Appendix 9.B

DEP Quarterly Sampling Data from the Silverbrook Basin

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	06/07/93	07/02/93	07/02/93	07/02/93	10/08/97	10/28/97
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID						
location		center of pool	center of pool	center of pool	at boat ramp	center of pool
sample depth	0	0	35'	70'	0	0
Laboratory	PETL	PETL	PETL	PETL	in-house	
Field pH	3.2					10.0
Lab pH		3.2	3.6	3.4	6.8	9.4
Temperature [C]						
D.O.						
Tot. Hardness	47.4	47	53.2	69.6		435
Conductivity	205	210	235	275	10.0	34.0
Alkalinity	<1	<1	<1	<1	0.0	<1
Hot Acidity	38.2	37.8	46.0	61.0	0.030	0.113
Iron (T)	0.520	0.400	0.660	1.220		
Iron (D)						0.011
Manganese (T)	0.710	0.720	0.790	0.970		
Manganese (D)						196
Sulfate (T)	55	59	75	79		
Sulfide	<0.02	<0.02	<0.02	<0.02		0.40
Fluoride	<0.2	<0.2	<0.2	<0.2		1.5
Chloride	1.0	6.0	2.0	2.2		4.56
Sodium	1.15	1.15	1.06	1.10		306
Dis. Solids	95	98	110	150		4
Sus. Solids	<1	<1	<1	<1		<0.5
Ammonia N	<0.5	<0.5	<0.5	<0.5		<0.5
Nitrate N	<0.5	<0.5	<0.5	<0.5		34.00
Bicarbonate						0.89
Turbidity	0.27	0.24	0.36	0.40		<10
COD	<10	<10	<10	<10		
TOC						
Silica (T)						
Silica (D)						
Annual Parameters						0.569
Aluminum (T)	3.500	4.200	5.200	9.000		0.478
Aluminum (D)						<0.02
Arsenic (T)	<0.001	<0.001	<0.001	0.002		
Arsenic (D)						0.016
Barium (T)	<0.1	<0.1	<0.1	<0.1		
Barium (D)						<0.005
Cadmium (T)	<0.005	0.001	0.001	0.001		
Cadmium (D)						98.00
Calcium (T)	4.20	3.95	4.15	5.25		
Calcium (D)						0.005
Chromium (T)	<0.05	<0.001	<0.001	<0.001		
Chromium (D)						<0.005
Copper (T)	0.020	0.020	0.020	0.030		
Copper (D)						<0.05
Lead (T)	<0.001	0.0010	0.0020	0.0020		
Lead (D)						3.96
Magnesium (T)	4.50	4.50	5.05	6.50		
Magnesium (D)						<0.0002
Mercury (T)	<0.0002	<0.0002	<0.0002	<0.0002		
Mercury (D)						<0.01
Nickel (T)	<0.04	<0.04	0.040	0.040		
Nickel (D)						<0.01
Selenium (T)	<0.002	<0.002	<0.002	<0.002		
Selenium (D)						<0.005
Silver (T)	<0.01	<0.01	<0.01	<0.01		
Silver (D)						0.008
Zinc (T)	0.220	0.200	0.195	0.240		
Zinc (D)						
Potassium (T)	0.88	1.00	1.02	1.09		
Potassium (D)						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	10/28/97	10/28/97	11/03/97	11/24/97	03/13/98	06/29/98
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID						
location	center of pool	center of pool	at boat ramp	at boat ramp	at boat ramp	at boat ramp
sample depth	35'	70'	0	0	0	0
Laboratory			in-house			PETL
Field pH				9.4	6.2	9.6
Lab pH	9.9	10.0	8.1	8.9	6.2	8.9
Temperature [C]						
D.O.						
Tot. Hardness				450	400	480
Conductivity	455	455		30.0	7.0	42.0
Alkalinity	42.0	47.0	18.0	<1	12.0	<1
Hot Acidity	<1	<1		0.130	0.050	<0.05
Iron (T)	0.173	0.183	0.030			
Iron (D)				0.020	0.400	0.016
Manganese (T)	0.006	0.008	0.040			
Manganese (D)				172	208	228
Sulfate (T)	196	180				
Sulfide				0.41	<2	<1
Fluoride	0.32	0.33		2.0	2.0	2.5
Chloride	2.0	1.5		4.52	4.49	25.00
Sodium	4.91	5.04		307	326	428
Dis. Solids	278	298		3	14	2
Sus. Solids	2	12		<0.2	<0.2	<0.2
Ammonia N	<0.5	<0.5		<0.2	<0.5	<1
Nitrate N	<0.5	<0.5		30.00	7.00	42.00
Bicarbonate	42.00	47.00		2.10	1.80	2.20
Turbidity	0.56	1.90		<10	<10	<10
COD	<10	<10				
TOC						
Silica (T)						
Silica (D)						
Annual Parameters						
Aluminum (T)	0.500	0.863		0.540		0.754
Aluminum (D)		0.491		0.430		0.131
Arsenic (T)	<0.02	0.022		<0.02		<0.005
Arsenic (D)		<0.02				<0.005
Barium (T)	<0.005	<0.005		0.150		0.032
Barium (D)						0.011
Cadmium (T)	<0.005	<0.005		<0.005		<0.002
Cadmium (D)						<0.002
Calcium (T)	140.00	138.00		68.90		101.00
Calcium (D)		130.00				48.20
Chromium (T)	0.008	0.010		0.007		0.020
Chromium (D)		0.005				<0.002
Copper (T)	<0.005	<0.005		<0.005		0.058
Copper (D)						0.002
Lead (T)	<0.05	<0.05		<0.05		<0.005
Lead (D)						<0.005
Magnesium (T)	4.68	4.69		3.94		10.80
Magnesium (D)	4.61	4.59				1.64
Mercury (T)	<0.0002	<0.0002		<0.002		<0.0002
Mercury (D)						<0.0002
Nickel (T)	<0.01	<0.01		<0.01		0.007
Nickel (D)						<0.005
Selenium (T)	0.0100	0.0150		0.0200		0.0160
Selenium (D)						<0.005
Silver (T)	0.005	0.007		<0.005		<0.005
Silver (D)		<0.005				<0.005
Zinc (T)	0.087	0.070		0.016		0.124
Zinc (D)				<0.005		0.019
Potassium (T)						
Potassium (D)						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	07/09/98	07/09/98	07/09/98	07/09/98	07/09/98	07/09/98
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	511	510	509	506	507	502
location	east of rise (4)	east of rise (4)	east of rise (4)	west end (3)	west end (3)	near ash face (2)
sample depth	20'	40'	70'	30'	40'	20'
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP
Field pH						
Lab pH	10.9	11.3	11.4	11.0	11.1	11.2
Temperature [C]						
D.O.						
Tot. Hardness						
Conductivity	800		1026	847	942	900
Alkalinity	92.0	148.0	168.0	106.0	122.0	120.0
Hot Acidity	0.0	0.0	0.0	0.0	0.0	0.0
Iron (T)	0.071		0.055	<0.020	<0.020	
Iron (D)						
Manganese (T)	<0.010		<0.010	<0.010	<0.010	
Manganese (D)			<0.010	<0.010	<0.010	
Sulfate (T)	196		202	212	184	
Sulfide						
Fluoride	0.78		0.95	0.82	0.84	
Chloride	2.0	2.0	2.0	2.0	2.0	2.0
Sodium	8.12	7.40	8.49	7.08	7.83	
Dis. Solids	510		646	542	590	566
Sus. Solids	<2		6	<2	<2	2
Ammonia N	0.02	0.04	0.04	0.03	0.03	0.03
Nitrate N	0.09		0.08	0.09	0.09	0.09
Bicarbonate						
Turbidity	1.86	2.00	3.40	1.50	1.06	1.08
COD						
TOC						
Silica (T)						
Silica (D)						
Annual Parameters						
Aluminum (T)	1.070		1.190	0.952	1.100	
Aluminum (D)			1.110	0.952	1.030	
Arsenic (T)	0.008		0.013	0.006	0.011	0.007
Arsenic (D)			0.013	0.006	0.011	0.007
Barium (T)	0.016	<0.010	<0.010	<0.010	<0.010	
Barium (D)		<0.010	<0.010	<0.010	<0.010	
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	
Cadmium (D)		<0.010	<0.010	<0.010	<0.010	
Calcium (T)	152.00	141.00	173.00	135.00	172.00	
Calcium (D)		135.00	173.00	135.00	157.00	
Chromium (T)	<0.050	<0.050	<0.050	<0.050	<0.050	
Chromium (D)		<0.050	<0.050	<0.050	<0.050	
Copper (T)	0.062	<0.010	<0.010	**0.018**	<0.010	
Copper (D)			<0.010	**<0.010**	<0.010	
Lead (T)	0.0046		0.0019	**0.0021**	<0.001	0.0094
Lead (D)			0.0017	**0.0014**	<0.001	0.0014
Magnesium (T)	0.63	0.53	0.31	0.63	0.39	
Magnesium (D)		0.53	0.30	0.63	0.38	
Mercury (T)	<0.001		<0.001	<0.001	<0.001	<0.001
Mercury (D)			<0.001	<0.001	<0.001	<0.001
Nickel (T)	<0.050		<0.050	<0.050	<0.050	
Nickel (D)			<0.050	<0.050	<0.050	
Selenium (T)	0.0341		0.0463	0.0306	0.0421	0.0322
Selenium (D)			0.0448	0.0306	0.0419	0.0305
Silver (T)						
Silver (D)						
Zinc (T)	0.037		<0.010	<0.010	<0.010	
Zinc (D)			<0.010	<0.010	<0.010	
Potassium (T)						
Potassium (D)						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	07/09/98	07/09/98	07/09/98	07/09/98	08/12/98	08/12/98
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	504	505	500	501	519	518
location	near ash face (2)	near ash face (2)	at ash face (1)	at ash face (1)	east of rise (4)	east of rise (4)
sample depth	60'	70'	20'	30'	20'	40'
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP
Field pH						
Lab pH	10.8	11.3	11.1	11.1	11.4	11.6
Temperature [C]						
D.O.						
Tot. Hardness						
Conductivity	721	1004	862	815	1273	1620
Alkalinity	80.0	142.0	108.0	108.0	172.0	244.0
Hot Acidity	0.0	0.0	0.0	0.0	0.0	0.0
Iron (T)	<0.020	0.023	0.074	0.061	<0.020	0.067
Iron (D)						
Manganese (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Manganese (D)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Sulfate (T)	262	107	223	195	369	393
Sulfide						
Fluoride	0.77	0.89	0.83	0.83	1.15	1.15
Chloride	2.0	2.0	2.0	2.0	3.0	3.0
Sodium	7.40	7.85	7.23	<0.2	9.87	10.30
Dis. Solids	494	618	572	536	311	679
Sus. Solids	2	8	<2	<2	<2	8
Ammonia N	0.02	0.04	0.03	0.03	0.06	0.06
Nitrate N	0.10	0.08	0.17	0.10	0.09	0.08
Bicarbonate						
Turbidity	1.34	3.20	1.09	1.55	1.60	3.00
COD						
TOC					19.11	19.52
Silica (T)						
Silica (D)						
Annual Parameters						
Aluminum (T)	1.020	1.160	1.040	1.400	1.320	1.440
Aluminum (D)	0.963	1.050	0.984	1.070	1.320	1.350
Arsenic (T)	0.007	0.010	0.005	**0.009**	<0.004	<0.004
Arsenic (D)	0.007	0.010	0.005	**0.006**	<0.004	<0.004
Barium (T)	0.012	0.014	0.013	0.013	0.013	0.015
Barium (D)	0.012	0.013	0.012	0.013	0.013	0.014
Cadmium (T)	<0.010	<0.010	<0.01	<0.01	<0.010	<0.010
Cadmium (D)	<0.010	<0.010	<0.01	<0.01	<0.010	<0.010
Calcium (T)	169.00	169.00	139.00	182.00	196.00	212.00
Calcium (D)	169.00	168.00	139.00	182.00	195.00	212.00
Chromium (T)	<0.050	<0.050	<0.05	<0.05	0.051	0.055
Chromium (D)	<0.050	<0.050	<0.05	<0.05	0.051	0.055
Copper (T)	0.071	<0.010	0.132	0.020	0.018	0.021
Copper (D)	<0.010	<0.010	0.014	<0.010	0.012	<0.010
Lead (T)	0.0018	0.0014	0.0175	0.0019	<0.001	<0.001
Lead (D)	0.0012	0.0010	0.0019	0.0016	<0.001	<0.001
Magnesium (T)	0.63	0.40	0.78	0.60	0.19	0.17
Magnesium (D)	0.62	0.39	0.71	0.40	0.19	0.17
Mercury (T)	<0.001	<0.001	<0.001	<0.001	0.002	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
Nickel (T)	<0.050	<0.050	<0.05	<0.050	<0.050	<0.050
Nickel (D)	<0.050	<0.050	<0.05	<0.050	<0.050	<0.050
Selenium (T)	0.0327	0.0395	0.0284	**0.0376**	<0.007	<0.007
Selenium (D)	0.0327	0.0395	0.0284	**0.0323**	<0.007	<0.007
Silver (T)						
Silver (D)						
Zinc (T)	0.039	<0.010	0.087	0.024	<0.010	<0.010
Zinc (D)	0.011	<0.010	0.017	0.010	<0.010	<0.010
Potassium (T)					10.40	11.60
Potassium (D)						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	08/12/98	08/12/98	08/12/98	08/12/98	08/12/98	08/12/98
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	516	515	514	512	513	517
location	east of rise (4)	west end (3)	west end (3)	at ash face (1)	at ash face (1)	at ash face (1)
sample depth	60'	40'	30'	20'	30'	40'
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP
Field pH						
Lab pH	11.5	11.5	11.6	11.5	11.5	11.4
Temperature [C]						
D.O.						
Tot. Hardness						
Conductivity	1458	1366	1577	1379	1381	1355
Alkalinity	214.0	192.0	238.0	196.0	200.0	192.0
Hot Acidity	0.0	0.0	0.0	0.0	0.0	0.0
Iron (T)	0.199	<0.020	<0.020	0.074	0.039	0.111
Iron (D)		<0.020				
Manganese (T)	<0.010	0.014	0.013	0.012	0.013	<0.010
Manganese (D)	<0.010	0.014	0.012	0.012	0.013	<0.010
Sulfate (T)	400	358	354	329	336	307
Sulfide						
Fluoride	1.12	1.19	1.18	1.13	1.18	1.10
Chloride	3.0	3.0	3.0	3.0	3.0	3.0
Sodium	11.60	10.80	11.30	10.60	10.80	10.70
Dis. Solids	782	706	861	762	822	775
Sus. Solids	10	40	12	<2	<2	8
Ammonia N	0.06	0.05	0.05	0.04	0.05	0.06
Nitrate N	0.09	0.09	0.09	0.11	0.10	0.09
Bicarbonate						
Turbidity	8.10	2.50	1.30	3.30	4.10	3.90
COD						
TOC						
Silica (T)						
Silica (D)						
Annual Parameters						
Aluminum (T)	2.180	1.490	1.460	1.640	1.510	1.720
Aluminum (D)	2.080	1.470	1.430	1.500	1.480	1.720
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium (T)	0.024	0.017	0.019	0.018	0.018	0.018
Barium (D)	0.024	0.017	0.018	0.016	0.017	0.018
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (D)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Calcium (T)	237.00	206.00	234.00	202.00	215.00	219.00
Calcium (D)	229.00	204.00	232.00	202.00	215.00	219.00
Chromium (T)	0.062	0.053	0.057	0.056	0.057	0.057
Chromium (D)	0.060	0.053	0.057	0.056	0.051	0.057
Copper (T)	0.037	0.024	0.053	0.017	0.021	0.019
Copper (D)	0.029	<0.010	0.026	<0.010	0.021	0.011
Lead (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lead (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium (T)	**0.26**	0.18	0.14	0.20	0.17	0.21
Magnesium (D)	**0.21**	0.18	0.14	0.19	0.17	0.21
Mercury (T)	<0.001	<0.001	0.003	0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001	0.002	0.001	<0.001	<0.001
Nickel (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (D)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Selenium (T)	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Selenium (D)	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Silver (T)						
Silver (D)						
Zinc (T)	**0.045**	0.018	0.041	0.011	0.014	0.016
Zinc (D)	**0.019**	0.010	0.011	0.011	0.011	0.016
Potassium (T)						
Potassium (D)						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	09/15/98	09/15/98	09/15/98	09/15/98	09/15/98	09/15/98
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	526	533	534	529	527	528
location		west end (3)	west end (3)	near ash face (2)	near ash face (2)	near ash face (2)
sample depth		30'	40'	60'	20'	40'
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP
Field pH	11.5	11.5	11.5	11.5	11.5	11.5
Lab pH						
Temperature [C]						
D.O.						
Tot. Hardness	1763	1781	1851	1817	1781	1728
Conductivity	272.0	256.0	272.0	282.0	274.0	258.0
Alkalinity	0.0	0.0	0.0	0.0	0.0	0.0
Hot Acidity	0.062	0.038	0.138	0.135	0.098	0.040
Iron (T)						
Iron (D)	<0.010	0.022	**0.024**	0.022	0.021	0.018
Manganese (T)		0.012	**<0.010**	0.020	0.019	0.018
Manganese (D)	415	410	401	389	395	383
Sulfate (T)						
Sulfide	1.35	1.35	1.37	1.40	1.40	1.36
Fluoride	4.0	3.0	4.0	5.0	4.0	4.0
Chloride	14.80	12.50	12.40	11.80	11.80	11.70
Sodium	892	988	962	999	1009	928
Dis. Solids	<2	<2	12	80	<2	<2
Sus. Solids	0.06	0.07	0.07	0.07	0.06	0.06
Ammonia N	0.08	0.10	0.09	0.09	0.08	0.08
Nitrate N						
Bicarbonate	5.50	1.78	1.69	77.00	1.67	1.29
Turbidity						
COD						
TOC	20.99	20.46	20.91	22.04	20.24	19.65
Silica (T)						
Silica (D)						
Annual Parameters						
Aluminum (T)	1.470	1.400	1.560	1.710	1.410	1.290
Aluminum (D)		1.400	1.410	1.340	1.250	1.240
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)		<0.004	<0.004	<0.004	<0.004	<0.004
Barium (T)	0.023	0.021	0.022	0.024	0.023	0.020
Barium (D)		0.020	0.019	0.020	0.019	0.019
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (D)		<0.010	<0.010	<0.010	<0.010	<0.010
Calcium (T)	286.50	266.00	265.00	258.00	252.00	252.00
Calcium (D)		261.00	257.00	256.00	244.00	251.00
Chromium (T)	0.070	0.068	0.073	0.072	0.067	0.066
Chromium (D)		0.066	0.067	0.068	0.065	0.065
Copper (T)	0.046	0.029	0.030	0.020	0.030	0.022
Copper (D)		<0.010	<0.010	<0.010	<0.010	<0.010
Lead (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lead (D)		<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium (T)	0.11	0.11	**0.24**	0.17	0.10	0.08
Magnesium (D)		0.11	**0.10**	0.09	0.09	0.08
Mercury (T)	0.003	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (D)		<0.050	<0.050	<0.050	<0.050	<0.050
Selenium (T)	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Selenium (D)		<0.007	<0.007	<0.007	<0.007	<0.007
Silver (T)						
Silver (D)						
Zinc (T)	0.029	0.021	0.020	0.016	0.019	0.014
Zinc (D)		0.010	0.020	0.014	0.014	<0.010
Potassium (T)	15.10	12.70	13.70	14.00	13.70	12.70
Potassium (D)						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	09/15/98	09/15/98	09/15/98	10/14/98	10/14/98	10/14/98
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	531	532	530	539	540	541
location	east of rise (4)	east of rise (4)	east of rise (4)	west end (3)	west end (3)	at ash face (1)
sample depth	40'	60'	20'	20'	40'	20'
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP
Field pH						
Lab pH	11.5	11.5	11.4	11.7	11.7	11.7
Temperature [C]						
D.O.						
Tot. Hardness	1782	1755	1731	2040	2040	2060
Conductivity	258.0	250.0	252.0	328.0	320.0	326.0
Alkalinity	0.0	0.0	0.0	0.0	0.0	0.0
Hot Acidity	0.322	1.880	<0.020	0.056	0.057	0.058
Iron (T)						
Iron (D)	0.025	0.027	0.022	<0.010	0.010	0.010
Manganese (T)	0.017	0.021	0.022	<0.010	<0.010	0.010
Manganese (D)	388	406	396	852	455	418
Sulfate (T)						
Sulfide	1.34	1.32	1.33	1.52	1.56	1.57
Fluoride	4.0	4.0	4.0	4.0	5.0	4.0
Chloride	12.50	13.20	12.60	15.60	15.40	16.20
Sodium	1064	1004	902	1129	1085	1037
Dis. Solids	<2	<2	<2	16	8	14
Sus. Solids	0.05	0.05	0.05	0.06	0.07	0.07
Ammonia N	0.09	0.09	0.08	0.11	0.10	0.10
Nitrate N						
Bicarbonate						
Turbidity	3.30	1.95	2.10	13.90	11.20	19.70
COD						
TOC	21.23	38.95	20.89	18.32	18.53	18.85
Silica (T)						
Silica (D)						
Annual Parameters						
Aluminum (T)	1.740	7.820	1.360	0.899	0.923	1.020
Aluminum (D)	1.310	1.340	1.260	0.835	0.877	0.807
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium (T)	0.023	0.071	0.020	0.023	0.023	0.023
Barium (D)	0.020	0.019	0.019	0.022	0.023	0.021
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (D)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Calcium (T)	275.00	277.00	262.00	294.00	285.00	312.00
Calcium (D)	275.00	263.00	248.00	293.00	285.00	305.00
Chromium (T)	0.070	0.073	0.076	0.081	0.085	0.086
Chromium (D)	0.070	0.065	0.066	0.079	0.085	0.081
Copper (T)	0.026	0.018	0.015	0.028	0.016	0.019
Copper (D)	<0.010	<0.010	<0.010	0.011	0.013	<0.010
Lead (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lead (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium (T)	0.15	0.68	0.09	0.09	0.09	0.10
Magnesium (D)	0.09	0.09	0.09	0.08	0.09	0.08
Mercury (T)	<0.001	<0.001	<0.001	0.002	<0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	0.002	<0.001	<0.001
Nickel (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (D)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Selenium (T)	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Selenium (D)	<0.007	<0.070	<0.007	<0.007	<0.007	<0.007
Silver (T)						
Silver (D)						
Zinc (T)	0.018	0.017	0.014	0.031	0.013	0.016
Zinc (D)	0.011	<0.010	<0.010	0.019	0.012	0.010
Potassium (T)	13.60	12.50	13.80	16.00	15.90	15.90
Potassium (D)						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	10/14/98	10/14/98	10/14/98	10/14/98	10/14/98	10/14/98
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	542	543	544	545	546	547
location	at ash face (1)	near ash face (2)	near ash face (2)	near ash face (2)	east of rise (4)	east of rise (4)
sample depth	40'	20'	40'	60'	20'	40'
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP
Field pH						
Lab pH	11.7	11.7	11.7	11.7	11.7	11.7
Temperature [C]						
D.O.						
Tot. Hardness	2050	2070	2060	2080	2050	2050
Conductivity	324.0	320.0	318.0	314.0	312.0	306.0
Alkalinity	0.0	0.0	0.0	0.0	0.0	0.0
Hot Acidity	0.042	0.043	0.036	0.077	0.038	0.055
Iron (T)						
Iron (D)	0.011	0.023	0.011	0.012	0.013	0.012
Manganese (T)	0.011	0.023	0.011	0.011	0.013	0.010
Manganese (D)	388	344	402	373	371	327
Sulfate (T)						
Sulfide	1.56	1.57	1.57	1.57	1.55	1.54
Fluoride	5.0	4.0	4.0	4.0	4.0	4.0
Chloride	15.70	15.70	15.30	16.00	15.70	16.20
Sodium	1073	1154	1091	1085	1089	1078
Dis. Solids	18	20	20	20	22	20
Sus. Solids	0.07	0.07	0.07	0.07	0.07	0.08
Ammonia N	0.10	0.10	0.10	0.10	0.10	0.10
Nitrate N						
Bicarbonate	11.20	9.70	16.70	23.00	16.80	16.80
Turbidity						
COD						
TOC	18.92	18.49	17.12	18.32	18.43	18.45
Silica (T)						
Silica (D)						
Annual Parameters						
Aluminum (T)	1.110	0.927	0.873	1.040	0.904	0.992
Aluminum (D)	1.080	0.927	0.795	0.849	0.848	0.813
Arsenic (T)	<0.004	0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium (T)	0.024	0.022	0.021	0.023	0.023	0.022
Barium (D)	0.024	0.022	0.020	0.022	0.022	0.021
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (D)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Calcium (T)	309.00	301.00	292.00	311.00	317.00	315.00
Calcium (D)	308.00	298.00	292.00	311.00	313.00	296.00
Chromium (T)	0.085	0.082	0.079	0.082	0.085	0.084
Chromium (D)	0.078	0.082	0.079	0.082	0.082	0.081
Copper (T)	0.025	**0.036**	0.028	0.021	0.028	0.034
Copper (D)	0.023	**0.010**	0.013	0.017	<0.010	<0.010
Lead (T)	<0.001	**0.0028**	0.0027	0.0024	0.0022	0.0027
Lead (D)	<0.001	**0.0013**	0.0019	0.0018	0.0015	0.0017
Magnesium (T)	0.11	**0.12**	0.09	0.10	0.09	0.10
Magnesium (D)	0.11	**0.10**	0.08	0.08	0.08	0.10
Mercury (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (D)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Selenium (T)	<0.007	0.0532	**0.0528**	0.0532	**0.0527**	0.0531
Selenium (D)	<0.007	0.0518	**0.0513**	0.0520	**0.0522**	0.0509
Silver (T)						
Silver (D)						
Zinc (T)	0.023	**0.045**	0.023	0.019	0.023	0.022
Zinc (D)	0.018	**0.022**	0.018	0.019	0.019	0.014
Potassium (T)	15.90	16.10	15.30	15.90	16.00	16.30
Potassium (D)						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	10/14/98	11/24/98	11/24/98	11/24/98	11/24/98	02/01/99
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	548	561	559	557	560	565
location	east of rise (4)	at ash face (1)	east of rise (4)	near ash face (2)	east of rise (4)	at boat ramp
sample depth	60'	20'	20'	20'	30'	0
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP
Field pH						
Lab pH	11.7	11.9	11.9	11.9	11.8	10.0
Temperature [C]						
D.O.						
Tot. Hardness						588
Conductivity	2100	2660	2700	2700	2700	36.0
Alkalinity	318.0	444.0	466.0	472.0	454.0	0.0
Hot Acidity	0.0	0.0	0.0	0.0	0.0	0.0
Iron (T)	0.150	0.046	0.167	<0.020	0.481	0.054
Iron (D)						0.053
Manganese (T)	**0.032**	<0.010	<0.010	<0.010	<0.010	0.053
Manganese (D)	**0.023**	<0.010	<0.010	<0.010	<0.010	267
Sulfate (T)	332	149	152	143	143	
Sulfide						0.56
Fluoride	1.56	1.40	1.50	1.40	1.50	2.0
Chloride	4.0	5.0	5.0	5.0	5.0	9.96
Sodium	15.30	19.50	20.60	19.20	19.30	408
Dis. Solids	1173	1348	1158	1316	1222	<2
Sus. Solids	166	28	86	30	46	0.05
Ammonia N	0.08	0.08	0.08	0.08	0.08	0.11
Nitrate N	0.10	0.10	0.10	0.12	0.10	
Bicarbonate						4.01
Turbidity	130.00	16.00	40.00	7.40	21.00	
COD						
TOC	18.00	12.43	14.21	12.54	17.48	10.76
Silica (T)						
Silica (D)						
Annual Parameters						
Aluminum (T)	1.280	0.279	0.739	0.208	1.950	0.582
Aluminum (D)	1.040	<0.200	0.246	<0.200	<0.200	0.582
Arsenic (T)	0.004	<0.004	<0.004	<0.004	<0.004	<0.040
Arsenic (D)	<0.0040	<0.004	<0.004	<0.004	<0.004	<0.040
Barium (T)	0.024	0.022	0.026	0.025	0.034	0.018
Barium (D)	0.020	0.022	0.023	0.025	0.021	0.018
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (D)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Calcium (T)	301.00	382.00	375.00	358.00	372.00	108.00
Calcium (D)	301.00	382.00	369.00	357.00	372.00	104.00
Chromium (T)	0.078	0.106	0.106	0.105	0.107	<0.050
Chromium (D)	0.075	0.106	0.106	0.105	0.107	<0.050
Copper (T)	0.015	0.016	0.045	0.042	0.028	<0.010
Copper (D)	<0.010	<0.010	<0.010	0.011	<0.010	<0.010
Lead (T)	0.0020	0.0019	0.0034	0.0026	0.0034	<0.010
Lead (D)	<0.001	0.0014	0.0020	0.0020	0.0014	<0.010
Magnesium (T)	**0.22**	0.13	0.18	0.12	0.26	3.42
Magnesium (D)	**0.13**	0.12	0.17	0.12	0.12	3.42
Mercury (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (D)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Selenium (T)	**0.0522**	0.0467	0.0483	0.0471	0.0489	<0.070
Selenium (D)	**0.0519**	0.0454	0.0483	0.0471	0.0489	<0.070
Silver (T)						
Silver (D)						
Zinc (T)	0.017	0.034	**0.189**	0.038	0.036	0.022
Zinc (D)	<0.010	0.034	**0.051**	0.038	0.031	0.017
Potassium (T)	15.20	17.30	18.20	18.10	18.40	7.50
Potassium (D)						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	03/24/99	04/22/99	04/22/99	04/22/99	04/22/99	04/22/99
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	593	600	599	606	605	603
location	at boat ramp	at ash face (1)	at ash face (1)	east of rise (4)	east of rise (4)	west end (3)
sample depth	0	50'	20'	40'	20'	20'
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP
Field pH						
Lab pH	11.4	11.3	11.2	11.4	11.3	11.3
Temperature [C]						
D.O.						
Tot. Hardness						
Conductivity	1462	1370	1260	1311	1241	1245
Alkalinity	190.0	146.0	130.0	148.0	136.0	136.0
Hot Acidity	0.0	0.0	0.0	0.0	0.0	0.0
Iron (T)	<0.020	<0.020	0.046	<0.020	0.034	<0.020
Iron (D)						
Manganese (T)	<0.010	<0.010	**0.015**	<0.010	<0.010	<0.010
Manganese (D)	<0.010		**<0.010**	<0.010	<0.010	<0.010
Sulfate (T)	406	402	377	386	382	383
Sulfide						
Fluoride	1.00	1.14	1.10	1.01	0.98	1.04
Chloride	4.0	4.0	4.0	4.0	5.0	5.0
Sodium	15.80	14.70	14.80	15.30	16.80	14.90
Dis. Solids	774	764	766	674	774	870
Sus. Solids	10	6	14	8	<2	<2
Ammonia N	0.05	0.05	0.03	0.04	0.04	0.04
Nitrate N	0.13	0.13	0.13	0.13	0.13	0.13
Bicarbonate						
Turbidity	1.34	2.28	1.41	2.33	1.62	2.67
COD						
TOC	8.67	10.02	10.42	8.37	8.73	7.30
Silica (T)						
Silica (D)						
Annual Parameters						
Aluminum (T)	**0.743**	0.637	0.768	0.669	0.675	0.617
Aluminum (D)	**0.651**		0.748	0.664	0.675	0.638
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004		<0.004	<0.004	<0.004	<0.004
Barium (T)	0.018	0.018	0.019	0.018	0.017	0.016
Barium (D)	0.018		0.019	0.018	0.017	0.016
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (D)	<0.010		<0.010	<0.010	<0.010	<0.010
Calcium (T)	220.00	203.00	185.00	242.00	228.00	188.00
Calcium (D)	214.00		183.00	242.00	228.00	188.00
Chromium (T)	0.054	0.063	0.062	0.059	0.055	0.057
Chromium (D)	0.054		0.058	0.057	0.052	0.055
Copper (T)	<0.010	0.033	0.066	0.025	0.027	0.036
Copper (D)	<0.010		0.014	0.012	0.015	0.014
Lead (T)	<0.001	0.0025	0.0033	0.0015	0.0014	0.0020
Lead (D)	<0.001		0.0011	0.0012	0.0012	0.0014
Magnesium (T)	0.18	0.15	**0.32**	0.15	0.15	0.17
Magnesium (D)	0.17		**0.18**	0.15	0.15	0.17
Mercury (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (D)	<0.050		<0.050	<0.050	<0.050	<0.050
Selenium (T)	0.0203	0.0179	0.0182	0.0212	0.0210	0.0188
Selenium (D)	0.0184		0.0176	0.0212	0.0187	0.0194
Silver (T)						
Silver (D)						
Zinc (T)	**0.015**	0.027	0.047	0.018	0.017	0.026
Zinc (D)	**<0.010**		0.024	0.010	0.016	0.017
Potassium (T)	11.20	11.60	14.40	3.78	3.66	10.30
Potassium (D)						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	04/22/99	04/22/99	04/22/99	06/30/99	06/30/99	06/30/99
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	602	601	604	828	826	824
location	near ash face (2)	near ash face (2)	west end (3)	east of rise (4)		near ash face (2)
sample depth	60'	20'	60'	40'		50'
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP
Field pH						
Lab pH	11.4	11.3	11.4	11.1	10.8	11.3
Temperature [C]						
D.O.						
Tot. Hardness						
Conductivity	1355	1251	1357	106.0	72.0	132.0
Alkalinity	162.0	136.0	156.0	0.0	0.0	0.0
Hot Acidity	0.0	0.0	0.0	<0.02	0.235	**0.055**
Iron (T)	<0.020	<0.020	<0.020			**<0.020**
Iron (D)				0.020	0.021	0.025
Manganese (T)	<0.010	<0.010	<0.010			0.012
Manganese (D)		<0.010	<0.010	418	438	434
Sulfate (T)	397	393	386			
Sulfide						
Fluoride	1.14	1.11	1.03			
Chloride	5.0	4.0	5.0	15.50	16.60	17.10
Sodium	16.90	14.60	16.00			
Dis. Solids	834	778	790	14	54	6
Sus. Solids	4	<2	20			
Ammonia N	0.04	0.04	0.04			
Nitrate N	0.14	0.13	0.13			
Bicarbonate						
Turbidity	4.40	3.01	9.73			
COD						
TOC				8.88	10.81	9.93
Silica (T)	8.17	7.94	9.10			
Silica (D)						
Annual Parameters				0.598	1.150	0.712
Aluminum (T)	0.657	0.657	0.557			0.654
Aluminum (D)		0.657	0.538			
Arsenic (T)	<0.004	<0.004	<0.004			
Arsenic (D)		<0.004	<0.004			
Barium (T)	0.018	0.019	0.019			
Barium (D)		0.019	0.019			
Cadmium (T)	<0.010	<0.010	<0.010			
Cadmium (D)		<0.010	<0.010			
Calcium (T)	217.00	192.00	218.00			
Calcium (D)		192.00	218.00			
Chromium (T)	0.063	0.060	0.063			
Chromium (D)		0.060	0.063			
Copper (T)	0.019	0.015	0.036			
Copper (D)		0.015	0.013			
Lead (T)	0.0022	**0.0013**	0.0024			
Lead (D)		**<0.001**	0.0019			
Magnesium (T)	0.15	**0.18**	0.15			
Magnesium (D)		**0.16**	0.15			
Mercury (T)	<0.001	<0.001	<0.001			
Mercury (D)	<0.001	<0.001	<0.001			
Nickel (T)	<0.050	<0.050	<0.050			
Nickel (D)		<0.050	<0.050			
Selenium (T)	0.0201	0.0176	0.0220			
Selenium (D)		0.0176	0.0220			
Silver (T)						
Silver (D)						
Zinc (T)	0.019	0.016	0.026			
Zinc (D)		0.016	0.026			15.20
Potassium (T)	17.10	10.50	13.00	12.70	14.50	14.20
Potassium (D)						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	06/30/99	06/30/99	06/30/99	06/30/99	06/30/99	8/11/1999
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	823	827	821	825	822	641
location	near ash face (2)	east of rise (4)	at ash face (1)	west end (3)	at ash face (1)	east of rise (4)
sample depth	20' DEP	20' DEP	20' DEP	20' DEP	50' DEP	40' DEP
Laboratory						
Field pH						
Lab pH	10.9	10.5	10.4	9.5	11.4	11.3
Temperature [C]						
D.O.						
Tot. Hardness						1678
Conductivity						188.0
Alkalinity	82.0	58.0	52.0	34.0	164.0	0.0
Hot Acidity	0.0	0.0	0.0	0.0	0.0	0.096
Iron (T)	**0.027**	<0.020	**0.134**	<0.020	**0.052**	
Iron (D)	**<0.020**		**<0.020**		**<0.020**	0.011
Manganese (T)	**0.036**	0.016	0.022	0.018	0.023	<0.010
Manganese (D)	**0.017**		0.014		0.018	496
Sulfate (T)	421	433	503	416	455	
Sulfide						1.20
Fluoride						5.0
Chloride						17.60
Sodium	17.30	14.30	16.30	15.40	17.00	848
Dis. Solids						50
Sus. Solids	8	12	6	10	10	*0.05*
Ammonia N						0.14
Nitrate N						
Bicarbonate						6.46
Turbidity						
COD						
TOC						
Silica (T)	9.31	8.11	9.63	8.80	9.39	
Silica (D)						
Annual Parameters						
Aluminum (T)						1.350
Aluminum (D)	**0.882**	0.598	0.775	0.618	0.653	1.250
Arsenic (T)	**0.576**		0.672		0.653	<0.004
Arsenic (D)						<0.004
Barium (T)						0.033
Barium (D)						0.026
Cadmium (T)						0.010
Cadmium (D)						<0.010
Calcium (T)						254.00
Calcium (D)						251.00
Chromium (T)						0.086
Chromium (D)						0.077
Copper (T)						0.023
Copper (D)						<0.010
Lead (T)						0.0016
Lead (D)						0.0016
Magnesium (T)						0.14
Magnesium (D)						0.13
Mercury (T)						<0.001
Mercury (D)						<0.001
Nickel (T)						<0.050
Nickel (D)						<0.050
Selenium (T)						0.0355
Selenium (D)						0.0355
Silver (T)						
Silver (D)						**0.035**
Zinc (T)						**0.023**
Zinc (D)						
Potassium (T)	16.20	11.90	14.30	13.00	15.20	
Potassium (D)	16.20		15.40		16.00	

