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Resource Assessment Service  
Maryland Geological Survey  
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ADMINISTRATIVE REPORT  
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WATER-QUALITY DATA FROM NETWORK WELLS  
USED TO MONITOR BRACKISH-WATER INTRUSION  
OF THE AQUIA AQUIFER, KENT ISLAND,  
QUEEN ANNE'S COUNTY, MARYLAND

DATA COLLECTED THROUGH 2017

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Prepared in cooperation with the  
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## Summary of water-quality monitoring on Kent Island through 2017

The Maryland Geological Survey is currently monitoring a network of domestic wells and observation wells on Kent Island in Queen Anne's County, Maryland. The purpose of the monitoring program is to determine trends in chloride concentrations and specific conductivities in ground water from the Aquia aquifer associated with brackish-water intrusion from the Chesapeake Bay. Drummond (1988) described brackish-water intrusion on Kent Island, and included discussions of distribution, source, and changes with time of brackish water.

A monitoring network was established in 1986 based on wells sampled in Drummond (1988) and was initially sampled annually or semiannually since then. Beginning in 2015, the wells have been sampled every two years. This report presents data from the monitoring program. Table 1 provides a summary of chloride concentrations from selected residential wells for quick reference. Table 2 lists site and construction data for wells in the network. Table 3 lists data for pH, specific conductance, temperature, and dissolved chloride, and dissolved bromide of water collected from network wells from 1982 through 2017. Graphs showing changes in specific conductance and chloride concentration are shown for each well in the monitoring network that was sampled in 2017. Regression lines are also shown for chloride concentrations for wells with more than 10 samples. Field chloride measurements are shown where laboratory measurements are unavailable, but were not used in computing the regression lines.

Thirteen observation and 18 residential/commercial wells in the monitoring network were sampled in August and September 2017. Samples have been analyzed by Microbac Laboratories, Inc., beginning in 2015; prior to that, samples were analyzed by the U.S. Geological Survey National Water Quality Laboratory.

