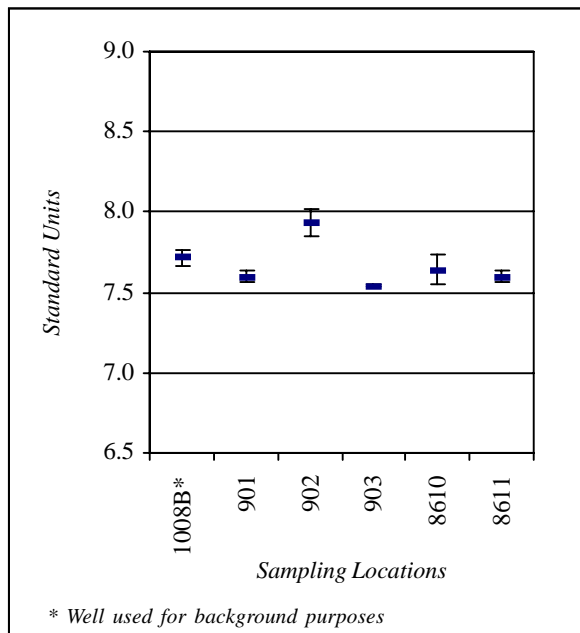
**Figure E-18. Gross Alpha ( $\mu\text{Ci}/\text{mL}$ ) in Groundwater Samples From the Unweathered Lavery Till Unit**



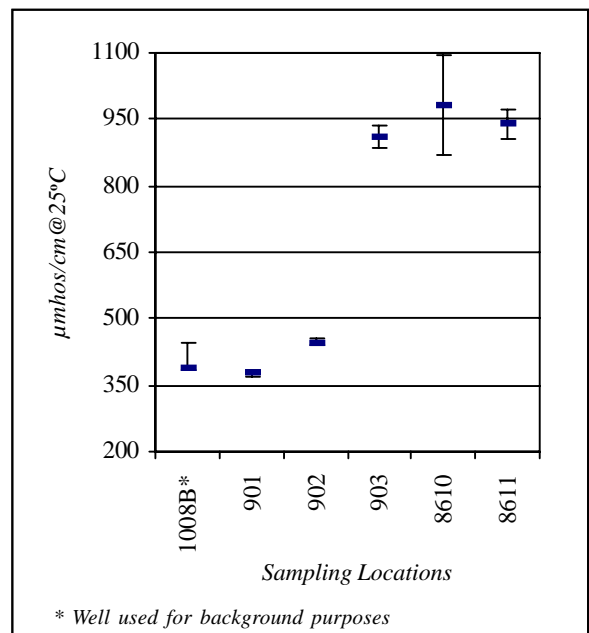
**Figure E-19. Gross Beta ( $\mu\text{Ci}/\text{mL}$ ) in Groundwater Samples From the Unweathered Lavery Till Unit**



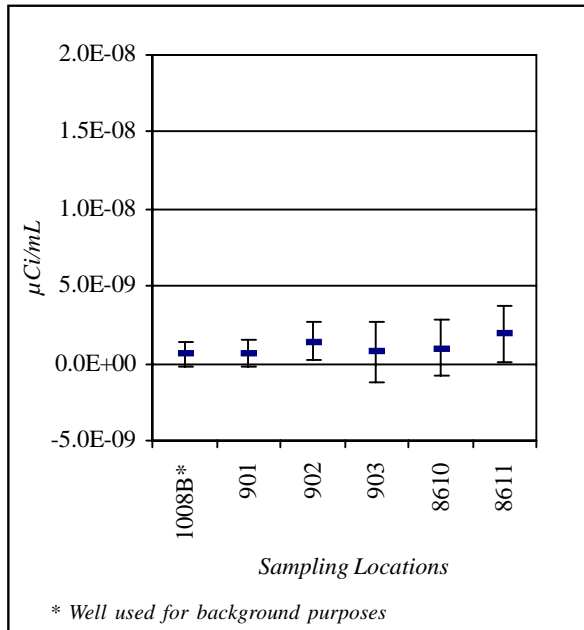
**Figure E-20. Tritium ( $\mu\text{Ci}/\text{mL}$ ) in Groundwater Samples From the Unweathered Lavery Till Unit**



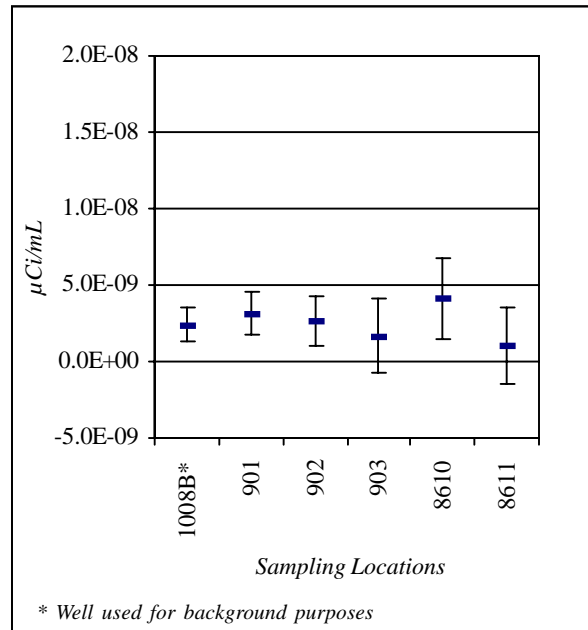
**Figure E-21. pH of Groundwater Samples From the Kent Recessional Sequence**



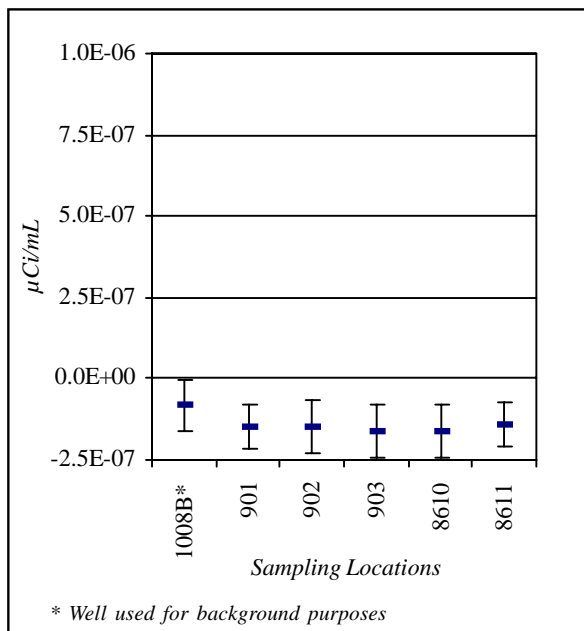
**Figure E-22. Conductivity ( $\mu\text{mhos}/\text{cm}@25^\circ\text{C}$ ) of Groundwater Samples From the Kent Recessional Sequence**



**Figure E-23. Gross Alpha ( $\mu\text{Ci}/\text{mL}$ ) in Groundwater Samples From the Kent Recessional Sequence**



**Figure E-24. Gross Beta ( $\mu\text{Ci}/\text{mL}$ ) in Groundwater Samples From the Kent Recessional Sequence**



**Figure E-25. Tritium ( $\mu\text{Ci}/\text{mL}$ ) in Groundwater Samples From the Kent Recessional Sequence**