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	8/11/1999	8/11/1999	8/11/1999	8/11/1999	8/11/1999	8/11/1999
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	640	639	638	636	635	634
location	east of rise (4)	west end (3)		near ash face (2)	at ash face (1)	at ash face (1)
sample depth	20'	40'		20'	40'	20'
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP
Field pH						
Lab pH	11.2	11.2	11.2	11.2	11.4	11.4
Temperature [C]						
D.O.						
Tot. Hardness	1556	1588	1573	1570	1769	1872
Conductivity	162.0	168.0	172.0	166.0	218.0	236.0
Alkalinity	0.0	0.0	0.0	0.0	0.0	0.0
Hot Acidity	0.078	0.122	0.159	0.234	1.180	0.846
Iron (T)						
Iron (D)					0.053	**0.203**
Manganese (T)	<0.010	0.023	0.029	0.032	0.053	**0.043**
Manganese (D)	<0.010	0.023	0.023	0.030	464	514
Sulfate (T)	500	509	462	461		
Sulfide					1.30	1.30
Fluoride	1.20	1.20	1.20	1.20	5.0	5.0
Chloride	5.0	5.0	5.0	5.0	20.10	19.40
Sodium	18.40	17.90	20.00	19.00	954	980
Dis. Solids	756	976	960	870	<2	<2
Sus. Solids	14	16	6	6	*0.05*	*0.05*
Ammonia N	*0.04*	*0.05*	*0.05*	*0.04*	0.15	0.14
Nitrate N	0.15	0.15	0.15	0.15		
Bicarbonate					6.22	4.20
Turbidity	3.85	6.44	7.33	6.17		
COD						
TOC						
Silica (T)						
Silica (D)						
Annual Parameters						
Aluminum (T)	1.120	1.260	1.520	1.270	1.290	**1.620**
Aluminum (D)	0.960	1.230	1.230	1.230	1.290	**1.210**
Arsenic (T)	0.005	<0.004	0.004	<0.004	0.005	0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium (T)	0.030	0.023	0.025	0.022	0.028	**0.038**
Barium (D)	0.024	0.023	0.023	0.022	0.028	**0.024**
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (D)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Calcium (T)	274.00	270.00	318.00	286.00	302.00	283.00
Calcium (D)	271.00	270.00	297.00	286.00	302.00	281.00
Chromium (T)	0.077	0.076	0.083	**0.086**	0.074	0.079
Chromium (D)	0.066	0.076	0.078	**0.073**	0.073	0.074
Copper (T)	0.020	0.018	0.013	0.022	0.021	**0.048**
Copper (D)	0.012	<0.010	<0.010	<0.010	0.016	**0.038**
Lead (T)	0.0014	0.0016	0.0018	0.0069	0.0274	**0.0248**
Lead (D)	0.0014	0.0016	0.0017	0.0019	0.0274	**0.2090**
Magnesium (T)	0.11	0.14	0.16	0.16	0.12	**0.33**
Magnesium (D)	0.10	0.14	0.12	0.15	0.12	**0.13**
Mercury (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (T)	<0.050	<0.050	<0.050	<0.050	<0.050	**0.284**
Nickel (D)	<0.050	<0.050	<0.050	<0.050	<0.050	**<0.050**
Selenium (T)	0.0388	0.0352	0.0388	0.0372	0.0411	0.0396
Selenium (D)	0.0368	0.0352	0.0357	0.0351	0.0390	0.0366
Silver (T)						
Silver (D)						
Zinc (T)	**0.021**	**0.041**	0.039	**0.058**	0.162	**1.250**
Zinc (D)	**<0.010**	**0.012**	<0.010	**0.038**	0.162	**0.110**
Potassium (T)						
Potassium (D)						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	10/27/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	11	12	13	16	17	18
location	at ash face (1)	at ash face (1)	near ash face (2)	west end (3)	east of rise (4)	east of rise (4)
sample depth	20' DEP	40' DEP	20' DEP	40' DEP	20' DEP	40' DEP
Laboratory						
Field pH						
Lab pH	11.8	11.8	11.8	11.8	11.8	11.8
Temperature [C]						
D.O.						
Tot. Hardness	2840	2820	2810	2850	2780	2740
Conductivity	452.0	440.0	436.0	398.0	380.0	370.0
Alkalinity	0.0	0.0	0.0	0.0	0.0	0.0
Hot Acidity	<0.020	0.061	0.084	<0.020	<0.020	0.053
Iron (T)						
Iron (D)				0.045	**0.066**	<0.010
Manganese (T)	**0.010**	**0.002**	**0.011**	0.031	**0.029**	<0.010
Manganese (D)	**<0.010**	**<0.010**	**0.010**	549	547	678
Sulfate (T)	200	564	562			
Sulfide				1.60	1.62	1.60
Fluoride	1.65	1.64	1.61	6.0	6.0	7.0
Chloride	7.0	6.0	7.0	25.80	24.90	25.40
Sodium	23.90	23.50	22.30	1380	1394	1394
Dis. Solids	1384	1348	1384	16	8	16
Sus. Solids	10	10	12	*0.05*	*0.04*	*0.04*
Ammonia N	*0.04*	*0.04*	*0.04*	0.16	0.16	0.16
Nitrate N	0.18	0.16	0.16			
Bicarbonate				13.20	8.01	6.52
Turbidity	10.90	6.69	3.55			
COD						
TOC				13.80	14.74	14.02
Silica (T)	**11.86**	13.46	12.41	13.63	14.74	13.80
Silica (D)	**10.74**	12.43	11.73			
Annual Parameters						
Aluminum (T)				**0.526**	**0.605**	0.430
Aluminum (D)	**0.377**	0.621	**0.451**	**0.362**	**0.301**	0.312
Arsenic (T)	**0.361**	0.607	**0.448**	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium (T)	<0.004	<0.004	<0.004	0.036	0.037	0.035
Barium (D)	**0.034**	0.038	0.034	0.036	0.037	0.035
Cadmium (T)	**0.033**	0.035	0.033	<0.010	<0.010	<0.010
Cadmium (D)	<0.010	**<0.010**	<0.010	<0.010	<0.010	<0.010
Calcium (T)	<0.010	**0.010**	<0.010	436.00	424.00	426.00
Calcium (D)	424.00	429.00	**425.00**	436.00	424.00	426.00
Chromium (T)	423.00	417.00	**423.00**	0.117	0.119	0.119
Chromium (D)	**0.120**	0.130	0.124	0.116	0.117	0.119
Copper (T)	**0.117**	0.126	0.121	0.021	**0.061**	0.026
Copper (D)	0.050	0.030	0.028	0.012	**0.029**	<0.010
Lead (T)	0.023	0.015	<0.010	0.0030	**0.0094**	0.0029
Lead (D)	0.0039	0.0030	0.0021	0.0024	**0.0030**	0.0022
Magnesium (T)	0.0030	0.0021	0.0016	**0.22**	**0.14**	0.07
Magnesium (D)	0.07	**0.15**	0.08	**0.07**	**0.06**	0.06
Mercury (T)	0.07	**0.09**	0.07	<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (T)	<0.001	<0.001	<0.001	<0.050	<0.050	<0.050
Nickel (D)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Selenium (T)	<0.050	<0.050	<0.050	0.0518	0.0526	0.0530
Selenium (D)	0.0523	0.0540	0.0523	0.0502	0.0504	0.0521
Silver (T)	0.0523	0.0534	0.0523			
Silver (D)						
Zinc (T)				0.024	**0.517**	**0.059**
Zinc (D)	**0.052**	**0.040**	**0.123**	0.024	**0.019**	**0.018**
Potassium (T)	**0.030**	**0.022**	**0.024**	27.60	27.50	28.60
Potassium (D)	**27.50**	29.70	27.80	27.10	27.30	28.60
	24.30	28.90	26.50			