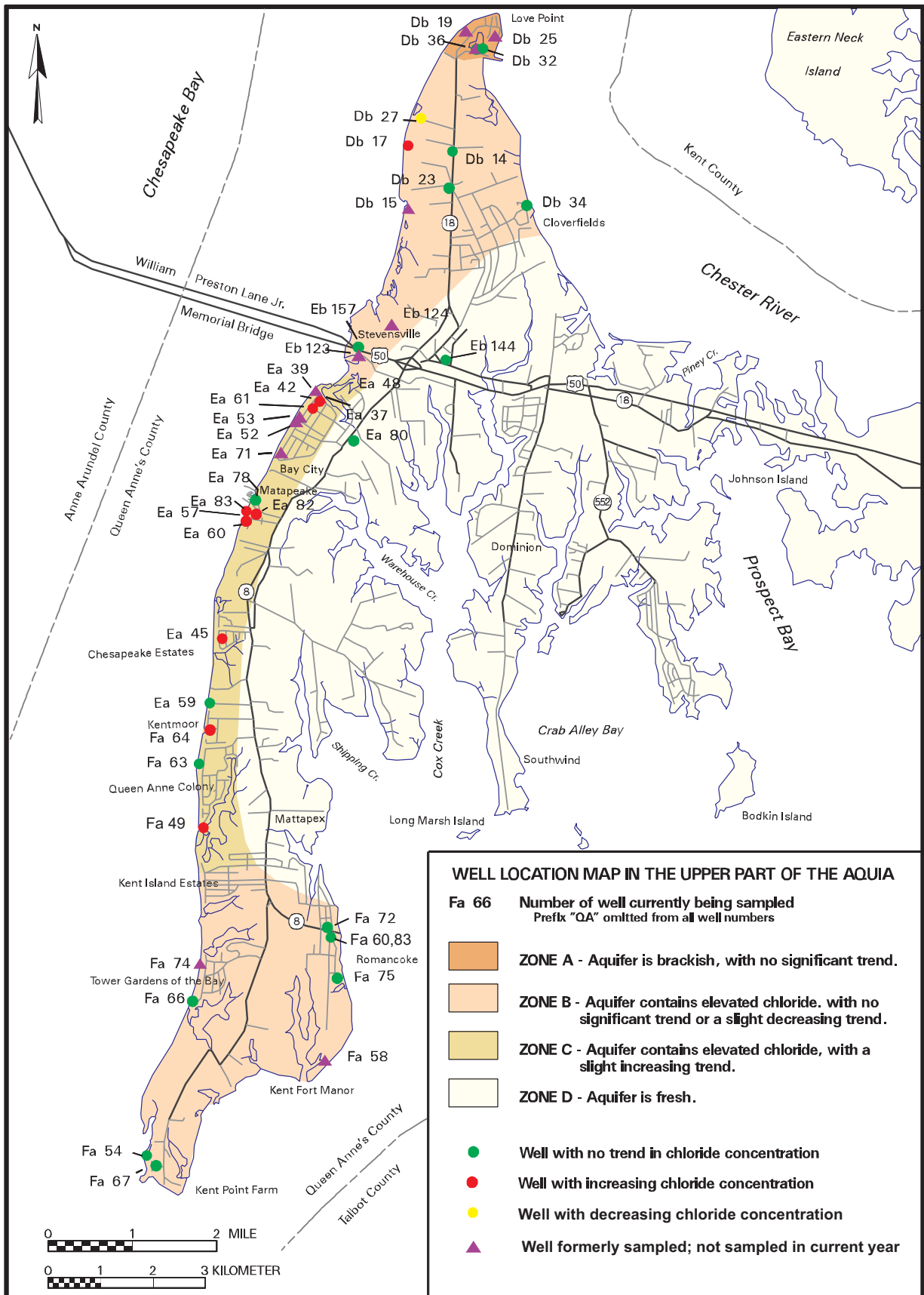
Maps showing well locations are found on figures 1 and 2. The maps also show zones of generalized trends in chloride concentrations of water from network wells. Most trends in chloride concentrations reported in recent years continued through 2017. Chloride concentrations in some wells in the Bay City/Matapeake Estates areas continue to show an overall increase. Changes in chloride concentrations were generally not seen in samples from the lower Aquia aquifer, where salinities are much higher and screened intervals are farther below the fresh-water/brackish-water interface. An exception to this is well QA Eb 156, which has shown a general increase in chloride since 1998.

The monitoring data indicate that, in general, chloride concentrations are elevated and increasing in the upper Aquia aquifer in the central part of the bay shore on Kent Island; north and south of that central area along the bay shore, chloride concentrations are elevated but do not show a general trend. The lower Aquia aquifer is brackish along the entire bay shore. Inland from the bay shore (about ¼ mile) the entire section of the Aquia is fresh, and does not show evidence of an increasing trend. Increasing trends in chloride concentrations may indicate slight landward movement of the brackish-water interface, but variations mask the trends on parts of Kent Island. The possible explanations given by Drummond (2001) for data through 1999 are still plausible for data through 2017.