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	11/23/1999	12/29/1999	3/7/2000	3/27/2000	4/25/2000	4/25/2000
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	29	54	185	190	206	207
location	at boat ramp	at boat ramp	at boat ramp	at boat ramp	at ash face (1)	at ash face (1)
sample					20'	40'
depth	0	0	0	0	DEP	DEP
Laboratory	DEP	DEP	DEP	DEP		
Field pH					11.3	11.7
Lab pH	11.6	11.9	10.5	9.9		
Temperature [C]						
D.O.						
Tot. Hardness					1337	2310
Conductivity	2590	2820	744	782	146.0	340.0
Alkalinity	390.0	462.0	60.0	56.0	0.0	0.0
Hot Acidity	0.0	0.0	0.0	0.0	<0.020	<0.020
Iron (T)	0.054	0.046		0.068		
Iron (D)				0.030	<0.010	<0.010
Manganese (T)	0.059	<0.010		0.030	<0.010	<0.010
Manganese (D)	0.059	<0.010		368	421	499
Sulfate (T)	549	165	283			
Sulfide				0.60	0.89	1.28
Fluoride	1.60	1.47	0.46	4.0	5.0	6.0
Chloride	10.0	6.0	3.0	15.10	19.30	20.50
Sodium	25.80	28.50		574	842	1216
Dis. Solids	1238	1492	498	28	4	6
Sus. Solids	4	6	26	*0.03*	0.02	<0.02
Ammonia N	*<0.02*	*0.04*	*0.03*	0.11	0.14	0.17
Nitrate N	0.17	0.15	0.26			
Bicarbonate				2.40	<1	<1
Turbidity	1.10	5.58	1.94			
COD						
TOC				9.54	8.75	8.80
Silica (T)	9.80	10.79				
Silica (D)	9.80					
Annual Parameters						
Aluminum (T)	**0.281**	0.322		1.150	0.588	0.495
Aluminum (D)	**0.214**	<0.20		0.996	0.558	0.489
Arsenic (T)	<0.04	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium (T)	0.031	0.034		0.019	0.019	0.020
Barium (D)	0.030	0.031		0.019	0.016	0.019
Cadmium (T)	<0.010	<0.010		<0.010	<0.010	<0.010
Cadmium (D)	<0.010	<0.010		<0.010	<0.010	<0.010
Calcium (T)	368.00	396.00		142.00	195.00	225.00
Calcium (D)	360.00	369.00		136.00	176.00	224.00
Chromium (T)	0.111	0.135		<0.050	0.066	0.079
Chromium (D)	0.110	0.131		<0.050	0.058	0.076
Copper (T)	<0.010	<0.010		<0.010	0.020	0.014
Copper (D)	<0.010	<0.010		<0.010	0.011	0.012
Lead (T)	<0.001	<0.001	<0.001	<0.001	0.0010	<0.001
Lead (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium (T)	**0.14**	0.10		1.84	0.32	0.26
Magnesium (D)	**0.06**	0.08		1.84	0.29	0.24
Mercury (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (T)	<0.050	<0.050		<0.050	<0.050	<0.050
Nickel (D)	<0.050	<0.050		<0.050	<0.050	<0.050
Selenium (T)	0.0482	0.0468	**0.0166**	**0.0238**	0.0238	**0.0265**
Selenium (D)	0.0482	0.0468	**0.0171**	**0.0218**	0.0228	**0.0263**
Silver (T)						
Silver (D)				0.010	**0.147**	**0.043**
Zinc (T)	**0.037**	<0.010		0.010	**0.018**	**0.026**
Zinc (D)	**<0.010**	<0.010		14.00	14.60	19.00
Potassium (T)	27.10	25.10				
Potassium (D)	27.10					

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	4/25/2000	4/25/2000	4/25/2000	5/24/2000	6/27/2000	6/27/2000
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	209	210	211	260	284	285
location	west end (3)	east of rise (4)	east of rise (4)	at boat ramp	at ash face (1)	at ash face (1)
sample depth	40'	20'	40'	0	20'	40'
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP
Field pH						
Lab pH	11.7	11.1	11.6	11.3	11.6	11.6
Temperature [C]						
D.O.						
Tot. Hardness				1397	2520	2610
Conductivity				142.0	382.0	310.0
Alkalinity	304.0	108.0	264.0	0.0	0.0	0.0
Hot Acidity	0.0	0.0	0.0	0.0	0.039	<0.020
Iron (T)	<0.020	<0.020	0.031	0.020		
Iron (D)					<0.010	**0.021**
Manganese (T)	<0.010	<0.010	<0.010	0.010	<0.010	**<0.010**
Manganese (D)	<0.010	<0.010	<0.010	<0.010	360	565
Sulfate (T)	457	453	401	511		
Sulfide					1.42	1.32
Fluoride	1.22	0.86	1.14	1.02	7.0	7.0
Chloride	6.0	5.0	6.0	6.0	23.50	22.90
Sodium	20.60	20.50	22.30	20.10	1326	1168
Dis. Solids	1174	812	1136	898	14	16
Sus. Solids	<2	12	10	14	*0.04*	*0.04*
Ammonia N	0.21	<0.02	<0.02	*0.04*	0.18	0.18
Nitrate N	0.15	0.14	0.14	0.20		
Bicarbonate					1.94	3.71
Turbidity	1.35	1.45	1.57	4.48		
COD						
TOC					12.93	12.03
Silica (T)	8.84	8.86	9.27	9.61		
Silica (D)						
Annual Parameters						
Aluminum (T)	**0.518**	0.548	0.486	0.725	0.471	**0.604**
Aluminum (D)	**0.444**	0.480	0.455	0.663	0.428	**0.535**
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium (T)	0.020	0.019	0.023	0.020	0.032	0.028
Barium (D)	0.019	0.018	0.020	0.020	0.030	0.026
Cadmium (T)	<0.010	<0.010	<0.010	**0.018**	<0.010	<0.010
Cadmium (D)	<0.010	<0.010	<0.010	**<0.010**	<0.010	<0.010
Calcium (T)	226.00	218.00	250.00	**243.00**	394.00	359.00
Calcium (D)	221.00	204.00	243.00	**240.00**	373.00	335.00
Chromium (T)	0.079	0.076	0.092	<0.050	0.119	0.109
Chromium (D)	0.075	0.072	0.086	<0.050	0.108	0.099
Copper (T)	0.110	0.040	0.054	<0.010	0.050	0.031
Copper (D)	0.032	0.022	0.017	<0.010	0.030	0.012
Lead (T)	<0.001	0.0017	0.0022	<0.001	0.0047	0.0026
Lead (D)	0.0011	<0.001	0.0017	<0.001	0.0038	0.0016
Magnesium (T)	0.26	0.28	0.25	0.25	**0.15**	**0.24**
Magnesium (D)	0.24	0.25	0.22	0.20	**0.08**	**0.09**
Mercury (T)	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (D)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Selenium (T)	0.0263	0.0273	**0.0312**	0.0281	0.0339	0.0358
Selenium (D)	0.0265	0.0266	**0.0299**	0.0281	0.0338	0.0337
Silver (T)						
Silver (D)					0.045	0.027
Zinc (T)	0.020	0.028	0.015	0.017	0.035	0.022
Zinc (D)	0.017	0.014	<0.010	0.015	27.50	27.30
Potassium (T)	17.40	19.30	21.00	20.10		
Potassium (D)						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	6/27/2000	6/27/2000	6/27/2000	7/26/2000	8/22/2000	11/8/2000
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	287	288	289	310	400	487
location	west end (3)	east of rise (4)	east of rise (4)	at boat ramp	at boat ramp	east of rise (4)
sample depth	40'	20'	40'	0	0	20'
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP
Field pH						
Lab pH	11.5	11.6	11.7	12.0	12.1	12.0
Temperature [C]						
D.O.						
Tot. Hardness						
Conductivity	2860	2380	2620	3130	3750	3760
Alkalinity	270.0	340.0	388.0	516.0	626.0	602.0
Hot Acidity	0.0	0.0	0.0	0.0	0.0	0.0
Iron (T)	0.136	0.045				
Iron (D)						
Manganese (T)	<0.010	**0.031**		<0.010	**0.017**	**0.016**
Manganese (D)	<0.010	**<0.010**		<0.010	**<0.010**	**<0.010**
Sulfate (T)	577	576	548	775	538	754
Sulfide						
Fluoride	1.29	1.38	1.42	1.63	1.80	1.60
Chloride	7.0	7.0	7.0	9.0	10.0	13.0
Sodium	22.70	25.10		28.10	28.30	39.90
Dis. Solids	1172	1250	1314	1514	1628	1984
Sus. Solids	26	8	20	14	12	10
Ammonia N	*0.04*	*0.05*	*0.05*	0.05	*0.07*	
Nitrate N	0.19	0.18	0.17	0.19	0.20	0.20
Bicarbonate						
Turbidity	3.92	2.48	2.61	3.56	2.79	3.55
COD			0.00			
TOC						
Silica (T)	13.16	13.57		9.76	6.74	**4.43**
Silica (D)				8.97	6.70	**4.34**
Annual Parameters						
Aluminum (T)	0.947	**0.927**		0.434	*0.566*	**0.309**
Aluminum (D)	0.482	**0.548**		0.430	*0.362*	**<0.200**
Arsenic (T)	<0.004	<0.004		<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004		<0.004	<0.004	<0.004
Barium (T)	0.030	0.032		0.037	0.042	**0.064**
Barium (D)	0.025	0.029		0.036	0.040	**0.058**
Cadmium (T)	<0.010	<0.010		0.011	<0.010	<0.010
Cadmium (D)	<0.010	<0.010		<0.010	<0.010	<0.010
Calcium (T)	363.00	378.00		403.00	458.00	**573.00**
Calcium (D)	333.00	368.00		436.00	409.00	**566.00**
Chromium (T)	0.107	0.118		**0.143**	0.153	0.208
Chromium (D)	0.105	0.116		**0.011**	0.137	0.198
Copper (T)	0.047	0.050		<0.010	<0.010	<0.010
Copper (D)	0.015	0.021		<0.010	<0.010	<0.010
Lead (T)	0.0035	0.0030		<0.001	<0.001	0.0041
Lead (D)	0.0020	0.0023		<0.001	<0.001	0.0011
Magnesium (T)	0.14	**0.28**		**0.12**	**0.23**	**0.11**
Magnesium (D)	0.10	**0.09**		**0.07**	**0.05**	**0.05**
Mercury (T)	<0.001	<0.001		<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001		<0.001	<0.001	<0.001
Nickel (T)	<0.050	<0.050		<0.050	<0.050	<0.050
Nickel (D)	<0.050	<0.050		<0.050	<0.050	<0.050
Selenium (T)	0.0336	0.0418		0.0549	0.0785	0.0734
Selenium (D)	0.0336	0.0410		0.0528	0.0734	0.0732
Silver (T)						
Silver (D)				0.129	<0.010	**0.091**
Zinc (T)	0.049	0.046		<0.010	<0.010	**0.022**
Zinc (D)	0.028	0.036		30.70	28.30	42.60
Potassium (T)	26.90	26.80		30.30	27.20	41.50
Potassium (D)						

Data from the NEPCO site

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bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	11/8/2000	11/8/2000	3/20/2001	5/21/2001	8/28/2001	12/4/2001	3/11/2002	5/23/2002
sample name	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla	Gorilla
sample ID	486	485	628	74	90	4553	4550	4553 116
location	?	at boat ramp	at boat ramp	at boat ramp	at boat ramp	near ash face	at boat ramp	near ash face
sample depth	?	0	0	0	0	0	0	0
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP	DEP	DEP
Field pH								
Lab pH	12.0	12.0	11.1	12.0	12.1	11.4	11.8	11.7
Temperature [C]								
D.O.								
Tot. Hardness								
Conductivity	3790	3750	1150	3650	3670	2230	2730	2290
Alkalinity	606.0	604.0	90.0	588.0	596.0	182.0	356.0	356.0
Hot Acidity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Iron (T)			0.027	**0.168**	**0.145**	**0.370**	**0.220**	0.078
Iron (D)			0.023	**<0.020**	**0.040**	**0.080**	**0.090**	
Manganese (T)	**0.012**	<0.010	**0.012**	**0.016**	**0.014**	**0.020**	**0.030**	0.032
Manganese (D)	**<0.010**	<0.010	**<0.010**	**<0.010**	**<0.010**	**<0.010**	**<0.010**	
Sulfate (T)	772	587	414	950	1021	800	739	591
Sulfide								
Fluoride	1.50	1.50						
Chloride	12.0	13.0	5.0	12.0	18.0	22.0	20.0	13.0
Sodium	40.70	39.60	17.50	38.20	52.60	53.10	56.80	34.90
Dis. Solids	2032	1770	420	2200	2186	1720	1752	1320
Sus. Solids	26	12	6	20	4	6	28	32
Ammonia N								
Nitrate N	0.20	0.23						
Bicarbonate								
Turbidity	2.67	2.91						
COD								
TOC								
Silica (T)	**4.30**	4.43	4.79	7.30	6.29	6.40	11.79	
Silica (D)	**4.22**	4.22	4.75	5.48	6.08		10.81	
Annual Parameters								
Aluminum (T)	<0.2	<0.20	**0.237**	**0.403**	**0.412**	**0.437**	0.469	0.537
Aluminum (D)	<0.2	<0.20	**0.202**	**<0.200**	**0.245**	**<0.200**	0.384	
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.004	
Barium (T)	**0.059**	0.057						
Barium (D)	**0.055**	0.054	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Cadmium (D)	<0.010	<0.010	**175.00**	533.00	614.00	346.00	457.00	350.00
Calcium (T)	**537.00**	**570.00**	**170.00**	499.00	562.00	333.00	436.00	
Calcium (D)	**531.00**	**566.00**	<0.050	0.180	0.246	0.260	0.240	0.140
Chromium (T)	**0.208**	0.209	<0.050	0.163	0.236	0.230	0.210	
Chromium (D)	**0.203**	0.214	0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Copper (D)	<0.010	<0.010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lead (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Lead (D)	<0.001	<0.001	**1.12**	**0.22**	**0.22**	**0.55**	**0.47**	0.37
Magnesium (T)	**0.05**	0.05	**0.75**	**0.06**	**0.06**	**0.09**	**0.11**	
Magnesium (D)	**0.04**	0.05	<0.001	<0.001	<0.001	<0.001		<0.001
Mercury (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Mercury (D)	<0.001	<0.001	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Nickel (D)	<0.050	<0.050	**0.0286**	0.0682	0.1010	0.0928	0.0892	0.0697
Selenium (T)	**0.0737**	**0.0732**	**0.0268**	0.0640	0.0917	0.0890	0.0893	
Selenium (D)	**0.0709**	**0.0724**						
Silver (T)								
Silver (D)			0.032	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc (T)	**0.072**	**0.053**	<0.010	<0.010	<0.010	<0.010	<0.010	
Zinc (D)	**<0.010**	**<0.010**	**15.90**	41.30	56.80	58.20	56.80	35.60
Potassium (T)	43.80	**42.90**	**15.60**	39.10	56.60	56.80	55.40	
Potassium (D)	43.30	**41.90**						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	6/3/2003
sample name	Gorilla
sample ID	4550 121
location	surface
sample depth	0
Laboratory	DEP
Field pH	
Lab pH	8.3
Temperature [C]	
D.O.	
Tot. Hardness	
Conductivity	756
Alkalinity	21.2
Hot Acidity	0.0
Iron (T)	0.070
Iron (D)	0.051
Manganese (T)	**0.011**
Manganese (D)	**<0.010**
Sulfate (T)	378
Sulfide	
Fluoride	
Chloride	2.9
Sodium	17.70
Dis. Solids	17
Sus. Solids	4
Ammonia N	
Nitrate N	
Bicarbonate	
Turbidity	
COD	
TOC	
Silica (T)	
Silica (D)	
Annual Parameters	
Aluminum (T)	0.767
Aluminum (D)	0.529
Arsenic (T)	0.008
Arsenic (D)	0.007
Barium (T)	
Barium (D)	
Cadmium (T)	<0.010
Cadmium (D)	<0.010
Calcium (T)	139.00
Calcium (D)	134.00
Chromium (T)	<0.050
Chromium (D)	<0.050
Copper (T)	<0.010
Copper (D)	<0.010
Lead (T)	<0.001
Lead (D)	<0.001
Magnesium (T)	2.87
Magnesium (D)	2.75
Mercury (T)	<0.001
Mercury (D)	<0.001
Nickel (T)	<0.050
Nickel (D)	<0.050
Selenium (T)	0.0265
Selenium (D)	0.0265
Silver (T)	
Silver (D)	
Zinc (T)	0.394
Zinc (D)	0.360
Potassium (T)	15.60
Potassium (D)	15.20

Data from the NEPCO site

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sample date	05/03/89	08/14/89	11/18/89	02/17/90	05/14/90	08/27/90	12/09/90	02/24/91
sample name	Well 1	Well 1	Well 1	Well 1	Well 1	Well 1	Well 1	Well 1
sample ID								
location								
Laboratory								
depth	1589	1560	1560	1566	1570	1563	1572	1567
Field pH	4.4	5.0	4.0	4.0	4.4	4.6	4.2	4.1
Lab pH								
Temperature [C]	9	9	9	8	9	9	8	8
D.O.								
Tot. Hardness								
Conductivity	100	88	91	95	84	89	85	81
Alkalinity	<1	1.4	<1	<1	<1	1.0	<1	<1
Hot Acidity	29.2	34.0	33.0	32.4	33.0	34.0	36.5	68.4
Iron (T)	4.100	7.300	4.500	2.700	2.400	2.500	2.450	4.200
Iron (D)								
Manganese (T)	0.340	0.360	0.300	0.310	0.350	0.340	0.320	0.340
Manganese (D)								
Sulfate (T)	38	29	32	36	34	35	32	32
Sulfide								
Fluoride	<0.2				<0.2			
Chloride	0.9				1.0			
Sodium	0.24				0.26			
Dis. Solids	85	70	83	90	72	74	68	60
Sus. Solids	2	3	1	10	2	1	1	<1
Ammonia N	0.11				<0.5			
Nitrate N	<0.1				<0.1			
Bicarbonate								
Turbidity								
COD								
TOC								
Silica (T)								
Silica (D)								
Annual Parameters								
Aluminum (T)	<0.1	<0.1	1.100	0.890	0.200	0.450	0.400	0.890
Aluminum (D)								
Arsenic (T)	<0.001				<0.001			
Arsenic (D)								
Barium (T)	<0.1				<0.1			
Barium (D)								
Cadmium (T)	0.010				<0.005			
Cadmium (D)								
Calcium (T)	4.10				0.12			
Calcium (D)								
Chromium (T)	<0.05				<0.05			
Chromium (D)								
Copper (T)	<0.005				<0.01			
Copper (D)								
Lead (T)	0.1000				0.1700			
Lead (D)								
Magnesium (T)	5.05				0.35			
Magnesium (D)								
Mercury (T)	<0.0002				<0.0002			
Mercury (D)								
Nickel (T)								
Nickel (D)								
Selenium (T)	<0.002				<0.002			
Selenium (D)								
Silver (T)	<0.01				<0.01			
Silver (D)								
Zinc (T)	0.100				0.130			
Zinc (D)								
Potassium (T)	<0.05				0.75			
Potassium (D)								

Data from the NEPCO site

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sample date	12/09/90	02/03/91	02/24/91	03/26/91	04/29/91	05/24/91	08/23/91
sample name	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2
sample ID	1656						
location	150						
Laboratory							
depth	1570	1567	1564	1566	1564	1563	1553
Field pH	4.2	4.5	4.4	4.8	5.3	5.4	5.6
Lab pH							
Temperature [C]	8	9	8	8	9	9	9
D.O.							
Tot. Hardness							
Conductivity	65	77	81	53	65	85	80
Alkalinity	<1	<1	<1	4.8	4.3	6.3	5.1
Hot Acidity	28.7	50.8	58.0	38.2	43.4	30.8	54.4
Iron (T)	0.050	0.050	0.070	0.340	0.490	0.290	1.900
Iron (D)							
Manganese (T)	0.210	0.360	0.450	0.230	0.350	0.520	0.400
Manganese (D)							
Sulfate (T)	22	27	29	18	22	31	29
Sulfide							
Fluoride		<0.2					
Chloride		1.6					
Sodium		0.57					
Dis. Solids	56	58	33	107	45	204	110
Sus. Solids	3	4	<1	4	<1	3	5
Ammonia N		<0.5					
Nitrate N		<0.5					
Bicarbonate							
Turbidity							
COD							
TOC							
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)	0.240	0.120	0.130	0.270	0.350	0.180	0.480
Aluminum (D)							
Arsenic (T)		<0.001					
Arsenic (D)							
Barium (T)		<0.1					
Barium (D)							
Cadmium (T)		0.0400					
Cadmium (D)							
Calcium (T)							
Calcium (D)							
Chromium (T)		<0.05					
Chromium (D)							
Copper (T)		0.160					
Copper (D)							
Lead (T)		<0.05					
Lead (D)							
Magnesium (T)		4.60					
Magnesium (D)							
Mercury (T)		<0.0002					
Mercury (D)							
Nickel (T)							
Nickel (D)							
Selenium (T)		<0.002					
Selenium (D)							
Silver (T)		<0.01					
Silver (D)							
Zinc (T)		0.400					
Zinc (D)							
Potassium (T)							
Potassium (D)							

Data from the NEPCO site

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sample date	11/18/91	02/21/92	05/19/92	08/31/92	11/20/92	03/12/93	06/07/93
sample name	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2
sample ID							
location						PETL	PETL
Laboratory						PETL	PETL
depth	1549	1554	1568	1561	1565	1561	1564
Field pH	5.6	5.4	4.8	5.3	5.4	5.4	5.2
Lab pH						5.4	5.2
Temperature [C]	9	9	9.5	9.5	9	9	9
D.O.							
Tot. Hardness							81
Conductivity	84	101	60	91	83	56	4.6
Alkalinity	2.8	4.0	2.4	1.0	1.2	3.0	32.0
Hot Acidity	53.0	65.6	37.8	48.4	50.2	52.0	0.060
Iron (T)	0.640	0.850	0.080	0.920	0.650	0.490	
Iron (D)							0.700
Manganese (T)	0.500	0.650	0.350	0.400	0.490	0.340	
Manganese (D)							23
Sulfate (T)	29	37	21	22	30	18	
Sulfide							<0.2
Fluoride			0.57				2.0
Chloride			0.8				0.66
Sodium			0.50				82
Dis. Solids	78	75	35	72	68	73	<1
Sus. Solids	2	<1		3	2	10	<0.5
Ammonia N			<0.5				<0.5
Nitrate N			<0.1				
Bicarbonate							
Turbidity							
COD							
TOC							
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)			0.090	0.180	0.130	0.440	0.270
Aluminum (D)							<0.001
Arsenic (T)			44.000				
Arsenic (D)							<0.1
Barium (T)			<0.1				
Barium (D)							<0.0005
Cadmium (T)			<0.005				
Cadmium (D)							2.95
Calcium (T)							
Calcium (D)							<0.05
Chromium (T)			<0.05				
Chromium (D)							0.210
Copper (T)			0.190				
Copper (D)							<0.001
Lead (T)			<0.05				
Lead (D)							4.95
Magnesium (T)			2.68				
Magnesium (D)							<0.0002
Mercury (T)			<0.0002				
Mercury (D)							
Nickel (T)							
Nickel (D)							<0.002
Selenium (T)			<0.002				
Selenium (D)							<0.01
Silver (T)			<0.01				
Silver (D)							0.420
Zinc (T)			0.065				
Zinc (D)					0.70		0.59
Potassium (T)							
Potassium (D)							

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	09/14/93	11/16/93	03/29/94	05/27/94	08/15/94	11/21/94	02/20/95
sample name	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2
sample ID							
location							
Laboratory	PETL	PETL					
depth	1556	1559	1575	1567	1560	1559	1565
Field pH	4.9	5.0	5.1	5.0	5.2	5.1	5.2
Lab pH	4.9	5.0	5.0	5.0	4.9	4.9	5.2
Temperature [C]	10	9	9				
D.O.							
Tot. Hardness							
Conductivity	90	92	50	44	85	55	50
Alkalinity	2.1	94.4	2.4	2.5	2.3	4.0	3.1
Hot Acidity	124.1	4.3	42.0	59.4	108.4	94.8	85.0
Iron (T)	0.310	2.200	0.040	<0.01	0.040	0.050	0.030
Iron (D)							
Manganese (T)	0.850	1.960	0.200	0.120	0.130	0.110	0.200
Manganese (D)							
Sulfate (T)	29	30	17	16	30	17	18
Sulfide				<0.2	<0.2	<0.2	<0.2
Fluoride				1.2	1.5	1.0	1.4
Chloride				0.35	0.59	1.67	4.05
Sodium				40	75	30	35
Dis. Solids	55	62	38	<1	<1	1	<1
Sus. Solids	<1	<1	<1	<0.1	<0.5	<0.5	<0.5
Ammonia N				0.29	<0.5	<0.5	<0.5
Nitrate N				2.50	2.30	4.00	3.10
Bicarbonate				0.29	3.70	0.49	0.29
Turbidity				<10	<10	12.00	<10
COD							
TOC							
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)	0.210	0.210	0.310	0.160			
Aluminum (D)							
Arsenic (T)				<0.05	<0.001		
Arsenic (D)							
Barium (T)				<0.1	<0.1		
Barium (D)							
Cadmium (T)				0.0100	<0.0005		
Cadmium (D)							
Calcium (T)							
Calcium (D)							
Chromium (T)				<0.05	<0.001		
Chromium (D)							
Copper (T)				0.060	nd		
Copper (D)							
Lead (T)				<0.05	<0.001		
Lead (D)							
Magnesium (T)				1.91	nd		
Magnesium (D)							
Mercury (T)				<0.0002	<0.0002		
Mercury (D)							
Nickel (T)				<0.05			
Nickel (D)							
Selenium (T)				0.0960	<0.002		
Selenium (D)							
Silver (T)				0.010	<0.01		
Silver (D)							
Zinc (T)				0.050	nd		
Zinc (D)							
Potassium (T)						0.70	
Potassium (D)							

Data from the NEPCO site

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bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	06/06/95	08/25/95	11/14/95	02/19/96	05/14/96	09/10/96	12/31/96
sample name	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2
sample ID							
location							
Laboratory							
depth	1558.5	1555	1563	1568	1568	1561	1571
Field pH	5.0	5.1	5.0	5.0	5.0	5.4	5.1
Lab pH	4.9	4.9	5.5	5.3	5.0	5.1	5.0
Temperature [C]							
D.O.							
Tot. Hardness					50	84	62
Conductivity	60	93	64	84	3.8	4.2	5.0
Alkalinity	3.2	2.8	6.0	6.5	104.0	192.0	154.0
Hot Acidity	156.0	170.0	164.0	38.0	0.120	2.600	0.040
Iron (T)	0.980	4.800	3.100	0.100			
Iron (D)					0.300	0.900	0.200
Manganese (T)	0.790	1.000	2.000	2.000			
Manganese (D)					21	36	22
Sulfate (T)	21	1	<1	1			
Sulfide					<0.2	<0.2	<0.2
Fluoride	<0.2	<0.2	<0.2	<0.2	2.3	1.5	1.4
Chloride	2.0	1.2	13.0	1.2	0.88	0.56	0.54
Sodium	1.32	0.56	0.60	0.63	23	20	50
Dis. Solids	40	49	32	70	2	<1	<1
Sus. Solids	<1	6	<1	<1	<0.5	<0.5	<0.5
Ammonia N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrate N	2.69	<0.5	<0.5	<0.5	3.80	4.20	5.00
Bicarbonate	3.20	2.80	6.00	6.50	0.38	3.40	0.57
Turbidity	3.50	11.00	0.86	0.32	<10	<10	<10
COD	10.00	<10	<10	<10			
TOC							
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)					0.477		
Aluminum (D)	0.900				0.360		
Arsenic (T)	0.270				<0.02		
Arsenic (D)	<0.05				<0.02		
Barium (T)	<0.05				0.230		
Barium (D)	<0.1				0.210		
Cadmium (T)	<0.01				<0.005		
Cadmium (D)	<0.01				<0.005		
Calcium (T)	<0.01						
Calcium (D)							
Chromium (T)					<0.005		
Chromium (D)	<0.05				<0.005		
Copper (T)	<0.05				0.060		
Copper (D)	0.080				0.054		
Lead (T)	0.073				<0.05		
Lead (D)	<0.05				<0.05		
Magnesium (T)	<0.05				2.31		
Magnesium (D)	3.07				2.17		
Mercury (T)	2.81				<0.001		
Mercury (D)	<0.0002				<0.001		
Nickel (T)	<0.0002				0.018		
Nickel (D)	<0.05				0.016		
Selenium (T)	<0.05				<0.01		
Selenium (D)	<0.05				<0.01		
Silver (T)	<0.05				<0.005		
Silver (D)	<0.01				<0.005		
Zinc (T)	<0.01				0.069		
Zinc (D)	0.130				0.062		
Potassium (T)	0.087						
Potassium (D)							

Data from the NEPCO site

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T = total concentration, D = dissolved concentration

sample date	03/11/97	06/13/97	09/09/97	10/28/97	11/24/97	03/13/98	06/29/98
sample name	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2
sample ID							
location							PETL
Laboratory							1563.5
depth	1567	1563	1554	1551.5	1552	1573	
Field pH	4.7	4.9	5.0	5.0	5.9	5.4	5.4
Lab pH	4.8	4.9	5.1	5.0	5.2	5.1	5.2
Temperature [C]							
D.O.							
Tot. Hardness							
Conductivity	48	46	55	56	80	52	80
Alkalinity	4.5	5.0	4.5	4.8	4.0	5.0	5.0
Hot Acidity	38.0	80.0	9.2	42.0	260.0	62.0	104.0
Iron (T)	0.050	0.010	0.270	0.190	1.770	0.070	0.252
Iron (D)							
Manganese (T)	0.100	0.100	0.200	0.160	0.470	0.300	0.453
Manganese (D)							
Sulfate (T)	17	17	14	19	29	20	20
Sulfide							
Fluoride	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<1
Chloride	1.5	1.0	1.3	1.3	1.8	2.0	1.5
Sodium	0.81	0.67	0.66	0.72	1.00	<1	1.24
Dis. Solids	53	80	36	67	51	75	80
Sus. Solids	2	<1	4	<1	3	5	<1
Ammonia N	<0.5	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2
Nitrate N	<0.5	<0.5	<0.5	<0.5	<0.2	<0.5	<1
Bicarbonate	4.50	5.00	4.50	4.80	4.00	5.00	104.00
Turbidity	0.51	0.47	0.60	0.58	3.10	0.31	0.40
COD	<10	<10	<10	<10	<10	<10	<10
TOC							
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)		0.448		0.452	0.460		0.288
Aluminum (D)		0.390		0.395	0.385		0.276
Arsenic (T)		<0.02		<0.02	<0.02		<0.005
Arsenic (D)		<0.02		<0.02			<0.005
Barium (T)		0.026		0.023	0.023		0.024
Barium (D)		0.024		0.023			0.024
Cadmium (T)		<0.005		<0.005	<0.005		<0.002
Cadmium (D)		<0.005		<0.005			<0.002
Calcium (T)							2.90
Calcium (D)							2.82
Chromium (T)		<0.005		<0.005	<0.005		<0.002
Chromium (D)		<0.005		<0.005			<0.002
Copper (T)		0.069		0.052	0.115		0.179
Copper (D)		0.065		0.052			0.176
Lead (T)		<0.05		<0.05	<0.05		<0.005
Lead (D)		<0.05		<0.05			<0.005
Magnesium (T)		2.50		2.48	4.46		5.01
Magnesium (D)		2.42		2.39			4.92
Mercury (T)		<0.001		<0.0002	<0.0002		<0.0002
Mercury (D)		<0.001		<0.002			<0.0002
Nickel (T)		0.015		0.018	0.043		0.045
Nickel (D)		0.015		0.018			0.045
Selenium (T)		<0.01		<0.01	<0.01		0.0080
Selenium (D)		<0.01		<0.01			0.0070
Silver (T)		<0.005		<0.005	<0.005		<0.005
Silver (D)		<0.005		<0.005			<0.005
Zinc (T)		0.063		0.054	0.519		0.478
Zinc (D)		0.058		0.054			0.472
Potassium (T)		0.59					
Potassium (D)							

Data from the NEPCO site

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bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	08/12/98	9/15/1998	10/19/98	11/24/98	02/01/99	03/24/99	04/22/99
sample name	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2
sample ID							
location							
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP	DEP
depth							
Field pH							
Lab pH	5.1	5.1	5.1	5.1	5.0	5.0	5.2
Temperature [C]							
D.O.							
Tot. Hardness							
Conductivity	81	82	88	85	57	51	83
Alkalinity	11.8	11.8	11.0	11.8	10.8	10.8	12.4
Hot Acidity	5.2	0.0	12.0	8.0	2.0	4.2	3.6
Iron (T)	0.516	1.180	0.825	0.862	0.055	0.062	0.255
Iron (D)							
Manganese (T)	0.523	0.503	0.540	0.562	0.184	0.139	0.317
Manganese (D)	0.523		0.528	0.527	0.175	0.139	0.317
Sulfate (T)	332	32	41	<20	<20	<20.00	21
Sulfide							
Fluoride	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloride	1.0	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sodium	0.60	0.62	0.64	0.72	0.88	0.73	0.75
Dis. Solids	60	94	84	50	246	26	56
Sus. Solids	<2	<2	6	8	<2	18	4
Ammonia N	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrate N	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Bicarbonate							
Turbidity	2.40	11.70	8.60	2.70	<1	0.00	1.26
COD							
TOC	7.98			9.20	6.70	5.97	8.13
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)	**0.421**	0.386	0.371	0.314	0.438	0.425	0.290
Aluminum (D)	**0.346**		0.371	0.305	0.389	0.425	0.277
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	**0.040**	<0.004	<0.004
Arsenic (D)	<0.004		<0.004	<0.004	**<0.040**	<0.004	<0.004
Barium (T)	0.023	0.024	0.028	0.023	0.028	0.025	0.024
Barium (D)	0.022		0.027	0.023	0.025	0.025	0.024
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (D)	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010
Calcium (T)	**3.48**	2.74	**4.11**	**8.16**	**3.49**	1.98	3.04
Calcium (D)	**2.93**		**2.89**	**3.22**	**1.98**	1.93	3.04
Chromium (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chromium (D)	<0.050		<0.050	<0.050	<0.050	<0.050	<0.050
Copper (T)	0.155	0.138	0.233	0.128	0.093	0.075	0.305
Copper (D)	0.155		0.233	0.118	0.083	0.075	0.298
Lead (T)	0.0146	<0.001	<0.001	0.0042	<0.010	0.0031	0.0037
Lead (D)	0.0125		<0.001	0.0037	<0.010	0.0031	0.0023
Magnesium (T)	5.41	5.06	5.60	5.31	3.35	2.54	5.32
Magnesium (D)	5.41		5.40	5.09	3.22	2.54	5.32
Mercury (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (T)	0.055	0.054	<0.050	0.054	<0.050	<0.050	<0.050
Nickel (D)	0.055		<0.050	0.052	<0.050	<0.050	<0.050
Selenium (T)	<0.007	<0.007	<0.007	<0.007	<0.070	<0.007	0.0102
Selenium (D)	<0.007		<0.007	<0.007	<0.070	<0.007	0.0102
Silver (T)							
Silver (D)							
Zinc (T)	0.556	0.545	0.625	0.648	0.093	**0.105**	**0.228**
Zinc (D)	0.552		0.625	0.604	0.093	**0.070**	**0.191**
Potassium (T)	<0.50	<1.00		<1.00	<1.00	<1.00	<1
Potassium (D)							

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	05/26/99	06/23/99	7/29/1999	8/24/1999	9/29/1999	10/27/1999	12/29/99
sample name	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2
sample ID							
location							
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP	DEP
depth							
Field pH							
Lab pH	5.0	4.9	5.1	5.1	5.2	5.1	5.0
Temperature [C]							
D.O.							
Tot. Hardness						88	57
Conductivity	75		83	80		12.4	13.4
Alkalinity	10.8	8.4	10.8	11.0	10.6	1.0	6.4
Hot Acidity	10.6	3.8	3.2	2.4	1.8	0.353	0.038
Iron (T)	0.531	0.584	0.441	1.230	0.175		
Iron (D)					0.473	**0.475**	0.168
Manganese (T)	0.308	0.499	**0.527**	**0.549**		**0.450**	0.168
Manganese (D)	0.297		**0.477**	**0.482**	32	27	21
Sulfate (T)	<20	34	36	28			
Sulfide						<0.20	<0.20
Fluoride	<0.20		<0.20	<0.2		<1.00	<1.00
Chloride	<1.00		<1.00	<1.00		0.86	0.71
Sodium	0.77	0.71	0.63	0.40	0.66	52	52
Dis. Solids	56		<2.0	70		<2	<2
Sus. Solids	<2	12	<2.0	6	24	*<0.02*	*<0.02*
Ammonia N	<0.02		*<0.02*	*<0.02*		<0.04	<0.04
Nitrate N	<0.04		<0.04	<0.04			
Bicarbonate							<1
Turbidity	6.10		2.85	8.54			
COD							
TOC						**8.24**	6.87
Silica (T)	7.40			7.30	7.04	**7.66**	
Silica (D)							
Annual Parameters							
Aluminum (T)	0.462	0.272	**0.860**	**0.804**	0.309	**0.631**	**0.608**
Aluminum (D)	0.390		**0.267**	**0.293**		**0.321**	**0.496**
Arsenic (T)	<0.004		<0.004	**0.040**		<0.004	<0.004
Arsenic (D)	<0.004		<0.004	**<0.040**		<0.004	<0.004
Barium (T)	0.029		0.002	0.027		0.025	0.026
Barium (D)	0.028		0.002	0.026		0.025	0.025
Cadmium (T)	<0.010		<0.010	<0.010		<0.010	<0.010
Cadmium (D)	<0.010		<0.010	<0.010		<0.010	<0.010
Calcium (T)	**3.45**		**3.56**	**3.42**		**3.92**	2.34
Calcium (D)	**2.58**		**2.87**	**2.66**		**3.24**	2.34
Chromium (T)	<0.050		<0.050	<0.050		<0.050	<0.050
Chromium (D)	<0.050		<0.050	<0.050		<0.050	<0.050
Copper (T)	0.131		0.124	**0.135**		0.322	0.071
Copper (D)	0.122		0.100	**0.130**		0.309	0.071
Lead (T)	0.0036		0.0030	<0.010		0.0029	0.0022
Lead (D)	0.0025		0.0028	<0.010		0.0022	0.0022
Magnesium (T)	4.52		4.77	**5.21**		5.92	2.93
Magnesium (D)	4.44		4.77	**4.78**		5.90	2.90
Mercury (T)	<0.001		<0.001	<0.001		<0.001	<0.001
Mercury (D)	<0.001		<0.001	<0.001		<0.001	<0.001
Nickel (T)	<0.050		0.064	**0.069**		0.051	<0.050
Nickel (D)	<0.050		0.064	**<0.050**		<0.050	<0.050
Selenium (T)	0.0076		<0.007	0.0700		0.0115	**0.0074**
Selenium (D)	0.0075		<0.007	0.0700		0.0110	**0.0070**
Silver (T)							
Silver (D)						**0.417**	0.083
Zinc (T)	**0.246**		0.528	**1.070**		**0.360**	0.083
Zinc (D)	**0.161**		0.528	**0.569**		<1.00	<1.0
Potassium (T)	<1			<1.00	<1.00	<1.00	
Potassium (D)					<1.00		

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	1/26/2000	3/7/2000	3/27/2000	4/25/2000	5/24/2000	6/27/2000	7/26/2000
sample name	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2
sample ID							
location							
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP	DEP
depth							
Field pH							
Lab pH	5.1	4.8	5.1	5.1	5.1	5.0	5.0
Temperature [C]							
D.O.							
Tot. Hardness							
Conductivity	63	78	49	54	49	46	51
Alkalinity	11.8	10.4	11.2	13.6	11.0	11.0	11.8
Hot Acidity	4.0	12.4	0.8	2.0	3.8	2.0	4.2
Iron (T)	0.151		0.042	0.101	0.036	0.051	0.040
Iron (D)	0.020						
Manganese (T)	**0.262**		0.173	0.180	0.132	0.138	0.166
Manganese (D)	**0.255**		0.170	0.166	0.119	0.127	0.154
Sulfate (T)	26	23	23	<20	<20	<20	<20.0
Sulfide							
Fluoride	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloride	<1	<1	<1	1.0	1.0	<1.00	<1.0
Sodium	0.72		1.73	0.80	0.37	0.65	0.78
Dis. Solids	12	512	30	42	40	50	58
Sus. Solids	4	18	4	8	4	8	<2
Ammonia N	*<0.02*	*<0.02*	*<0.02*	<0.02	*<0.02*	*<0.02*	*<0.02*
Nitrate N	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Bicarbonate							
Turbidity	4.05	2.69	<1	<1	1.26	<1	<1
COD							
TOC							
Silica (T)	7.88		6.98	7.38	6.08	6.48	**6.81**
Silica (D)							**6.66**
Annual Parameters							
Aluminum (T)	0.494		0.455	0.675	0.435	0.475	0.458
Aluminum (D)	0.474		0.455	0.570	0.424	0.380	0.514
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium (T)	0.029		<0.010	0.028	0.022	0.023	0.025
Barium (D)	0.028		<0.010	0.026	0.021	0.022	0.025
Cadmium (T)	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (D)	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010
Calcium (T)	**3.05**		5.36	**6.76**	**3.95**	**9.88**	**6.65**
Calcium (D)	**2.52**		4.60	**2.44**	**1.89**	**1.94**	**2.09**
Chromium (T)	<0.050		<0.050	<0.050	<0.050	<0.050	<0.050
Chromium (D)	<0.050		<0.050	<0.050	<0.050	<0.050	<0.050
Copper (T)	0.117		<0.010	0.085	0.061	0.058	**0.072**
Copper (D)	0.111		<0.010	0.075	0.053	0.053	**0.066**
Lead (T)	0.0023	0.0025	**0.0016**	0.0042	0.0023	0.0031	**0.0027**
Lead (D)	0.0019	0.0024	**0.0014**	0.0021	0.0023	0.0026	**0.0026**
Magnesium (T)	3.76		3.66	2.97	2.53	2.71	**2.89**
Magnesium (D)	3.75		3.56	2.83	2.43	2.68	**2.86**
Mercury (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (T)	<0.050		<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (D)	<0.050		<0.050	<0.050	<0.050	<0.050	<0.050
Selenium (T)	0.0083	0.0079	<0.007	<0.007	<0.007	<0.007	<0.007
Selenium (D)	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Silver (T)							
Silver (D)							
Zinc (T)	**0.202**		0.071	0.078	**0.079**	0.083	**1.640**
Zinc (D)	**0.174**		0.071	0.071	**0.071**	0.083	**0.072**
Potassium (T)	1.07		<1.00	3.34	<1.00	<1.00	**1.37**
Potassium (D)							**<1.00**

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	8/22/2000	11/8/2000	3/6/2001	5/21/2001	12/4/2001	3/11/2002	5/23/2002
sample name	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2	Well 2
sample ID							
location							
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP	DEP
depth							
Field pH							
Lab pH	5.1	5.1	4.7	4.9	5.0	4.9	5.0
Temperature [C]							
D.O.							
Tot. Hardness							
Conductivity	54	56	86	71	63	66	59
Alkalinity	13.0	13.0	1.6	4.6	4.6	5.0	4.6
Hot Acidity	6.8	6.2	8.2	6.0	51.0	45.4	34.6
Iron (T)	0.041	0.094	**0.788**	0.394	1.420	1.800	0.033
Iron (D)			**0.433**	0.028	0.050	0.020	
Manganese (T)	0.158	0.207	0.448	0.252	0.190	0.200	0.175
Manganese (D)	0.158	0.204	0.441	0.209	0.160	0.180	
Sulfate (T)	<20.0	<20.0	36	32	<20	<20	<20
Sulfide							
Fluoride	<0.20	<0.20					
Chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sodium	0.73	0.73	1.10	3.25	2.02	4.10	0.74
Dis. Solids	48	92	70	64	36	82	42
Sus. Solids	20	<2	<2	<2	8	10	<2
Ammonia N	*<0.02*						
Nitrate N	<0.04	<0.04					
Bicarbonate							
Turbidity	<1	1.06					
COD							
TOC							
Silica (T)	6.36	6.70	9.20	7.53	7.23	**7.75**	
Silica (D)	6.31	6.55	9.18	7.36		**7.55**	
Annual Parameters							
Aluminum (T)	**0.450**	0.384	**0.479**	0.945	0.629	0.799	1.110
Aluminum (D)	**0.410**	0.378	**0.476**	0.526	0.397	0.484	
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Barium (T)	0.025	**0.032**					
Barium (D)	0.023	**0.026**					
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (D)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Calcium (T)	2.39	**2.94**	3.32	**34.60**	**11.10**	**28.00**	2.21
Calcium (D)	2.39	**2.43**	2.81	**3.06**	**2.41**	**2.09**	
Chromium (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chromium (D)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Copper (T)	0.067	0.082	<0.010	0.089	0.080	0.110	0.071
Copper (D)	0.067	0.074		0.059	0.070	0.080	
Lead (T)	0.0040	0.0028	**0.0025**	0.0040	0.0058	0.0059	0.0023
Lead (D)	0.0036	0.0027	**0.0024**	0.0016	0.0036	0.0018	
Magnesium (T)	2.87	3.13	4.69	3.71	3.29	3.44	2.81
Magnesium (D)	2.82	3.08	4.66	3.44	3.19	3.24	
Mercury (T)	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Nickel (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (D)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Selenium (T)	<0.007	<0.007	<0.007	**0.0096**	**0.0100**	**0.0126**	<0.007
Selenium (D)	<0.007	<0.007	<0.007	**<0.007**	**0.0080**	**0.0086**	
Silver (T)							
Silver (D)							
Zinc (T)	0.081	**0.309**	0.521	0.137	0.080	0.100	0.091
Zinc (D)	0.081	**0.103**	0.394	0.134	0.080	0.080	
Potassium (T)	<1.0	<1.00	<1.00	**3.32**	**2.13**	**3.50**	<1.00
Potassium (D)	<1.0	<1.00	<1.00	**<1.00**	**<1.00**	**<1.00**	

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	9/10/2002	11/4/2002	4/28/2003	6/3/2003	9/18/2003
sample name	Well 2	Well 2	Well 2	Well 2	Well 2
sample ID					
location					
Laboratory	DEP	DEP	DEP	DEP	DEP
depth					
Field pH					
Lab pH	4.8	4.9	4.9	5.0	5.4
Temperature [C]					
D.O.					
Tot. Hardness					
Conductivity	61	83	55	53	77
Alkalinity	3.0	3.6	3.6	3.8	6.4
Hot Acidity	55.8	64.4	33.4	31.0	39.8
Iron (T)	1.840	0.170	0.041	0.100	0.042
Iron (D)	0.388	0.121	0.021	<0.020	0.023
Manganese (T)	**0.312**	**0.325**	0.182	0.131	**0.365**
Manganese (D)	**0.306**	**0.324**	0.158	0.128	**0.364**
Sulfate (T)	45	31	30	<20	27
Sulfide					
Fluoride					
Chloride	<1.0	<1.0	<1.0	1.1	1.5
Sodium	181.00	1.20	0.74	0.96	0.81
Dis. Solids	58	64	62	52	72
Sus. Solids	18	4	<2	18	4
Ammonia N					
Nitrate N					
Bicarbonate					
Turbidity					
COD					
TOC					
Silica (T)		8.56			
Silica (D)		8.47			
Annual Parameters					
Aluminum (T)	0.615	1.230	1.090	0.641	0.211
Aluminum (D)	0.599	1.100	1.090	0.599	0.208
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004	<0.004
Barium (T)					
Barium (D)					
Cadmium (T)	<0.010	<0.010	<0.010	**0.0110**	0.0004
Cadmium (D)	<0.010	<0.010	<0.010	**<0.010**	0.0004
Calcium (T)	2.36	**9.56**	**3.22**	**3.33**	2.71
Calcium (D)	2.27	**2.99**	**2.11**	**1.91**	3.24
Chromium (T)	<0.050	<0.050	<0.050	<0.050	<0.050
Chromium (D)	<0.050	<0.050	<0.050	<0.050	<0.050
Copper (T)	0.064	0.098	**0.065**	0.065	0.200
Copper (D)	0.064	0.095	**0.064**	0.063	0.197
Lead (T)	0.0029	**0.0054**	0.0035	0.0031	0.0024
Lead (D)	0.0018	**0.0036**	0.0034	0.0031	0.0023
Magnesium (T)	**3.64**	4.24	**2.62**	2.74	4.89
Magnesium (D)	**3.54**	4.14	**2.53**	2.70	4.87
Mercury (T)	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (D)			<0.001	<0.001	<0.001
Nickel (T)	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (D)	<0.050	<0.050	<0.050	<0.050	<0.050
Selenium (T)	<0.007	<0.007	<0.007	<0.007	0.0087
Selenium (D)	<0.007	<0.007	<0.007	<0.007	0.0089
Silver (T)					
Silver (D)					
Zinc (T)	**0.382**	**1.130**	**0.516**	0.127	0.291
Zinc (D)	**0.212**	**0.189**	**0.069**	0.100	0.261
Potassium (T)	<1.00	**1.19**	<1.00	<1.0	<1.0
Potassium (D)	<1.00	**1.05**	<1.00	<1.0	<1.0

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	09/27/96	12/31/96	03/11/97	06/13/97	09/09/97	10/28/97	11/24/97
sample name	Well 3	Well 3	Well 3	Well 3	Well 3	Well 3	Well 3
sample ID	1611						
location	95						
Laboratory							
depth	1556	1568	1563.5	1560	1551	1548	1548.5
Field pH	4.5	4.2	5.1	5.1	5.1	4.2	4.2
Lab pH	4.3	3.9	5.1	5.6	5.0	3.6	3.6
Temperature [C]							
D.O.							
Tot. Hardness							
Conductivity	270	260	79	60	81	300	280
Alkalinity	<1	<1	4.0	7.0	3.0	<1	<1
Hot Acidity	102.4	164.0	162.0	82.0	34.0	60.0	144.0
Iron (T)	0.350	0.150	0.020	0.020	0.250	2.660	2.540
Iron (D)							
Manganese (T)	1.090	1.020	0.200	0.110	0.200	1.020	0.930
Manganese (D)							
Sulfate (T)	115	118	10	<1	25	118	96
Sulfide							
Fluoride	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2
Chloride	1.4	1.8	1.8	1.1	1.5	1.0	11.5
Sodium	2.70	4.86	1.60	1.03	1.02	3.02	2.85
Dis. Solids	193	157	95	94	50	170	180
Sus. Solids	2	3	<1	1	5	<1	6
Ammonia N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
Nitrate N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
Bicarbonate	<1	<1	4.00	7.00	3.00	<1	<1
Turbidity	0.50	0.61	0.70	0.49	0.26	1.60	0.68
COD	<10	<10	<10	<10	<10	<10	<10
TOC							
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)	4.310	4.810		0.161		4.400	4.130
Aluminum (D)	4.300	4.680		0.150		4.400	
Arsenic (T)	<0.02	<0.02		<0.02		<0.02	<0.02
Arsenic (D)	<0.02	<0.02		<0.02		<0.02	
Barium (T)	0.031	0.084		0.008		0.025	0.024
Barium (D)	0.031	0.047		0.008		0.025	
Cadmium (T)	<0.005	<0.005		<0.005		<0.005	<0.005
Cadmium (D)	<0.005	<0.005		<0.005		<0.005	
Calcium (T)	16.70	18.80		2.37		18.50	13.00
Calcium (D)	16.40	17.70		2.18		17.90	
Chromium (T)	<0.005	<0.005		<0.005		<0.005	<0.005
Chromium (D)	<0.005	<0.005		<0.005		<0.005	
Copper (T)	0.043	0.058		<0.005		0.050	0.027
Copper (D)	0.041	0.051		<0.005		0.050	
Lead (T)	<0.05	<0.05		<0.05		<0.05	<0.05
Lead (D)	<0.05	<0.05		<0.05		<0.05	
Magnesium (T)	7.56	7.52		4.38		7.48	6.77
Magnesium (D)	7.48	7.27		4.09		7.48	
Mercury (T)	<0.001	<0.001		<0.001		<0.0002	<0.0002
Mercury (D)	<0.001	<0.001		<0.001		<0.0002	
Nickel (T)	**0.068**	0.072		0.019		0.066	0.060
Nickel (D)	**0.067**	0.064		0.015		0.066	
Selenium (T)	<0.01	<0.01		<0.01		<0.01	<0.01
Selenium (D)	<0.01	<0.01		<0.01		<0.01	
Silver (T)	<0.005	0.016		0.010		<0.005	<0.005
Silver (D)	<0.005	0.008		<0.005		<0.005	
Zinc (T)	0.328	0.351		0.073		0.412	0.320
Zinc (D)	0.320	0.335		0.068		0.402	
Potassium (T)							
Potassium (D)							

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	03/13/98	06/29/98	08/12/98	09/15/98	10/19/98	11/24/98	02/01/99
sample name	Well 3	Well 3	Well 3	Well 3	Well 3	Well 3	Well 3
sample ID							
location							
Laboratory		PETL	DEP	DEP	DEP	DEP	DEP
depth	1569	1560					
Field pH	4.7	4.5					
Lab pH	3.9	3.8	4.0	4.0	4.1	4.1	3.7
Temperature [C]							
D.O.							
Tot. Hardness							
Conductivity	290	445	490	462	391	389	487
Alkalinity	<1	<1	2.0	2.8	3.6	3.2	0.0
Hot Acidity	90.0	56.0	58.0	46.0	50.0	50.0	66.0
Iron (T)	0.180	0.505	2.500	2.940	3.270	4.910	6.580
Iron (D)							
Manganese (T)	0.800	0.619	0.971	1.110	0.998	0.998	1.180
Manganese (D)			0.971	1.070	0.992	0.947	1.170
Sulfate (T)	140	200	25	205	138	44	129
Sulfide							
Fluoride	<2	<1	0.21	<0.20	<0.20	<0.20	<0.20
Chloride	12.5	1.5	1.0	1.0	1.0	1.0	8.0
Sodium	3.69	6.52	5.63	6.30	5.67	5.30	11.70
Dis. Solids	235	225	417	356	292	270	216
Sus. Solids	5	5	10	<2	<2	6	<2
Ammonia N	<0.2	<0.2	0.05	0.05	0.03	0.05	0.06
Nitrate N	<0.5	<1	<0.04	<0.04	<0.04	<0.04	<0.04
Bicarbonate	<1	56.00					
Turbidity	0.35	0.20	<1	<1	<1	<1	15.60
COD	<10	<10					
TOC			17.61	14.36		13.14	15.69
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)		4.000	6.720	5.460	4.430	4.020	6.740
Aluminum (D)		3.730	6.720	5.270	4.190	3.880	6.590
Arsenic (T)		<0.005	<0.004	<0.004	<0.004	<0.004	<0.040
Arsenic (D)		<0.005	<0.004	<0.004	<0.004	<0.004	<0.040
Barium (T)		0.026	0.031	0.031	0.028	**0.039**	0.027
Barium (D)		0.026	0.031	0.030	0.027	**0.027**	0.027
Cadmium (T)		<0.002	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (D)		<0.002	<0.010	<0.010	<0.010	<0.010	<0.010
Calcium (T)		53.60	55.50	48.40	34.30	32.80	30.60
Calcium (D)		51.30	55.50	46.20	34.00	32.80	30.60
Chromium (T)		<0.002	<0.050	<0.050	<0.050	<0.050	<0.050
Chromium (D)		<0.002	<0.050	<0.050	<0.050	<0.050	<0.050
Copper (T)		0.033	**0.069**	0.050	0.039	0.042	<0.044
Copper (D)		0.030	**0.050**	0.050	0.039	0.042	<0.044
Lead (T)		0.0090	<0.001	0.0140	<0.001	0.0130	0.0106
Lead (D)		0.0070	<0.001	0.0140	<0.001	0.0121	0.0101
Magnesium (T)		6.08	7.91	7.73	7.06	7.44	8.27
Magnesium (D)		5.75	7.86	7.49	6.83	7.09	8.20
Mercury (T)		<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (D)		<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (T)		0.046	0.075	0.071	0.069	0.070	0.079
Nickel (D)		0.043	0.075	0.071	0.067	0.061	0.075
Selenium (T)		<0.005	<0.007	<0.007	<0.007	<0.007	<0.070
Selenium (D)		<0.005	<0.007	<0.007	<0.007	<0.007	<0.070
Silver (T)		<0.005					
Silver (D)		<0.005					
Zinc (T)		0.293	0.433	**0.492**	0.348	0.380	0.291
Zinc (D)		0.278	0.433	**0.408**	0.344	0.380	0.291
Potassium (T)			3.11	2.94		2.30	2.00
Potassium (D)							

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	03/24/99	04/22/99	05/26/99	06/23/99	7/29/1999	8/24/1999	9/29/1999
sample name	Well 3	Well 3	Well 3	Well 3	Well 3	Well 3	Well 3
sample ID							
location							
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP	DEP
depth							
Field pH							
Lab pH	4.0	4.0		3.9	4.0	4.0	4.1
Temperature [C]							
D.O.							
Tot. Hardness					384	393	
Conductivity	361	345	401		2.2	3.2	2.8
Alkalinity	1.6	1.4		0.0	38.0	42.0	22.0
Hot Acidity	32.0	32.0	36.0	34.0	4.500	5.550	0.095
Iron (T)	0.602	0.810	2.000	2.480			
Iron (D)					0.850	1.000	0.745
Manganese (T)	0.808	0.871	0.813	0.834	0.850	0.977	
Manganese (D)	0.808	0.871	0.795		113	114	85
Sulfate (T)	129	126	143	124			
Sulfide					<0.20	<0.2	
Fluoride	<0.20	<0.20	<0.20		1.0	1.0	
Chloride	1.0	1.0	2.0	5.42	5.69	6.64	3.72
Sodium	5.49	5.20			240	324	
Dis. Solids	132	214	290	34	<2	<2	<2
Sus. Solids	28	4	<2		*0.05*	*0.07*	
Ammonia N	0.02	0.02	0.03		<0.04	<0.04	
Nitrate N	<0.04	<0.04					
Bicarbonate					8.59	2.42	
Turbidity	0.00	1.19					
COD							
TOC						11.34	9.74
Silica (T)	10.68	11.43					
Silica (D)							
Annual Parameters							
Aluminum (T)				3.300	3.350	4.190	2.230
Aluminum (D)	**3.680**	3.320	3.580		3.220	4.040	
Arsenic (T)	**3.290**	3.320	3.480		<0.004	<0.040	
Arsenic (D)	<0.004	<0.004	<0.004		<0.004	<0.040	
Barium (T)	<0.004	<0.004	<0.004		0.023	**0.026**	
Barium (D)	0.023	0.023			0.023	**0.025**	
Cadmium (T)	0.023	0.023			<0.010	<0.010	
Cadmium (D)	<0.010	<0.010	<0.010		<0.010	<0.010	
Calcium (T)	<0.010	<0.010	<0.010		30.30	33.00	
Calcium (D)	33.50	28.20			30.10	32.40	
Chromium (T)	31.50	27.40			<0.050	<0.050	
Chromium (D)	<0.050	<0.050	<0.050		<0.050	<0.050	
Copper (T)	<0.050	<0.050	<0.050		0.027	**0.037**	
Copper (D)	0.037	0.028	0.028		0.020	**0.030**	
Lead (T)	0.037	0.028	0.028		0.0100	0.0114	
Lead (D)	0.0076	0.0077	**0.0132**		0.0100	0.0114	
Magnesium (T)	0.0075	0.0075	**0.0102**		6.23	7.51	
Magnesium (D)	6.13	6.61			6.21	7.18	
Mercury (T)	6.13	6.61			<0.001	<0.001	
Mercury (D)	<0.001	<0.001	<0.001		<0.001	<0.001	
Nickel (T)	<0.001	<0.001	<0.001		0.070	**0.110**	
Nickel (D)	0.065	0.050	0.056		0.068	**0.059**	
Selenium (T)	0.065	<0.050	0.054		<0.007	<0.070	
Selenium (D)	<0.007	<0.007	<0.007		<0.007	<0.070	
Silver (T)	<0.007	<0.007	<0.007				
Silver (D)							
Zinc (T)					0.322	**1.690**	
Zinc (D)	0.248	0.253	0.284		0.322	**0.341**	
Potassium (T)	0.248	0.253	0.284			2.20	1.87
Potassium (D)	1.80	2.55					1.87

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	10/27/1999	11/23/1999	12/29/1999	1/26/2000	3/7/2000	3/27/2000	4/25/2000
sample name	Well 3	Well 3	Well 3	Well 3	Well 3	Well 3	Well 3
sample ID							
location							
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP	DEP
depth							
Field pH							
Lab pH	4.0	4.0	4.0	4.0	4.2	4.9	4.9
Temperature [C]							
D.O.							
Tot. Hardness							
Conductivity	340	333	302	288	208	89	90
Alkalinity	1.4	1.6	2.4	2.4	4.8	9.4	10.8
Hot Acidity	34.0	44.0	32.0	26.0	17.6	2.8	8.2
Iron (T)	5.330	5.050	0.159	0.100		0.152	0.061
Iron (D)				0.068			
Manganese (T)	0.899	0.879	0.877	**0.848**		0.120	**0.194**
Manganese (D)	0.849	0.879	0.877	**0.840**		0.120	**0.189**
Sulfate (T)	81	100	101	91	63	31	26
Sulfide							
Fluoride	<0.20	<0.220	<0.20	<0.20	<0.20	<0.20	<0.20
Chloride	1.0	2.0	<1.00	1.0	1.0	<1.00	2.0
Sodium	4.76	5.17	4.29	4.22		1.05	1.55
Dis. Solids	208	170	168	60	114	44	92
Sus. Solids	<2	<2	<2	18	18	4	<2
Ammonia N	*0.02*	*0.03*	*0.02*	*0.03*	*<0.02*	*<0.02*	*0.04*
Nitrate N	<0.04	<0.04	0.04	0.08	0.04	<0.04	0.05
Bicarbonate							
Turbidity	23.10	9.10	<1	1.24	<1	<1	<1
COD							
TOC						5.76	7.94
Silica (T)	9.91	11.36	11.11	11.26			
Silica (D)	9.69	11.36					
Annual Parameters							
Aluminum (T)						0.449	0.464
Aluminum (D)	3.000	2.990	2.810	**2.890**		0.449	0.438
Arsenic (T)	2.760	2.990	2.810	**2.750**		<0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium (T)	<0.004	<0.004	<0.004	<0.004	<0.004	0.022	<0.010
Barium (D)	**0.020**	0.050	0.021	0.022		0.022	<0.010
Cadmium (T)	**0.019**	0.028	0.020	0.022		<0.010	<0.010
Cadmium (D)	<0.010	<0.010	<0.010	<0.010		<0.010	<0.010
Calcium (T)	<0.010	<0.010	<0.010	<0.010		4.64	**7.81**
Calcium (D)	**29.90**	21.00	22.30	**21.60**		1.84	**5.22**
Chromium (T)	**23.30**	20.90	22.30	**20.70**		<0.050	<0.050
Chromium (D)	<0.050	<0.050	<0.050	<0.050		<0.050	<0.050
Copper (T)	<0.050	<0.050	<0.050	<0.050		0.058	<0.010
Copper (D)	0.027	0.023	0.032	**0.030**		0.058	<0.010
Lead (T)	0.024	0.023	0.032	**0.028**	**0.0063**	**0.0027**	0.0027
Lead (D)	0.0064	0.0071	0.0142	0.0111	**0.0059**	**0.0026**	0.0016
Magnesium (T)	0.0060	0.0064	0.0142	0.0108		2.53	**3.96**
Magnesium (D)	6.74	6.50	6.41	**6.39**		2.53	**3.83**
Mercury (T)	6.50	6.40	6.41	**6.36**		<0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.050	<0.050
Nickel (D)	0.058	0.051	0.070	**0.052**		<0.050	<0.050
Selenium (T)	0.052	<0.050	0.070	**<0.050**		0.0101	<0.007
Selenium (D)	<0.007	<0.007	<0.007	<0.007	<0.007	0.0096	<0.007
Silver (T)	<0.007	<0.007	<0.007	<0.007	<0.007		
Silver (D)						0.065	**0.088**
Zinc (T)	**0.346**	**0.363**	0.320	**0.290**		0.065	**0.087**
Zinc (D)	**0.248**	**0.269**	0.320	**0.286**		<1.00	<1.00
Potassium (T)	**1.64**	1.91	1.98	1.77			
Potassium (D)	**1.11**	1.91					

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	6/27/2000	7/26/2000	8/22/2000	11/8/2000	3/20/2001	5/21/2001	8/28/2001
sample name	Well 3	Well 3	Well 3	Well 3	Well 3	Well 3	Well 3
sample ID							
location	DEP	DEP	DEP	DEP	DEP	DEP	DEP
Laboratory							
depth							
Field pH	4.9	4.9	4.8	4.5	4.8	5.0	4.5
Lab pH							
Temperature [C]							
D.O.							
Tot. Hardness	97	103	122	154	149	91	137
Conductivity	8.0	9.4	8.6	7.4	2.0	2.6	0.0
Alkalinity	3.6	6.2	8.4	12.6	9.2	3.2	43.2
Hot Acidity	<0.020	0.056	<0.020	0.028	0.224	0.039	0.255
Iron (T)					0.043	0.034	0.068
Iron (D)	**0.243**	0.230	0.245	**0.320**	**0.565**	**0.247**	**0.282**
Manganese (T)	**0.215**	0.216	0.245	**0.276**	**0.546**	**0.244**	**0.280**
Manganese (D)	26	39	46	43	55	27	42
Sulfate (T)							
Sulfide	<0.20	<0.20	<0.20	<0.20	<1.0	<1.0	<1.0
Fluoride	<1.00	<1.0	1.0	<1.0	3.13	1.64	1.84
Chloride	1.59	1.98	2.17	2.84	88	86	130
Sodium	86	90	88	94	18	<2	<2
Dis. Solids	<2	<2	6	12			
Sus. Solids	<0.02	<0.02	<0.2				
Ammonia N	0.06	0.08	0.08	0.14			
Nitrate N							
Bicarbonate	<1	1.82	1.36	<1			
Turbidity							
COD							
TOC	8.13	8.37	8.13	**8.17**	7.81	**7.85**	7.90
Silica (T)		8.13	7.81	**7.75**	7.64	**7.68**	7.77
Silica (D)							
Annual Parameters							
Aluminum (T)	0.495	0.634	0.628	**1.010**	**0.811**	0.337	0.455
Aluminum (D)	0.478	0.500	0.628	**0.748**	**0.716**	0.333	0.376
Arsenic (T)	<0.004	<0.004	<0.004	<0.004		<0.004	<0.004
Arsenic (D)	<0.004	<0.04	<0.004	<0.004		<0.004	<0.004
Barium (T)	<0.010	0.011	0.012	**0.043**	<0.004		
Barium (D)	<0.010	0.010	0.012	**0.017**	<0.004		
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (D)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Calcium (T)	6.25	**9.51**	8.86	**12.60**	18.40	**6.49**	**7.02**
Calcium (D)	6.17	**6.58**	8.86	**11.30**	10.60	**5.64**	**6.25**
Chromium (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chromium (D)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Copper (T)	<0.010	<0.010	<0.010	<0.010	0.001	<0.010	**0.013**
Copper (D)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	**<0.010**
Lead (T)	0.0020	0.0002	0.0020	0.0047	0.0030	0.0016	0.0027
Lead (D)	0.0018	0.0013	0.0019	0.0044	0.0029	0.0014	0.0023
Magnesium (T)	4.22	4.38	4.16	**4.45**	4.86	**4.04**	**4.14**
Magnesium (D)	4.22	4.10	4.09	**4.23**	4.81	**3.93**	**4.09**
Mercury (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (D)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Selenium (T)	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Selenium (D)	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Silver (T)							
Silver (D)							
Zinc (T)	0.100	**0.104**	0.108	**0.232**	0.252	0.170	**0.122**
Zinc (D)	0.100	**0.101**	0.108	**0.146**	0.192	0.132	**0.102**
Potassium (T)	1.03	**1.33**	1.04	***1.54***	3.81	**1.02**	**1.24**
Potassium (D)		**1.15**	<1.00	**1.44**	3.07	**1.00**	**1.11**

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	12/4/2001	3/11/2002	5/23/2002	9/10/2002	11/4/2002	4/28/2003	6/3/2003	9/18/2003
sample name	Well 3	Well 3	Well 3	Well 3	Well 3	Well 3	Well 3	Well 3
sample ID								
location								
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP	DEP	DEP
depth						(check w/ mw 4)		
Field pH								
Lab pH	4.4	4.0	4.6	4.3	4.4	4.5	4.5	3.9
Temperature [C]								
D.O.								
Tot. Hardness	124	290	105	144	139	129	132	493
Conductivity	0.0	0.0	1.4	0.0	0.0	0.4	0.0	0.0
Alkalinity	36.6	50.8	29.6	67.0	64.2	17.2	24.0	3.8
Hot Acidity	0.380	7.730	0.067	1.330	**0.426**	**0.035**	0.072	2.750
Iron (T)	0.170	7.020		1.320	**0.269**	**0.029**	<0.020	1.690
Iron (D)	0.310	0.950	0.285	0.388	**0.354**	0.335	0.304	0.851
Manganese (T)	0.300	0.880		0.385	**0.346**	0.329	0.294	0.836
Manganese (D)	44	103	36	33	46	45	45	182
Sulfate (T)								
Sulfide								
Fluoride	1.0	1.0	<1.0	<1.0	1.2	1.3	1.5	2.9
Chloride	2.07	5.50	1.89	214.00	2.56	2.52	2.35	9.91
Sodium	58	178	6	106	122	330	100	380
Dis. Solids	8	4	<2	2	<2	<2	12	<2
Sus. Solids								
Ammonia N								
Nitrate N								
Bicarbonate								
Turbidity								
COD								
TOC								
Silica (T)	8.05	11.58			9.01			
Silica (D)		11.19			9.01			
Annual Parameters								
Aluminum (T)	0.607	2.450	0.566	**1.020**	0.824	0.761	0.714	3.010
Aluminum (D)	0.531	2.200		**1.010**	0.817	0.750	0.675	2.910
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004		<0.004	<0.004	<0.004	<0.004	<0.004
Barium (T)								
Barium (D)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	**0.0005**
Cadmium (T)	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010	**0.0004**
Cadmium (D)	**7.90**	20.40	6.36	**11.30**	**9.50**	**9.69**	8.40	51.00
Calcium (T)	**7.76**	19.90		**11.20**	**8.78**	**9.00**	8.13	49.70
Calcium (D)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chromium (T)	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050	<0.050
Chromium (D)	<0.010	0.020	<0.010	<0.010	<0.010	**0.014**	**0.010**	<0.010
Copper (T)	<0.010	0.020		<0.010	<0.010	**<0.010**	**<0.010**	<0.010
Copper (D)	0.0039	0.0044	0.0018	**0.0028**	**0.0064**	**0.0041**	0.0047	0.0043
Lead (T)	0.0032	0.0040		**0.0027**	**0.0056**	**0.0040**	0.0042	0.0041
Lead (D)	4.36	7.04	4.59	4.68	4.56	4.46	4.84	8.05
Magnesium (T)	4.30	6.68		4.56	4.52	4.37	4.66	7.92
Magnesium (D)	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (T)	<0.001	<0.001				<0.001	<0.001	<0.001
Mercury (D)	<0.050	0.060	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (T)	<0.050	0.060		<0.050	<0.050	<0.050	<0.050	<0.050
Nickel (D)	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Selenium (T)	<0.007	<0.007		<0.007	<0.007	<0.007	<0.007	<0.007
Selenium (D)								
Silver (T)								
Silver (D)	0.170	0.220	0.114	**0.408**	**0.436**	**0.328**	0.191	0.263
Zinc (T)	0.120	0.210		**0.134**	**0.131**	**0.146**	0.169	0.261
Zinc (D)	**1.43**	**1.86**	1.02	**1.46**	**1.39**	**1.32**	**1.23**	4.66
Potassium (T)	**1.37**	**1.78**		**1.44**	**1.35**	**1.26**	**1.22**	4.56
Potassium (D)								

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	09/27/96	12/31/96	03/11/97	06/13/97	09/09/97	11/24/97
sample name	Well 9	Well 9	Well 9	Well 9	Well 9	Well 9
sample ID	1606					
location	90					
Laboratory						
depth	1555	1565.5	1562	1558.5	1549	1548
Field pH	4.3	3.8	3.8	3.9	3.6	4.2
Lab pH	3.5	3.3	3.8	4.0	3.4	3.5
Temperature [C]						
D.O.						
Tot. Hardness						
Conductivity	520	400	410	460	480	500
Alkalinity	<1	<1	<1	<1	<1	<1
Hot Acidity	255.0	288.0	190.0	240.0	202.0	230.0
Iron (T)	8.170	0.720	0.230	0.240	0.160	0.840
Iron (D)						
Manganese (T)	1.810	1.260	1.700	3.200	1.600	1.200
Manganese (D)						
Sulfate (T)	300	220	210	300	230	260
Sulfide						
Fluoride	0.22	<0.2	<0.2	<0.4	<0.2	0.25
Chloride	13.4	5.0	7.0	25.0	13.7	11.0
Sodium	18.30	8.58	10.50	9.67	12.00	14.40
Dis. Solids	391	168	338	176	401	320
Sus. Solids	244	2	17	49	12	9
Ammonia N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
Nitrate N	<0.5	<0.5	<0.5	<0.5	<0.5	0.30
Bicarbonate	<1	<1	<1	<1	<1	<1
Turbidity	90.00	1.00	5.60	48.00	3.50	2.90
COD	<10	<10	<10	<10	<10	<10
TOC						
Silica (T)						
Silica (D)						
Annual Parameters						
Aluminum (T)	20.500	15.800		17.800		
Aluminum (D)	16.500	15.300		15.800		
Arsenic (T)	<0.02	<0.02		<0.02		
Arsenic (D)	<0.02	<0.02		<0.02		
Barium (T)	0.162	0.027		0.064		
Barium (D)	0.014	0.022		0.014		
Cadmium (T)	<0.005	0.007		<0.005		
Cadmium (D)	<0.005	<0.005		<0.005		
Calcium (T)	19.30	13.80		22.20		
Calcium (D)	19.20	13.30		20.20		
Chromium (T)	0.006	<0.005		<0.005		
Chromium (D)	<0.005	<0.005		<0.005		
Copper (T)	0.146	0.150		0.131		
Copper (D)	0.135	0.150		0.127		
Lead (T)	<0.05	<0.05		<0.05		
Lead (D)	<0.05	<0.05		<0.05		
Magnesium (T)	9.65	7.56		11.80		
Magnesium (D)	9.06	7.35		9.86		
Mercury (T)	<0.001	<0.001		<0.001		
Mercury (D)	<0.001	<0.001		<0.001		
Nickel (T)	0.135	0.181		0.176		
Nickel (D)	0.135	0.166		0.144		
Selenium (T)	<0.01	<0.01		<0.01		
Selenium (D)	<0.01	<0.01		<0.01		
Silver (T)	<0.005	<0.005		<0.005		
Silver (D)	<0.005	<0.005		<0.005		
Zinc (T)	0.378	0.269		0.387		
Zinc (D)	0.362	0.247		0.371		
Potassium (T)						
Potassium (D)						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	03/13/98	06/29/98	08/12/98	9/15/1998	10/19/98	11/24/98
sample name	Well 9	Well 9	Well 9	Well 9	Well 9	Well 9
sample ID					1606	
location					90	
Laboratory			DEP	DEP	DEP	DEP
depth	1568.5	1559				
Field pH	4.3	4.4				
Lab pH	3.5	3.6	3.8	3.8	3.8	3.9
Temperature [C]						
D.O.						
Tot. Hardness						469
Conductivity	460	440	510	472	454	<1
Alkalinity	<1	<1	<1	<1	<1	
Hot Acidity	244.0	272.0	128.0	110.0	116.0	
Iron (T)	0.090	3.210	0.133	0.053	0.053	
Iron (D)						
Manganese (T)	1.300	1.639	1.760	1.580	1.560	
Manganese (D)			1.740		1.560	
Sulfate (T)	290	290	193	170	173	
Sulfide						
Fluoride	<2	<1	0.30	0.21	0.25	
Chloride	20.0	8.0	8.0	6.0	5.0	6.0
Sodium	18.90	10.00	14.40	10.60	9.12	10.20
Dis. Solids	383	361	392	456	280	
Sus. Solids	7	39	36	16	<2	
Ammonia N	<0.2	<0.2	0.03	0.02	<0.02	<0.02
Nitrate N	<0.5	1.10	0.24	0.19	0.16	0.18
Bicarbonate	<1	272.00				
Turbidity	0.39	10.00	3.10	11.40	<1	<1
COD	<10	<10				
TOC			50.29	50.50		
Silica (T)						
Silica (D)						
Annual Parameters						
Aluminum (T)		16.100	19.700	17.300	16.300	
Aluminum (D)		16.100	19.300		16.300	
Arsenic (T)		<0.005	<0.004	<0.004	<0.004	<0.004
Arsenic (D)		<0.005	<0.004		<0.004	<0.004
Barium (T)		0.054	0.014	0.013	0.017	
Barium (D)		0.015	0.014		0.017	
Cadmium (T)		<0.002	<0.010	<0.010	<0.010	
Cadmium (D)		<0.002	<0.010		<0.010	
Calcium (T)		17.90	24.40	19.10	20.40	20.20
Calcium (D)		16.50	24.40		20.40	20.20
Chromium (T)		0.004	<0.050	<0.050	<0.050	
Chromium (D)		<0.002	<0.050		<0.050	
Copper (T)		0.141	0.159	0.144	0.166	
Copper (D)		0.138	0.159		0.166	
Lead (T)		0.0100	<0.001	<0.001	<0.001	**0.0129**
Lead (D)		0.0070	<0.001		<0.001	**0.0128**
Magnesium (T)		8.49	9.50	8.36	8.39	9.16
Magnesium (D)		8.35	9.50		8.39	9.15
Mercury (T)		<0.0002	<0.001	<0.001	<0.001	
Mercury (D)		<0.0002	<0.001	<0.001	<0.001	
Nickel (T)		0.166	0.144	0.130	0.162	
Nickel (D)		0.164	0.144		0.162	
Selenium (T)		<0.005	<0.007	<0.007	<0.007	<0.007
Selenium (D)		<0.005	<0.007		<0.007	<0.007
Silver (T)		<0.005	0.462			
Silver (D)		<0.005		0.326	**0.395**	
Zinc (T)		0.356	**0.462**		**0.330**	
Zinc (D)		0.339	**0.397**			2.87
Potassium (T)			2.75	2.45		
Potassium (D)						

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	02/01/99	03/24/99	04/22/99	05/26/99	06/23/99	7/29/1999
sample name	Well 9	Well 9	Well 9	Well 9	Well 9	Well 9
sample ID	1606	1606	1606	1606		
location	90	90	90	90		
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP
depth						
Field pH						
Lab pH	3.9	3.7	3.7	3.8	3.7	3.8
Temperature [C]						
D.O.						
Tot. Hardness						532
Conductivity	542	393	388	480	<1	<1
Alkalinity	<1	<1	<1	<1	138.0	142.0
Hot Acidity	110.0	114.0	112.0	130.0	0.109	0.069
Iron (T)	0.120	0.103	0.351	0.163		
Iron (D)					1.960	**1.960**
Manganese (T)	2.530	1.100	1.230	1.750		**1.760**
Manganese (D)	2.530	1.070	1.180	1.750	270	189
Sulfate (T)	140	102	137	190		
Sulfide						<0.20
Fluoride	0.33	0.22	0.24	0.29		8.0
Chloride	17.0	2.0	2.0	6.0	15.60	13.30
Sodium	21.10	4.68	3.56	12.30		406
Dis. Solids	352	332	344	382	24	14
Sus. Solids	<2	48	4	8		*<0.02*
Ammonia N	<0.02	<0.02	<0.02	<0.02		0.24
Nitrate N	0.11	0.06	0.07	0.19		
Bicarbonate						2.33
Turbidity	1.58	10.70	4.25	11.50		
COD						
TOC	41.94	57.14	62.70	52.00		
Silica (T)						
Silica (D)						
Annual Parameters					23.500	21.200
Aluminum (T)	17.100	16.200	16.300	21.000		21.200
Aluminum (D)	15.600	15.300	15.400	20.200		<0.004
Arsenic (T)	<0.040	<0.004	<0.004	<0.004		<0.004
Arsenic (D)	<0.040	<0.004	<0.004	<0.004		**0.014**
Barium (T)	0.015	0.013	0.016	0.015		**0.011**
Barium (D)	0.015	0.013	0.014	0.015		<0.010
Cadmium (T)	<0.010	<0.010	<0.010	<0.010		<0.010
Cadmium (D)	<0.010	<0.010	<0.010	<0.010		**24.90**
Calcium (T)	24.10	**15.10**	9.52	21.40		**23.40**
Calcium (D)	22.60	**11.20**	9.52	21.40		<0.050
Chromium (T)	<0.050	<0.050	<0.050	<0.050		<0.050
Chromium (D)	<0.050	<0.050	<0.050	<0.050		0.145
Copper (T)	0.139	0.129	0.145	0.166		0.135
Copper (D)	0.139	0.127	0.142	0.166		0.0056
Lead (T)	<0.010	0.0161	0.0065	0.0091		0.0056
Lead (D)	<0.010	0.0146	0.0060	0.0089		**9.75**
Magnesium (T)	10.90	6.51	7.86	9.12		**8.78**
Magnesium (D)	10.90	6.36	7.60	9.12		<0.001
Mercury (T)	<0.001	<0.001	<0.001	<0.001		<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001		**0.179**
Nickel (T)	0.139	0.171	0.195	0.164		**0.137**
Nickel (D)	0.139	0.170	0.187	0.163		<0.007
Selenium (T)	<0.070	<0.007	<0.007	<0.007		<0.007
Selenium (D)	<0.070	<0.007	<0.007	<0.007		
Silver (T)						**0.464**
Silver (D)						**0.363**
Zinc (T)	0.433	0.210	**0.263**	0.424		
Zinc (D)	0.433	0.203	**0.231**	0.424		
Potassium (T)	2.69	1.93	2.38	2.85		
Potassium (D)						

Data from the NEPCO site

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T = total concentration, D = dissolved concentration

sample date	8/24/1999	9/29/1999	10/27/1999	12/29/1999	1/26/2000	3/7/2000
sample name	Well 9	Well 9	Well 9	Well 9	Well 9	Well 9
sample ID						
location	DEP	DEP	DEP	DEP	DEP	DEP
Laboratory						
depth						
Field pH	3.8	3.7	3.8	3.8	3.8	3.8
Lab pH						
Temperature [C]						
D.O.						
Tot. Hardness	527		534	444	473	448
Conductivity	<1	<1	<1	<1	<1	<1
Alkalinity	144.0	116.0	134.0	124.0	140.0	128.0
Hot Acidity	0.121	1.070	0.325	0.100	**0.108**	
Iron (T)					**0.075**	
Iron (D)	1.990	1.650	1.910	1.610	1.590	
Manganese (T)	1.980		1.820	1.610	1.520	
Manganese (D)	172	126	210	176	179	155
Sulfate (T)						
Sulfide	<0.2		0.31	0.28	0.30	0.26
Fluoride	7.0		8.0	2.0	4.0	4.0
Chloride	14.10	9.20	12.80	7.94	6.48	
Sodium	460		436	400	366	388
Dis. Solids	20	20	8	64	<2	66
Sus. Solids	*<0.02*		*<0.02*	*<0.02*	*<0.02*	*<0.02*
Ammonia N	<0.04		0.26	0.11	0.15	<0.04
Nitrate N						
Bicarbonate	10.20		2.10	12.20	2.00	21.80
Turbidity					2.57	
COD						
TOC	47.94	55.85	59.28	58.85	71.05	
Silica (T)			54.99			
Silica (D)						
Annual Parameters						
Aluminum (T)	21.000	19.200	21.800	18.500	21.900	
Aluminum (D)	20.900		19.900	17.300	21.600	
Arsenic (T)	<0.040		<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.040		<0.004	<0.004	<0.004	<0.004
Barium (T)	**0.016**		0.017	0.015	0.015	
Barium (D)	**0.015**		0.016	0.014	0.015	
Cadmium (T)	<0.010		<0.010	<0.010	<0.010	
Cadmium (D)	<0.010		<0.010	<0.010	<0.010	
Calcium (T)	**22.40**		**23.30**	16.30	**15.50**	
Calcium (D)	**22.00**		**22.80**	16.10	**15.30**	
Chromium (T)	<0.050		<0.050	<0.050	<0.050	
Chromium (D)	<0.050		<0.050	<0.050	<0.050	
Copper (T)	**0.173**		0.155	0.156	0.159	
Copper (D)	**0.171**		0.149	0.150	0.155	
Lead (T)	**0.0107**		0.0101	0.0141	**0.0034**	0.0104
Lead (D)	**0.0106**		0.0097	0.0141	**0.0031**	0.0102
Magnesium (T)	**10.80**		10.30	8.98	9.38	
Magnesium (D)	**10.70**		9.77	8.98	9.03	
Mercury (T)	<0.001		<0.001	<0.001	<0.001	<0.001
Mercury (D)	<0.001		<0.001	<0.001	<0.001	<0.001
Nickel (T)	**0.183**		0.171	0.190	0.184	
Nickel (D)	**0.161**		0.157	0.190	0.165	
Selenium (T)	<0.070		<0.007	<0.007	<0.007	<0.007
Selenium (D)	<0.070		<0.007	<0.007	<0.007	<0.007
Silver (T)						
Silver (D)						
Zinc (T)	**0.655**		**0.444**	0.338	0.302	
Zinc (D)	**0.427**		**0.375**	0.338	0.295	
Potassium (T)	3.01	2.64	2.43	2.82	2.84	
Potassium (D)		2.64	2.43			

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	3/27/2000	4/25/2000	5/24/2000	6/27/2000	7/26/2000	8/22/2000	11/8/2000	3/20/2001
sample name	Well 9	Well 9	Well 9	Well 9	Well 9	Well 9	Well 9	Well 9
sample ID								
location	DEP	DEP	DEP	DEP	DEP	DEP	DEP	DEP
Laboratory								
depth								
Field pH	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8
Lab pH								
Temperature [C]								
D.O.								
Tot. Hardness	397	420	399	415	384	446	464	433
Conductivity	<1	<1	<1	<1	<1	<1	<1	<1
Alkalinity	118.8	110.0	112.0	104.0		112.0	112.0	5.2
Hot Acidity	0.135	0.200	0.189	0.523		0.053	0.066	0.253
Iron (T)								0.216
Iron (D)	1.830	1.460	1.530	1.510		**1.560**	1.760	1.550
Manganese (T)	1.830	1.440	1.460	1.440		**1.510**	1.720	1.530
Manganese (D)	139	137	112	105	129	155	138	122
Sulfate (T)								
Sulfide	0.23	0.23	<0.20	0.23	0.25	0.24	0.31	
Fluoride	2.0	5.0	3.0	4.0	3.0	4.0	5.0	3.0
Chloride	10.00	5.29	7.53	7.06	7.09	9.70	10.20	8.09
Sodium	382	374	350	384	380	318	350	374
Dis. Solids	20	12	20	26	6	26	10	12
Sus. Solids	*<0.02*	<0.02	*<0.02*	*<0.02*	*<0.02*	*<0.02*		
Ammonia N	0.06	0.06	0.08	0.11	0.10	0.17	0.18	
Nitrate N								
Bicarbonate	1.28	1.45	2.16	6.46		8.57	3.59	
Turbidity								
COD					45.37	37.88	44.08	59.92
TOC	62.06	77.49	65.91	63.56		35.52	49.22	52.00
Silica (T)								
Silica (D)								
Annual Parameters								
Aluminum (T)	16.800	17.200	18.600	15.200		17.400	18.200	17.700
Aluminum (D)	16.800	17.000	17.500	14.700		16.100	17.300	16.000
Arsenic (T)	<0.004	<0.004	<0.004	<0.004		<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004		<0.004	<0.004	<0.004
Barium (T)	0.015	0.017	0.015	0.019		0.014	0.014	
Barium (D)	0.015	0.015	0.013	0.013		0.013	0.014	
Cadmium (T)	<0.010	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010
Cadmium (D)	<0.010	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010
Calcium (T)	20.00	**13.40**	17.10	**17.60**	**14.80**	**21.20**	**21.20**	17.70
Calcium (D)	15.60	**13.20**	16.20	**15.90**	**14.10**	**18.90**	**20.70**	15.40
Chromium (T)	<0.050	<0.050	<0.050	<0.050		<0.050	<0.050	<0.050
Chromium (D)	<0.050	<0.050	<0.050	<0.050		<0.050	<0.050	<0.050
Copper (T)	0.140	0.162	**0.154**	0.127		0.153	0.147	0.152
Copper (D)	0.138	0.159	**0.137**	0.123		0.153	0.146	0.152
Lead (T)	0.0065	0.0167	0.0171	0.0114		0.0037	**0.0073**	**0.0082**
Lead (D)	0.0062	0.0167	0.0163	0.0108		0.0035	**0.0072**	**0.0080**
Magnesium (T)	9.16	8.42	8.19	7.85	6.79	8.27	8.96	8.44
Magnesium (D)	9.16	8.36	7.74	7.69	6.85	8.05	8.79	8.27
Mercury (T)	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
Nickel (T)	0.176	0.194	0.156	0.152		0.147	**0.156**	0.169
Nickel (D)	0.175	0.191	0.150	0.150		0.139	**0.155**	0.167
Selenium (T)	0.0073	<0.007	<0.007	<0.007		<0.007	<0.007	
Selenium (D)	0.0071	<0.007	<0.007	<0.007		<0.007	<0.007	
Silver (T)								
Silver (D)						0.366	**0.422**	0.419
Zinc (T)	0.299	**0.286**	**0.321**	0.274		0.366	**0.349**	0.331
Zinc (D)	0.286	**0.285**	**0.299**	0.269	**2.86**	2.86	**2.78**	2.53
Potassium (T)	3.00	35.80	2.50	2.53	**2.73**	2.86	**2.68**	2.42
Potassium (D)								

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	5/21/2001	8/28/2001	12/4/2001	3/11/2002	5/23/2002	9/10/2002	11/4/2002	4/28/2003
sample name	Well 9	Well 9	Well 9	Well 9	Well 9	Well 9	Well 9	Well 9
sample ID								
location								
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP	DEP	DEP
depth								
Field pH								
Lab pH	3.8	3.8	3.8	3.7	3.8	3.7	3.7	3.7
Temperature [C]								
D.O.								
Tot. Hardness								
Conductivity	417	448	442	503	396	482	453	389
Alkalinity	<1	<1	<1	<1	0.0	0.0	0.0	0.0
Hot Acidity	112.0	158.8	151.0	171.0	174.2	179.8	13.6	145.0
Iron (T)	0.616	0.419	0.310	1.460		**0.134**	0.787	**0.090**
Iron (D)	0.103	0.054	0.080	0.730		**0.107**	0.596	**0.070**
Manganese (T)	1.280	1.830	1.780	1.990		**1.790**	0.156	1.210
Manganese (D)	1.240	1.760	1.680	1.950		**1.780**	0.156	1.210
Sulfate (T)	128	158	199	199	153	183	202	166
Sulfide								
Fluoride								
Chloride	3.0	4.0	4.0	5.0	2.0	4.9	2.7	1.8
Sodium	5.72	8.53	7.59	10.70	7.12	228.00	5.80	3.54
Dis. Solids	406	442	354	390	406	426	400	388
Sus. Solids	<2	<2	12	58	<2	18	8	<2
Ammonia N								
Nitrate N								
Bicarbonate								
Turbidity								
COD								
TOC							73.19	
Silica (T)	73.19	60.13	56.28	58.64			63.13	
Silica (D)	67.41	56.71		55.00				
Annual Parameters								
Aluminum (T)	15.200	1.950	17.700	21.500		19.100	19.800	15.500
Aluminum (D)	13.700	1.810	16.800	20.000		19.100	18.900	14.800
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004		<0.004	<0.004	<0.004
Barium (T)								
Barium (D)								
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (D)	<0.010	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010
Calcium (T)	**14.00**	21.30	18.00	**23.10**	15.70	20.90	**16.00**	**14.40**
Calcium (D)	**13.90**	20.90	17.80	**22.80**		20.90	**15.10**	**13.30**
Chromium (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chromium (D)	<0.050	<0.050	<0.050	<0.050		<0.050	<0.050	<0.050
Copper (T)	0.159	0.159	0.160	0.160		**0.149**	0.154	0.157
Copper (D)	0.157	0.160	0.150	0.150		**0.148**	0.154	0.154
Lead (T)	0.0104	0.0057	0.0041	0.0095	0.0050	**0.0052**	**0.0103**	0.0159
Lead (D)	0.0095	0.0057	0.0040	0.0080		**0.0050**	**0.0095**	0.0157
Magnesium (T)	7.17	9.17	9.43	10.30	9.43	9.30	9.00	7.44
Magnesium (D)	7.14	8.87	9.09	10.20		9.22	8.97	7.43
Mercury (T)	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001				<0.001
Nickel (T)	0.172	0.155	0.170	0.180		**0.148**	0.199	0.186
Nickel (D)	0.161	0.148	0.160	0.170		**0.147**	0.192	0.185
Selenium (T)	<0.007	<0.007	<0.007	<0.007	<0.07	<0.007	<0.007	<0.007
Selenium (D)	<0.007	<0.007	<0.007	<0.007		<0.007	<0.007	<0.007
Silver (T)								
Silver (D)								
Zinc (T)	**0.307**	**0.382**		0.400		**0.506**	0.693	**0.367**
Zinc (D)	**0.269**	**0.353**	0.340	0.400		**0.389**	0.340	**0.279**
Potassium (T)	2.79	2.77	2.48	2.85	2.73	**2.81**	2.85	**2.80**
Potassium (D)	2.67	2.67	2.40	2.69		**2.73**	2.83	**2.83**

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	12/4/2001	03/11/02	9/10/2002	11/4/2002	4/28/2003	6/3/2003	9/18/2003
sample name	Culm						
sample ID	Buck Mtn. DEP	Buck Mountain DEP	Buck Mountain DEP	Buck Mountain DEP	Buck Mountain DEP (check w/mw 3)	Buck Mountain DEP	Buck Mountain DEP
location							
Laboratory							
depth							
Field pH	3.9	3.4	3.9	3.8	3.3	3.3	3.9
Lab pH							
Temperature [C]							
D.O.							
Tot. Hardness	650	611	424	428	505	518	486
Conductivity	0	<1	0	0	0	0	0
Alkalinity	148	114.4	97.4	100	88.8	117.2	12.2
Hot Acidity	38.8	7.000	18.2	**8.86**	1.4	0.552	18.6
Iron (T)	36.6	6.270	17.8	**8.82**	1.34	0.501	17.2
Iron (D)	29.1	**2.480**	1.56	**1.63**	1.59	1.566	1.66
Manganese (T)	28.5	**2.440**	1.53	**1.59**	1.52	1.482	1.6
Manganese (D)	265	216	127.8	158.2	165.6	171.4	192.2
Sulfate (T)							
Sulfide							
Fluoride	<1	<1.0	<1.00	1.3	1.1	1.3	1.6
Chloride	4.26	5.14	3.22	5.26	4.92	4.999	5.51
Sodium	532	516	340	356	352	288	492
Dis. Solids	10	2	<2	4	2	20	<2
Sus. Solids							
Ammonia N							
Nitrate N							
Bicarbonate							
Turbidity							
COD							
TOC	33.38	**31.46**		**20.993**			
Silica (T)		**29.53**		**19.581**			
Silica (D)							
Annual Parameters							
Aluminum (T)	13.9	**12.700**	6.63	**7.12**	6.7	7.002	7.51
Aluminum (D)	13.9	**12.000**	6.59	**7**	6.37	6.534	7.23
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium (T)							
Barium (D)							
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	0.0100	0.0009
Cadmium (D)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.0009
Calcium (T)	43.4	35.00	23.7	26	**24.6**	24.8	30.8
Calcium (D)	41.8	34.00	23.1	25.6	**23.8**	23.8	30.7
Chromium (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chromium (D)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Copper (T)	0.07	**0.050**	**0.017**	0.013	0.018	0.014	0.015
Copper (D)	0.07	**0.040**	**<0.010**	0.013	0.014	0.014	0.015
Lead (T)	0.013	0.0317	0.0154	0.033	0.015	0.0155	0.0102
Lead (D)	0.0125	0.0286	0.0153	0.0324	0.015	0.0154	0.0101
Magnesium (T)	18.8	17.10	10.5	**10.5**	10.8	11	11.7
Magnesium (D)	18.2	16.90	10.3	**10.1**	10.3	10.6	11.3
Mercury (T)	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001			<0.001	<0.001	<0.001
Nickel (T)	0.18	**0.160**	**0.099**	0.103	0.097	0.093	**0.098**
Nickel (D)	0.18	**0.150**	**0.098**	0.094	0.095	0.085	**0.096**
Selenium (T)	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Selenium (D)	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Silver (T)							
Silver (D)							
Zinc (T)	0.63	**0.620**	**0.573**	**0.906**	**0.518**	0.489	**0.415**
Zinc (D)	0.62	**0.610**	**0.398**	**0.442**	**0.416**	0.446	**0.404**
Potassium (T)	2.70	**2.25**	**2.02**	2.37	**1.97**	1.946	2.26
Potassium (D)	2.66	**2.00**	**1.96**	2.13	**1.96**	1.884	2.26

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	08/14/89	11/10/89	02/17/90	05/14/90	08/27/90	11/29/90	02/24/91
sample name	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook
sample ID							
location							
Laboratory							
depth							
Field pH	3.8	3.6	3.2	3.7	4.0	3.8	3.6
Lab pH							
Temperature [C]	9	9	9	9	9	9	9
D.O.	3.1	3	3.2	3.8	3.6	4	4.2
Tot. Hardness	64	82.6	75.2	60.2	74.4	68.2	59.4
Conductivity	250	340	330	250	290	270	255
Alkalinity	<1	<1	<1	<1	<1	<1	<1
Hot Acidity	63.0	83.6	70.2	62.0	64.6	65.2	59.2
Iron (T)	8.400	10.450	8.800	3.100	8.500	7.500	3.600
Iron (D)							
Manganese (T)	1.100	1.500	1.200	0.750	0.950	0.900	0.950
Manganese (D)							
Sulfate (T)	103	115	104	110	115	105	94
Sulfide			0	0	0	0	0
Fluoride	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Chloride	10.5	11.3	19.0	20.0	5.0	7.5	10.0
Sodium				5.50	5.50	10.00	
Dis. Solids	153	200	217	158	188	162	133
Sus. Solids	1	10	3	4	3	2	<1
Ammonia N	0.11	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrate N	0.26	11.60	6.32	<0.5	<0.5	<0.5	<0.5
Bicarbonate							
Turbidity	1.56	1.25	1.10	1.20	1.30	1.00	0.95
COD	<10	40.00	<10	25.00	<10	<10	<10
TOC							
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)	5.150	5.300	0.950	1.400	5.000	5.000	3.150
Aluminum (D)							
Arsenic (T)	<0.001	0.010	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic (D)							
Barium (T)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Barium (D)							
Cadmium (T)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005
Cadmium (D)							
Calcium (T)	4.80	4.10	4.60	0.40	0.70	0.60	2.40
Calcium (D)							
Chromium (T)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium (D)							
Copper (T)	<0.02	0.020	0.050	0.020	<0.02	<0.02	<0.02
Copper (D)							
Lead (T)	<0.05	0.1000	0.4000	<0.05	0.3000	<0.05	<0.05
Lead (D)							
Magnesium (T)	2.40	7.30	6.50	4.10	3.00	4.50	3.00
Magnesium (D)							
Mercury (T)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Mercury (D)							
Nickel (T)	<0.04	0.050	0.060	0.020	<0.04	0.150	<0.04
Nickel (D)							
Selenium (T)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium (D)							
Silver (T)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver (D)							
Zinc (T)	0.180	0.400	0.230	0.230	0.150	0.150	0.150
Zinc (D)							
Potassium (T)				0.90	0.65	1.00	
Potassium (D)							

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	05/24/91	08/23/91	11/18/91	02/21/92	05/19/92	08/31/92	11/20/92
sample name	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook
sample ID							
location							
Laboratory							
depth							
Field pH	4.2	4.6	4.6	4.5	4.3	3.9	4.0
Lab pH							
Temperature [C]	9	9	9	9	9.5	9	9
D.O.	3.6	3.4	1.6	<1	<1	1.4	<1
Tot. Hardness	58.8	86.8	125	119.8	77.2	72.4	76.8
Conductivity	260	310	395	355	310	290	310
Alkalinity	<1	<1	<1	<1	<1	<1	<1
Hot Acidity	96.2	101.0	108.2	98.0	62.2	64.2	65.0
Iron (T)	5.880	14.000	14.000	11.000	12.000	15.600	9.600
Iron (D)							
Manganese (T)	0.900	1.260	1.470	1.500	1.160	1.750	1.230
Manganese (D)							
Sulfate (T)	110	137	129	135	89	37	120
Sulfide	0	0	0	0	0	0	1
Fluoride				<0.2			0.22
Chloride	11.5	15.0	12.0	13.5	20.0	12.0	14.0
Sodium	10.00				12.00		
Dis. Solids	154	204	284	210	180	205	215
Sus. Solids	<1	1	6	<1	<1	<1	<1
Ammonia N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrate N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bicarbonate							
Turbidity	0.75	0.65	0.62	0.82	0.76	0.50	0.68
COD	<10	<10	10.00	<10	<10	<10	<10
TOC							
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)	1.000	5.000	12.000	5.000	4.600	6.700	4.800
Aluminum (D)							
Arsenic (T)	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	<0.001
Arsenic (D)							
Barium (T)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Barium (D)							
Cadmium (T)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium (D)							
Calcium (T)	0.33	7.50	1.00	0.45	7.00	3.20	8.60
Calcium (D)							
Chromium (T)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium (D)							
Copper (T)	<0.02	0.020	<0.02	<0.02	<0.02	0.030	<0.02
Copper (D)							
Lead (T)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Lead (D)							
Magnesium (T)	9.80	5.00	6.29	9.50	5.80	7.80	6.90
Magnesium (D)							
Mercury (T)	<0.0002	<0.0002	0.001	<0.0002	<0.0002	<0.0002	<0.0002
Mercury (D)							
Nickel (T)	<0.04	0.150	<0.04	0.060	<0.04	0.080	<0.04
Nickel (D)							
Selenium (T)	<0.002	<0.002	<0.002	<0.002	<0.002	0.0600	<0.002
Selenium (D)							
Silver (T)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver (D)							
Zinc (T)	0.160	0.180	0.280	0.320	0.200	0.370	0.190
Zinc (D)							
Potassium (T)	1.13				1.30		
Potassium (D)							

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	03/01/93	06/07/93	09/14/93	11/16/93	03/15/94	05/27/94	08/15/94
sample name	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook
sample ID							
location							
Laboratory	PETL	PETL	PETL	PETL			
depth							
Field pH	4.3	4.0	4.2	4.1	3.6	3.9	4.4
Lab pH						3.6	4.0
Temperature [C]	9	9	9	9	9	9	9
D.O.	<1	<1	<1	<1	<1	<1	<1
Tot. Hardness	66.6	67.8	102.2	114	96	87.2	74
Conductivity	310	260	310	325	350	295	290
Alkalinity	<1	<1	<1	<1	<1	<1	<1
Hot Acidity	47.0	39.8	82.6	116.6	90.4	88.1	102.6
Iron (T)	8.400	5.400	12.300	13.300	2.580	7.240	8.780
Iron (D)							
Manganese (T)	1.250	1.120	1.590	1.400	1.040	1.360	1.380
Manganese (D)							
Sulfate (T)	95	42	130	125	84	72	82
Sulfide	0	0	0	0	0	0	0
Fluoride	<0.2	<0.2	<0.2	<0.4	0.10	<0.2	<0.2
Chloride	13.5	12.0	11.2	14.8	31.9	23.6	13.5
Sodium		8.05				11.90	9.40
Dis. Solids	165	145	160	172	190	198	250
Sus. Solids	2	4	<1	<1	<1	7	<1
Ammonia N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5
Nitrate N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5
Bicarbonate						<1	<1
Turbidity	0.52	0.45	0.48	0.24	0.90	5.70	4.60
COD	14.00	<10	<10	<5	<10	<10	<10
TOC							
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)	3.500	4.400	1.150	5.310	3.730	3.740	4.430
Aluminum (D)							
Arsenic (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.05
Arsenic (D)							
Barium (T)	<0.1	<0.1	<0.1	<0.1	<0.1	0.059	0.041
Barium (D)							
Cadmium (T)	<0.005	<0.005	0.001	<0.001	<0.001	0.007	0.013
Cadmium (D)							
Calcium (T)	12.80	8.95	10.70	11.00	12.80	9.24	13.40
Calcium (D)							
Chromium (T)	<0.05	<0.05	0.001	<0.001	<0.001	0.022	0.012
Chromium (D)							
Copper (T)	0.020	0.020	<0.01	<0.02	0.050	0.084	0.076
Copper (D)							
Lead (T)	<0.05	0.0010	0.0020	<0.001	<0.001	0.0120	0.0080
Lead (D)							
Magnesium (T)	7.10	5.60	9.18	7.50	6.51	6.61	7.69
Magnesium (D)							
Mercury (T)	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Mercury (D)							
Nickel (T)	0.080	<0.04	0.040	0.070	<0.05	0.086	0.083
Nickel (D)							
Selenium (T)	<0.002	<0.002	<0.002	<0.002	0.1100	0.2600	0.0700
Selenium (D)							
Silver (T)	<0.01	<0.01	<0.01	<0.045	<0.01	0.064	0.041
Silver (D)							
Zinc (T)	0.225	0.300	0.310	0.320	0.170	0.300	0.350
Zinc (D)							
Potassium (T)						2.33	
Potassium (D)		1.14					

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	11/21/94	02/20/95	06/06/95	08/25/95	11/14/95	02/19/96	05/01/96
sample name	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook
sample ID							DEP
location							
Laboratory							
depth							
Field pH	4.9	4.3	4.1	4.4	4.3	3.9	3.8
Lab pH	4.4	4.0	3.5	3.5	3.6	3.6	
Temperature [C]	9	9	9	9	9	9	
D.O.	5.93	<1	<1	<1	<1	<1	
Tot. Hardness		76	78.4	88	87.8	78	
Conductivity	310	350	380	310	320	310	<1
Alkalinity	<1	<1	<1	<1	<1	<1	50.0
Hot Acidity	81.6	114.6	170.0	140.0	126.0	115.0	2.700
Iron (T)	10.700	6.860	5.000	1.240	0.850	0.490	
Iron (D)							1.230
Manganese (T)	1.120	1.000	2.020	1.480	1.400	1.400	
Manganese (D)							88
Sulfate (T)	125	89	116	130	94	96	
Sulfide	0	0	<0.1		<0.1	<0.1	
Fluoride	<0.2	<0.2	0.21	<0.2	<0.2	<0.2	
Chloride	29.7	19.2	25.0	17.5	16.3	2.0	14.10
Sodium	10.70	14.10	11.20	11.70	11.20	13.90	
Dis. Solids	210	165	190	155	158	181	<3
Sus. Solids	<1	<1	<1	<1	<1	4	
Ammonia N	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Nitrate N	<0.5	<0.5	2.51	<0.5	<0.5	<0.5	
Bicarbonate	1.00	<1	<1	<1	<1	<1	
Turbidity	0.40	0.36	0.28	0.53	0.64	2.50	
COD	<10	<10	<10	<10	<10	<10	
TOC							
Silica (T)							
Silica (D)							
Annual Parameters							4.620
Aluminum (T)	4.370	3.670	3.720	4.590	4.930	8.960	
Aluminum (D)			3.720				
Arsenic (T)	0.002	<0.05	<0.05	<0.02	<0.02	<0.02	
Arsenic (D)			<0.05				
Barium (T)	0.034	<0.1	<0.1	0.024	0.027	0.032	
Barium (D)			<0.10				
Cadmium (T)	<0.002	<0.01	0.001	<0.001	0.001	0.002	
Cadmium (D)			0.001				
Calcium (T)	13.20	12.80	12.30	16.80	16.40	21.60	
Calcium (D)			10.70				
Chromium (T)	<0.005	<0.05	0.008	<0.001	<0.001	<0.001	
Chromium (D)			<0.001				
Copper (T)	0.064	0.021	0.024	0.030	0.080	0.080	
Copper (D)			<0.02				
Lead (T)	0.0090	0.0060	0.0103	0.0060	0.0060	<0.002	
Lead (D)			0.0100				
Magnesium (T)	6.89	6.57	6.76	7.38	8.09	6.54	
Magnesium (D)			6.76				
Mercury (T)	<0.0002	<0.0002	<0.0002	0.001	<0.001	<0.001	
Mercury (D)			<0.0002				
Nickel (T)	0.052	<0.05	0.110	0.064	0.069	0.059	
Nickel (D)			0.063				
Selenium (T)	<0.01	<0.05	<0.05	0.0220	<0.01	<0.01	
Selenium (D)			<0.05				
Silver (T)	<0.01	<0.12	<0.01	<0.01	<0.005	0.018	
Silver (D)			<0.01				
Zinc (T)	0.330	0.290	0.300	0.227	0.251	0.275	
Zinc (D)			0.260				
Potassium (T)			1.13				
Potassium (D)							

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	05/14/96	06/13/96	09/10/96	09/30/96	10/31/96	11/19/96	11/26/96
sample name	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook
sample ID							
location		DEP		DEP			DEP
Laboratory							
depth							
Field pH	4.0	4.1	3.9	4.1	4.2	4.6	4.3
Lab pH	3.7		3.4			3.5	
Temperature [C]	9		10			9	
D.O.	<1		<1			<1	
Tot. Hardness	82		88			88	
Conductivity	340		310	389	390	340	350
Alkalinity	<1	4.2	<1	3.6	4.8	<1	8.8
Hot Acidity	164.2	64.0	145.0	74.0	58.0	118.0	5.8
Iron (T)	1.500	5.490	1.420	10.710	11.300	1.260	8.990
Iron (D)							
Manganese (T)	1.680	1.320	0.840	1.400	1.480	1.000	1.300
Manganese (D)							
Sulfate (T)	140	96	172	67	74	138	66
Sulfide	<0.1		<0.1			<0.2	
Fluoride	<0.2		<0.2			17.0	11.0
Chloride	25.0		21.0	9.0	16.0	12.70	9.57
Sodium	15.60	12.20	9.54	8.31	13.90	196	200
Dis. Solids	169		180	298	598	4	12
Sus. Solids	1	<3	<1	<2	<2	<0.5	
Ammonia N	<0.5		<0.5			<0.5	
Nitrate N	<0.5		<0.5			<1	
Bicarbonate	<1		<1			0.92	
Turbidity	0.37		0.82			<10	
COD	<10		<10				
TOC							
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)	4.440	4.760	1.520	4.520	5.170	3.000	4.590
Aluminum (D)	4.380					<0.02	
Arsenic (T)	<0.02		<0.02				
Arsenic (D)	<0.02					0.027	
Barium (T)	0.031		0.029				
Barium (D)	0.031					0.000	
Cadmium (T)	<0.005		<0.005				
Cadmium (D)	<0.005					18.00	12.90
Calcium (T)	12.20		16.00	16.20	13.80		
Calcium (D)	12.10					0.003	
Chromium (T)	<0.005		<0.005				
Chromium (D)	<0.005					0.050	
Copper (T)	0.020		0.040				
Copper (D)	0.180					<0.002	
Lead (T)	<0.05		<0.002				
Lead (D)	<0.05					7.18	7.26
Magnesium (T)	6.91		7.50	7.64	7.50		
Magnesium (D)	6.80					<0.001	
Mercury (T)	<0.001		<0.001				
Mercury (D)	<0.001					0.064	
Nickel (T)	0.066		0.067				
Nickel (D)	0.063					<0.01	
Selenium (T)	<0.01		<0.01				
Selenium (D)	<0.01					<0.05	
Silver (T)	<0.005		<0.05				
Silver (D)	<0.005					0.228	0.182
Zinc (T)	0.263		0.840	0.247	0.246		
Zinc (D)	0.255						1.46
Potassium (T)	1.34			1.55	1.56		
Potassium (D)							

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	12/27/96	01/30/97	03/11/97	03/29/97	04/29/97	05/14/97	05/31/97
sample name	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook
sample ID							
location	DEP	DEP		DEP	DEP	DEP	DEP
Laboratory							
depth							
Field pH			3.9		4.0		
Lab pH	4.0	4.0	3.8	3.9	4.2	4.1	4.1
Temperature [C]			10				
D.O.			<1				
Tot. Hardness			100				370
Conductivity	280	321	455	370	380	3.8	4.0
Alkalinity	3.0	1.6	<1	<1	6.6	62.0	68.0
Hot Acidity	42.0	58.0	64.0	60.0	68.0	6.210	8.140
Iron (T)	1.040	3.300	1.100	6.020	7.170		
Iron (D)						1.240	1.450
Manganese (T)	1.160	11.500	1.430	1.420	1.370		
Manganese (D)						126	74
Sulfate (T)	107	56	132	62	89		
Sulfide			<0.1				
Fluoride			<0.2				19.0
Chloride	10.0	12.0	21.5	22.0	19.0	14.70	16.12
Sodium	10.50	10.70	15.50	17.20	15.70		232
Dis. Solids	160	176	179	216	252	<3	4
Sus. Solids	<2	2	1	6	<2		
Ammonia N			<0.5				
Nitrate N			<0.5				
Bicarbonate			<1				
Turbidity			1.20				
COD			<10				
TOC							
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)	4.580	4.690	4.900	4.950	4.720	4.540	5.000
Aluminum (D)							
Arsenic (T)			<0.02				
Arsenic (D)							
Barium (T)			0.029				
Barium (D)							
Cadmium (T)			0.001				
Cadmium (D)							16.80
Calcium (T)	13.60	16.60	20.80	17.00	17.40		
Calcium (D)							
Chromium (T)			<0.001				
Chromium (D)							
Copper (T)			0.100				
Copper (D)							
Lead (T)			<0.002				
Lead (D)							7.91
Magnesium (T)	6.50	7.93	7.21	7.90	7.60		
Magnesium (D)							
Mercury (T)			<0.0002				
Mercury (D)							
Nickel (T)			0.063				
Nickel (D)							
Selenium (T)			<0.01				
Selenium (D)							
Silver (T)			<0.005				
Silver (D)							0.269
Zinc (T)	0.264	0.333	0.290	0.274	0.258		
Zinc (D)							1.35
Potassium (T)	1.82	1.73		1.85	1.33		
Potassium (D)							

Data from the NEPCO site

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T = total concentration, D = dissolved concentration

sample date	06/13/97	06/28/97	07/19/97	08/23/97	09/09/97	09/13/97	10/28/97
sample name	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook
sample ID							
location	DEP	DEP	DEP	DEP	DEP	DEP	DEP
Laboratory							
depth							
Field pH	4.3	4.1	4.1	4.0	4.5	4.1	4.5
Lab pH	3.8			4.0	3.8		3.6
Temperature [C]	10				10		
D.O.	<1				<1		
Tot. Hardness	100				114		
Conductivity	400	349	341	374	395	412	400
Alkalinity	<1	4.4	3.8	2.8	<1	6.2	<1
Hot Acidity	184.0	66.0	60.0	88.0	160.0		52.0
Iron (T)	1.120	9.340	10.100	14.200	1.570	16.300	14.800
Iron (D)							
Manganese (T)	1.400	1.610	1.560	1.670	1.600	2.010	1.670
Manganese (D)							
Sulfate (T)	148	82	86	54	144	104	132
Sulfide	<0.1				<0.1		
Fluoride	<0.4				<0.2		<0.2
Chloride	19.3	16.0	14.0	11.0	15.5	13.0	17.5
Sodium	14.40	13.20	14.50	10.70	11.80	11.70	1.11
Dis. Solids	100	212	296	330	293	172	267
Sus. Solids	<1	8	<2	<2	<1	10	3
Ammonia N	<0.5				<0.5		<0.5
Nitrate N	<0.5				<0.5		<0.5
Bicarbonate	<1				<1		<1
Turbidity	0.57				0.27		5.20
COD	10.00				<10		<10
TOC							
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)	4.850	5.080	5.430	6.360	1.520	7.480	6.670
Aluminum (D)	4.750				<0.02		<0.02
Arsenic (T)	<0.02						
Arsenic (D)	<0.02				0.028		0.027
Barium (T)	0.028						
Barium (D)	0.028				0.001		<0.005
Cadmium (T)	0.001						
Cadmium (D)	0.001			19.40	20.80	19.80	22.40
Calcium (T)	16.20	15.00					
Calcium (D)	15.50				<0.001		<0.005
Chromium (T)	<0.001						
Chromium (D)	<0.001				0.080		<0.005
Copper (T)	0.008						
Copper (D)	0.006				<0.002		<0.05
Lead (T)	<0.05						
Lead (D)	<0.05	8.17	8.41	9.70	9.50	11.90	9.17
Magnesium (T)	8.26						
Magnesium (D)	7.88				0.001		<0.0002
Mercury (T)	<0.001						
Mercury (D)	<0.001				0.088		0.081
Nickel (T)	0.072						
Nickel (D)	0.067				<0.01		<0.01
Selenium (T)	<0.01						
Selenium (D)	<0.01				<0.005		<0.005
Silver (T)	<0.005						
Silver (D)	<0.005				0.308	0.362	0.291
Zinc (T)	0.267	0.261	0.242	0.302			
Zinc (D)	0.255					1.43	
Potassium (T)	1.49	1.57	1.68	1.54			
Potassium (D)							

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
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T = total concentration, D = dissolved concentration

sample date	10/25/97	11/15/97	11/24/97	12/20/97	01/24/98	02/21/98	03/13/98
sample name	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook
sample ID							
location	DEP	DEP	DEP	DEP	DEP	DEP	DEP
Laboratory							
depth							
Field pH	4.5	4.2	4.7	4.1	4.0	3.8	4.6
Lab pH	4.1		3.1				3.7
Temperature [C]			9				9
D.O.			<1				<1
Tot. Hardness			122				
Conductivity	409	407	490	388	417	439	420
Alkalinity	7.2	6.6	<1	3.6	5.0	<1	<1
Hot Acidity	82.0	90.0	130.0	80.0	68.0	60.0	180.0
Iron (T)	15.100	16.000	14.700	19.400	9.100	9.170	2.920
Iron (D)							
Manganese (T)	1.780	1.890	1.730	1.900	1.510	1.500	1.800
Manganese (D)							
Sulfate (T)	71	67	148	84	62	72	156
Sulfide			<0.1				<0.1
Fluoride			<0.2				<2
Chloride	17.0	14.0	17.0	19.0	31.0	38.0	47.5
Sodium	13.00	11.90	12.00	16.20	20.50	25.00	24.10
Dis. Solids	266	290	314	282	228	268	258
Sus. Solids	28	12	1	<2	10	10	2
Ammonia N			<0.2				<0.2
Nitrate N			<0.2				<0.5
Bicarbonate			<1				<1
Turbidity			0.26				6.20
COD			<10				<10
TOC							
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)	6.890	7.180	6.970	6.530	4.660	5.280	1.560
Aluminum (D)			6.760				<0.005
Arsenic (T)			<0.02				
Arsenic (D)							0.031
Barium (T)			0.027				<0.002
Barium (D)							
Cadmium (T)			<0.005				20.00
Cadmium (D)	14.70	15.50	15.00	18.40	14.50	13.90	
Calcium (T)							<0.002
Calcium (D)			<0.005				
Chromium (T)							0.180
Chromium (D)			<0.005				
Copper (T)							<0.002
Copper (D)			<0.05				
Lead (T)							8.26
Lead (D)	9.21	9.72	9.00	9.83	7.89	8.19	
Magnesium (T)							<0.0002
Magnesium (D)			<0.0002				
Mercury (T)							0.067
Mercury (D)			0.080				
Nickel (T)							<0.005
Nickel (D)			<0.01				
Selenium (T)							<0.005
Selenium (D)			<0.005				
Silver (T)							0.244
Silver (D)	0.302	0.328	0.300	0.309	0.235	0.223	
Zinc (T)							
Zinc (D)				2.45	1.48	1.29	
Potassium (T)	1.42	1.60					
Potassium (D)							

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	03/21/98	04/25/98	05/16/98	06/05/98	06/20/98	07/18/98	08/12/98
sample name	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook
sample ID							
location							
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP	DEP
depth							
Field pH				4.4			
Lab pH	3.8	3.9	3.8	3.9	4.0	4.0	4.3
Temperature [C]							
D.O.							
Tot. Hardness							443
Conductivity	416	430	421	425	423	440	6.2
Alkalinity	<1	<1		<1	2.8	2.0	78.0
Hot Acidity	54.0	54.0	56.0	138.0	54.0	62.0	17.700
Iron (T)	9.520	8.100	9.270	1.360	10.200	12.500	
Iron (D)							1.640
Manganese (T)	1.500	1.400	1.490	1.400	1.400	1.480	1.640
Manganese (D)							193
Sulfate (T)	82	89	112	156	114	117	
Sulfide							0.30
Fluoride				<2			9.0
Chloride	24.0	29.0	24.0	34.0	13.0	10.0	9.85
Sodium	20.40	21.40	19.00	16.10	12.60	11.40	268
Dis. Solids	246	296	230	275	294	308	<2
Sus. Solids	10	16	2	<1	8	6	0.09
Ammonia N				<0.2			<0.04
Nitrate N				<0.2			
Bicarbonate				<1			<1
Turbidity				0.32			
COD				<10			
TOC							15.96
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)	5.140	4.830	4.810	4.260	4.910	5.550	6.810
Aluminum (D)							6.810
Arsenic (T)				<0.005			<0.004
Arsenic (D)							<0.004
Barium (T)				0.028			0.028
Barium (D)							0.028
Cadmium (T)				<0.002			<0.010
Cadmium (D)							<0.010
Calcium (T)	16.40	19.30	18.80	18.30	22.10	24.20	27.00
Calcium (D)							27.00
Chromium (T)				<0.002			<0.050
Chromium (D)							<0.050
Copper (T)				0.006			**0.023**
Copper (D)							**<0.010**
Lead (T)				0.0060			<0.001
Lead (D)							<0.001
Magnesium (T)	8.37	7.84	8.20	7.21	7.61	8.55	9.60
Magnesium (D)							9.60
Mercury (T)				<0.0002			<0.001
Mercury (D)							<0.001
Nickel (T)				0.060			0.091
Nickel (D)							0.091
Selenium (T)				<0.005			<0.007
Selenium (D)							<0.007
Silver (T)				<0.005			
Silver (D)							
Zinc (T)	0.247	0.236	0.236	0.235	0.239	0.252	0.295
Zinc (D)							0.295
Potassium (T)	<0.50	1.71	1.77		1.85	1.83	1.84
Potassium (D)							

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	08/22/98	09/15/98	09/26/98	10/14/98	10/24/98	11/17/98	02/01/99
sample name	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook
sample ID							
location	DEP	DEP	DEP	DEP	DEP	DEP	DEP
Laboratory							
depth							
Field pH	4.2	3.8	3.9	4.2	4.3	4.2	3.8
Lab pH							
Temperature [C]							
D.O.							
Tot. Hardness	486	508	521	488	492	482	424
Conductivity	6.6	<1	<1	5.8	6.6	5.2	0.0
Alkalinity	84.0	88.0	92.0	94.0	96.0	96.0	48.0
Hot Acidity	18.600	19.900	20.200	21.600	21.600	24.800	5.040
Iron (T)							
Iron (D)	1.790	7.850	1.990	1.840	2.140	2.040	1.180
Manganese (T)		1.820				1.970	1.140
Manganese (D)	153	183	165	195	137	171	109
Sulfate (T)							
Sulfide		<0.20		<0.20		0.21	<0.20
Fluoride	9.0	9.0	10.0	10.0	13.0	12.0	29.0
Chloride	10.80	10.10	11.50	10.30	11.40	12.10	23.40
Sodium	388		456	352	342	346	186
Dis. Solids	6		20	10	<2	<2	4
Sus. Solids		0.08		0.12		0.10	0.05
Ammonia N				<0.04		<0.04	<0.04
Nitrate N							
Bicarbonate		6.00		<1		<1	17.30
Turbidity							
COD				16.61			11.43
TOC							
Silica (T)							
Silica (D)							
Annual Parameters							
Aluminum (T)	8.060	8.490	8.840	8.400	8.920	8.230	4.360
Aluminum (D)		8.360				7.890	4.200
Arsenic (T)		<0.004		<0.004		<0.040	<0.040
Arsenic (D)		<0.004				<0.040	<0.040
Barium (T)		0.029		0.028		0.037	0.033
Barium (D)		0.029				0.027	0.031
Cadmium (T)		<0.010		<0.010		<0.010	<0.010
Cadmium (D)		<0.010				<0.010	<0.010
Calcium (T)	24.70	32.60	27.00	30.80	25.60	26.60	16.60
Calcium (D)		32.60				25.80	16.00
Chromium (T)		<0.050		<0.050		<0.050	<0.050
Chromium (D)		<0.050				<0.050	<0.050
Copper (T)		**0.101**		<0.010		<0.010	**0.060**
Copper (D)		**<0.010**				<0.010	**0.018**
Lead (T)		**0.0078**		0.0066		<0.010	**0.0116**
Lead (D)		**0.0058**		0.0057		<0.010	**0.0109**
Magnesium (T)	10.50	11.80	11.50	10.20	11.90	12.50	6.90
Magnesium (D)		11.80				12.20	6.80
Mercury (T)		<0.001		<0.001		<0.001	<0.001
Mercury (D)		<0.001				<0.001	<0.001
Nickel (T)		0.106		0.095		0.106	0.066
Nickel (D)		0.099				0.100	0.060
Selenium (T)		<0.007		<0.007		<0.070	<0.070
Selenium (D)		<0.007				<0.070	<0.070
Silver (T)							
Silver (D)							
Zinc (T)	0.303	**0.386**	0.319	**0.391**	0.344	3.410	**0.278**
Zinc (D)		**0.289**		**0.329**		0.314	**0.222**
Potassium (T)	1.95		1.88	1.94	2.25		1.34
Potassium (D)							

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	04/22/99	05/26/99	06/30/99	7/29/1999	8/11/1999	10/27/1999	11/23/1999
sample name	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook
sample ID							
location							
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP	DEP
depth							
Field pH							
Lab pH	4.1	4.1	4.2	4.2	4.2	4.2	4.2
Temperature [C]							
D.O.							
Tot. Hardness							
Conductivity	480	474		487	489	499	512
Alkalinity	3.6	3.8	4.8	5.4	5.4	5.6	5.0
Hot Acidity	56.0	66.0	64.0	74.0	80.0	82.0	80.0
Iron (T)	14.800	15.800	17.400	17.200	19.600	23.100	22.000
Iron (D)			16.200				
Manganese (T)	1.590	1.490	1.600	1.540	1.580	2.010	1.770
Manganese (D)	1.590	1.480	1.460	1.450	1.580	1.870	1.750
Sulfate (T)	109	151	131	149	172	156	140
Sulfide							
Fluoride	<0.20	<0.20		<0.020	<0.2	<0.20	<0.20
Chloride	31.0	27.0		18.0	15.0	19.0	19.0
Sodium	22.10	19.00	15.90	14.70	13.90	16.50	15.90
Dis. Solids	254	232		360	292	370	298
Sus. Solids	8	<2	8	<2	<2	<2	<2
Ammonia N	0.08	0.09		*0.09*	*0.10*	*0.08*	*0.14*
Nitrate N	<0.04	<0.04		<0.04	<0.04	<0.04	<0.04
Bicarbonate							
Turbidity	2.45	5.88		<1	1.07	2.12	7.40
COD							
TOC						13.94	13.29
Silica (T)	12.97	12.31	13.33			13.27	13.18
Silica (D)							
Annual Parameters							
Aluminum (T)	4.590	4.880	5.400	5.890	6.380	7.420	5.760
Aluminum (D)	4.590	4.880	4.860	5.440	5.750	5.980	5.610
Arsenic (T)	<0.004	<0.004		<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004		<0.004	<0.004	<0.004	<0.004
Barium (T)	0.030	0.028		0.026	0.027	**0.032**	0.028
Barium (D)	0.030	0.028		0.026	0.027	**0.030**	0.028
Cadmium (T)	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010
Cadmium (D)	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010
Calcium (T)	19.30	23.20		27.00	**37.70**	**44.80**	27.70
Calcium (D)	19.30	23.20		25.20	**27.00**	**31.30**	27.70
Chromium (T)	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050
Chromium (D)	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050
Copper (T)	<0.010	<0.010		<0.010	<0.010	**0.011**	<0.010
Copper (D)	<0.010	<0.010		<0.010	<0.010	**<0.010**	<0.010
Lead (T)	0.0054	0.0052		0.0063	0.0054	0.0060	**0.0062**
Lead (D)	<0.001	0.0052		0.0063	0.0054	0.0046	**0.0057**
Magnesium (T)	8.49	8.10		8.33	8.84	12.10	9.43
Magnesium (D)	8.49	8.10		7.90	8.84	11.40	9.10
Mercury (T)	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
Nickel (T)	0.073	0.070		0.088	0.097	0.104	0.079
Nickel (D)	0.073	0.070		0.079	0.089	0.098	0.079
Selenium (T)	<0.007	<0.007		<0.007	<0.007	<0.007	<0.007
Selenium (D)	<0.007	<0.007		<0.007	<0.007	<0.070	<0.007
Silver (T)							
Silver (D)							
Zinc (T)	0.247	0.259		0.272	**0.335**	0.318	**0.785**
Zinc (D)	0.247	0.259		0.272	**0.267**	0.315	**0.262**
Potassium (T)	1.59	1.80	**2.57**			2.66	1.91
Potassium (D)			**2.00**			2.42	1.91

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	12/29/1999	1/26/2000	3/7/2000	3/27/2000	4/25/2000	5/24/2000	6/27/2000
sample name	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook
sample ID							
location							
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP	DEP
depth							
Field pH							
Lab pH	4.3	4.3	3.6	4.1	4.2	4.0	4.1
Temperature [C]							
D.O.							
Tot. Hardness							
Conductivity	438	431	520	479	422	459	429
Alkalinity	7.6	7.0	0.0	3.8	6.8	1.8	3.6
Hot Acidity		68.0	64.0	58.6	50.0	52.0	52.0
Iron (T)	19.600	19.900		15.600	14.600	13.900	10.000
Iron (D)		19.900					
Manganese (T)	1.640	1.670		1.410	1.280	1.320	1.330
Manganese (D)	1.560	1.610		1.370	1.280	1.320	1.260
Sulfate (T)	149	131	125	111	114	110	104
Sulfide							
Fluoride	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloride	16.0	15.0	18.0	32.0	18.0	19.0	18.0
Sodium	16.10	13.90		23.40	18.30	17.90	16.80
Dis. Solids	326	230	250	278	260	262	322
Sus. Solids	<2	16	12	26	18	16	<2
Ammonia N	*0.09*	*0.09*	*0.07*	*0.08*	*<0.02*	*0.08*	*0.06*
Nitrate N	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Bicarbonate							
Turbidity		<1	3.31	4.26	3.97	14.70	1.38
COD							
TOC							
Silica (T)	13.03	13.57		11.53	11.17	11.53	12.26
Silica (D)							
Annual Parameters							
Aluminum (T)		4.930		4.100	3.430	**3.960**	4.290
Aluminum (D)		4.740		3.920	3.340	**3.940**	4.020
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium (T)	**0.025**	0.026		0.026	0.025	0.026	0.025
Barium (D)	**0.024**	0.026		0.026	0.025	0.026	0.024
Cadmium (T)	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010
Cadmium (D)	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010
Calcium (T)	22.00	**22.20**		22.20	20.20	23.20	25.10
Calcium (D)	22.00	**21.70**		22.20	19.90	22.80	24.40
Chromium (T)	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050
Chromium (D)	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050
Copper (T)	<0.010	**0.019**		<0.010	0.031	<0.010	<0.010
Copper (D)	<0.010	**0.010**		<0.010	0.026	<0.010	<0.010
Lead (T)	0.0053	0.0048	**0.0056**	0.0045	0.0092	0.0043	**0.0041**
Lead (D)	0.0047	0.0047	**0.0050**	0.0043	0.0044	0.0043	**0.0042**
Magnesium (T)	8.78	9.10		**7.45**	7.38	7.45	7.72
Magnesium (D)	8.36	8.81		**4.30**	7.38	7.42	7.37
Mercury (T)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (D)		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (T)		0.083		0.068	0.067	**0.056**	0.064
Nickel (D)	0.077	0.070		0.068	0.067	**0.053**	0.059
Selenium (T)		<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Selenium (D)		<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Silver (T)							
Silver (D)							
Zinc (T)		**0.237**		0.196	0.211	**0.237**	0.200
Zinc (D)		**0.230**		0.196	0.211	**0.220**	0.194
Potassium (T)	1.40	2.16		1.67	1.83	1.68	1.88
Potassium (D)							

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	7/26/2000	8/22/2000	11/8/2000	3/3/2001	5/21/2001	8/28/2001
sample name	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook
sample ID						
location						
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP
depth						
Field pH						
Lab pH	4.3	4.3	4.2	4.3	4.2	4.3
Temperature [C]						
D.O.						
Tot. Hardness						
Conductivity	419	498	626	525	517	574
Alkalinity	6.8	7.2	7.0	0.0	0.0	0.0
Hot Acidity	54.0	76.0	102.0	80.0	64.0	95.6
Iron (T)	14.200	16.100	23.000	19.700	18.200	23.000
Iron (D)				18.900	17.500	21.900
Manganese (T)	1.350	1.460	1.950	1.610	1.540	1.810
Manganese (D)	1.350	1.380	1.720	1.680	1.510	1.790
Sulfate (T)	136	166	208	177	117	200
Sulfide						
Fluoride	<0.20	<0.20	0.21			
Chloride	10.0	10.0	10.0	18.0	26.0	17.0
Sodium	12.50	12.60	15.10	18.80	22.80	21.20
Dis. Solids	330	344	474	394	352	842
Sus. Solids	<2	<2	<2	<2	4	<2
Ammonia N	*0.07*	*0.09*				
Nitrate N	<0.04	<0.04	<0.04			
Bicarbonate						
Turbidity	6.45	<1	1.06			
COD						
TOC						
Silica (T)	**13.44**	15.79	17.95	14.15	12.18	16.09
Silica (D)	**13.35**	15.24	16.01	13.50	12.07	15.81
Annual Parameters						
Aluminum (T)	**4.600**	6.390	9.350	5.860	4.470	8.400
Aluminum (D)	**4.410**	6.810	10.600	5.640	4.350	7.050
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium (T)	0.025	0.003	**0.052**			
Barium (D)	0.024	0.003	**0.034**			
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (D)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Calcium (T)	**27.60**	38.40	48.30	59.10	31.30	53.70
Calcium (D)	**27.20**	37.00	45.10	33.60	30.20	51.30
Chromium (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chromium (D)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Copper (T)	<0.010	<0.010	0.010	<0.010	0.013	<0.010
Copper (D)	<0.010	<0.010	0.010		<0.010	<0.010
Lead (T)	**0.0046**	**0.0051**	**0.0075**	0.0052	**0.0049**	**0.0053**
Lead (D)	**0.0045**	**0.0050**	**0.0072**	0.0050	**0.0047**	**0.0051**
Magnesium (T)	**7.95**	8.83	10.70	9.22	8.46	9.75
Magnesium (D)	**7.92**	8.43	9.60	8.85	8.28	9.56
Mercury (T)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel (T)	**0.066**	0.075	0.095	0.079	**0.067**	0.083
Nickel (D)	**0.062**	0.085	0.100	0.076	**0.065**	0.081
Selenium (T)	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Selenium (D)	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Silver (T)						
Silver (D)						
Zinc (T)	**0.220**	0.243	**0.552**	**0.405**	**0.349**	**0.388**
Zinc (D)	**0.218**	0.249	**0.516**	**0.385**	**0.240**	**0.279**
Potassium (T)	**2.42**	2.81	3.69	2.77	**2.54**	**3.76**
Potassium (D)	**2.23**	2.64	3.27	2.65	**2.40**	**3.73**

Data from the NEPCO site

all concentrations reported in mg/L except for conductivity (µS/cm) and turbidity (ntu)
bold = dissolved and total concentrations initially reversed by the lab, italics = sample not fixed properly
T = total concentration, D = dissolved concentration

sample date	12/4/2001	3/11/2002	5/23/2002	9/10/2002	11/4/2002	4/28/2003	6/3/2003
sample name	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook	Silverbrook
sample ID							
location							
Laboratory	DEP	DEP	DEP	DEP	DEP	DEP	DEP
depth							
Field pH							
Lab pH	4.2	4.1	3.8	4.1	4.3	3.5	3.9
Temperature [C]							
D.O.							
Tot. Hardness							
Conductivity	567	526	548	602	569	570	536
Alkalinity	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hot Acidity	105.8	96.4	18.8 (not hot?)	117.6	118.4	76.0	80.2
Iron (T)	22.500	22.200	16.500	**21.100**	23.400	1.690	8.656
Iron (D)	22.100	21.700		**19.400**	23.300	1.590	8.432
Manganese (T)	1.890	1.880	1.820	1.600	**1.980**	1.700	1.468
Manganese (D)	1.840	1.860		1.590	**1.930**	1.630	1.438
Sulfate (T)	239	181	125	202	210	165	178
Sulfide							
Fluoride							
Chloride	12.0	19.0	38.0	11.3	19.5	35.9	24.3
Sodium	16.30	20.10	29.00	232.00	20.60	29.60	23.10
Dis. Solids	448	356	324	506	480	342	344
Sus. Solids	<2	8	18	10	8	<2	6
Ammonia N							
Nitrate N							
Bicarbonate							
Turbidity							
COD							
TOC							
Silica (T)	16.58				**16.26**		
Silica (D)					**16.11**		
Annual Parameters							
Aluminum (T)	7.930	**5.500**	5.250	7.980	7.050	6.960	5.996
Aluminum (D)	7.910	**5.450**		7.860	6.980	6.640	5.875
Arsenic (T)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Arsenic (D)	<0.004	<0.004		<0.004	<0.004	<0.004	<0.004
Barium (T)							
Barium (D)							
Cadmium (T)	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium (D)	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010
Calcium (T)	43.40	32.90	25.70	**56.10**	**42.80**	**30.00**	38.70
Calcium (D)	42.90	32.70		**51.10**	**42.30**	**29.60**	37.50
Chromium (T)	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chromium (D)	<0.050	<0.050		<0.050	<0.050	<0.050	<0.050
Copper (T)	<0.010	<0.010	<0.010	<0.010	<0.010	**0.050**	0.014
Copper (D)	<0.010	<0.010		<0.010	<0.010	**0.023**	<0.010
Lead (T)	0.0054	0.0043	0.0053	**4.5780**	0.0058	0.0077	0.0051
Lead (D)	0.0054	0.0040		**4.5450**	0.0049	0.0077	0.0050
Magnesium (T)	10.60	9.91	9.88	9.64	**10.50**	9.51	9.48
Magnesium (D)	10.40	9.88		9.62	**10.40**	9.01	9.20
Mercury (T)			<0.001	<0.001	<0.001	<0.001	<0.001
Mercury (D)	<0.001	<0.001				<0.001	<0.001
Nickel (T)	0.100	0.090	0.082	0.089	0.099	**0.080**	0.071
Nickel (D)	0.100	0.080		0.082	0.095	**0.078**	0.070
Selenium (T)	0.0070	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Selenium (D)	0.0070	<0.007		<0.007	<0.007	<0.007	<0.007
Silver (T)							
Silver (D)							
Zinc (T)	**0.680**	**0.280**	0.248	**0.925**	**1.160**	**0.881**	0.333
Zinc (D)	**0.290**	**0.260**		**0.272**	**0.284**	**0.280**	0.329
Potassium (T)	3.54	**2.68**	2.42	**4.63**	**3.93**	**3.49**	3.24
Potassium (D)	3.54	**2.69**		**4.59**	**3.49**	**2.85**	3.20