## REFERENCES

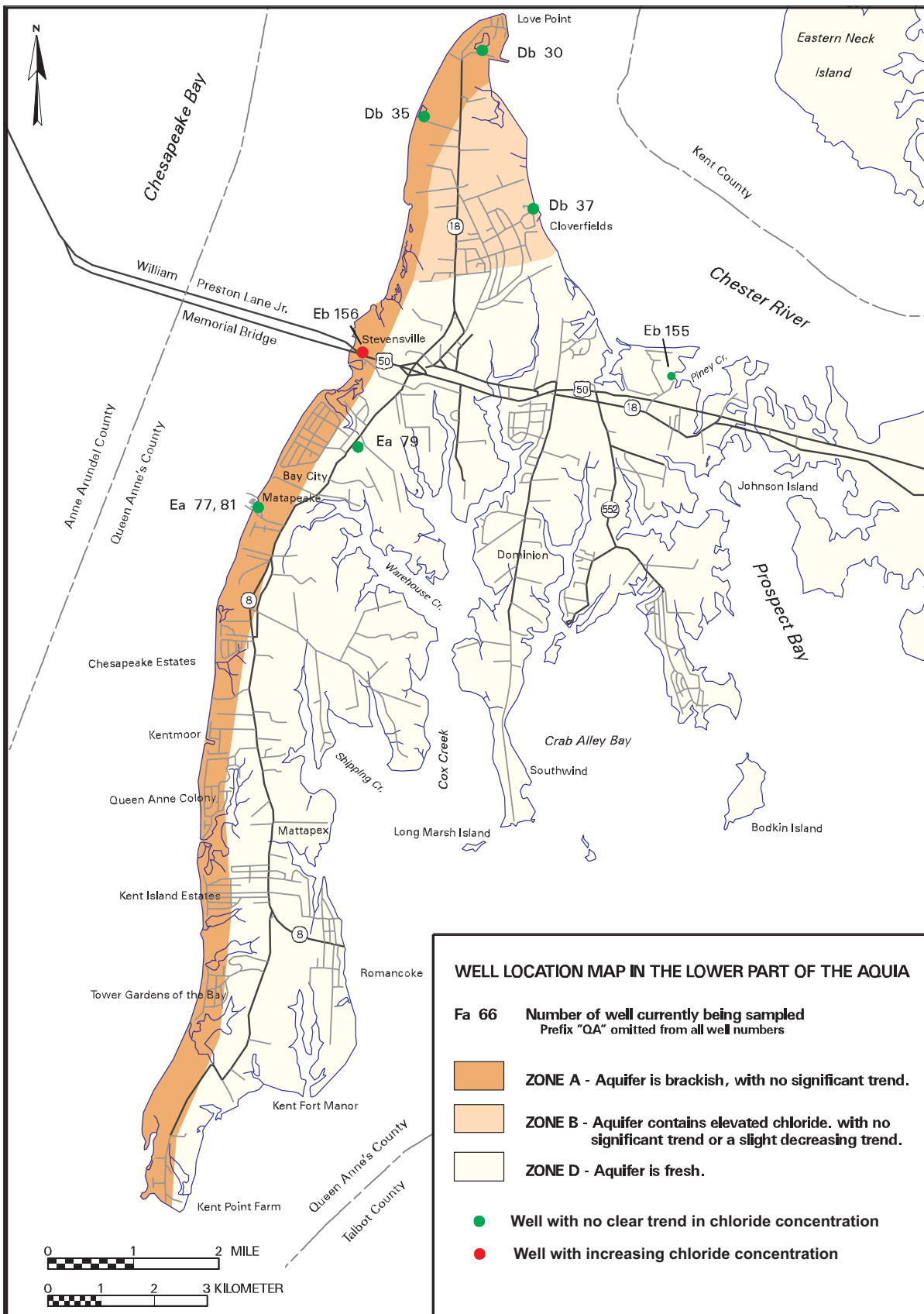
- Drummond, David D., 1988, Hydrogeology, brackish-water occurrence, and simulation of flow and brackish-water movement in the Aquia aquifer in the Kent Island Area, Maryland: Maryland Geological Survey Report of Investigations No. 51, 131 p.
- Drummond, David D., 2001, Hydrogeology of the Coastal Plain Aquifer System in Queen Anne's and Talbot Counties, Maryland, with emphasis on water-supply potential and brackish-water intrusion in the Aquia aquifer: Maryland Geological Survey Report of Investigations No. 72, 141 p.

Figure 1. Kent Island chloride monitoring network in the upper part of the Aquia aquifer.



Base map compiled from Maryland Geological Survey Map of Queen Anne's County 1:65,000 scale, 1986

Figure 2. Kent Island chloride monitoring network in the lower part of the Aquia aquifer.



Base map compiled from Maryland Geological Survey Map of Queen Anne's County 1:65,000 scale, 1986

Table 1. Chloride concentrations from selected residential wells on Kent Island, Queen Anne's County

Location	Well number QA-	Screen interval (feet)	Maximum chloride concentration, in milligrams per liter			
			Initial year	1995	2000	2017
Bay City	Ea 42	100-120	35 (1988)	160	103	228
Matapeake Estates	Ea 60	165-185	190 (1983)	370	423	630
Matapeake Estates	Ea 82	155-170	160 (1991)	240	276	581
Kentmorr	Ea 59	195-215	68 (1985)	110	87	111
Kentmorr	Fa 64	191-231	130 (1983)	210	272	368
Queen Anne Colony	Fa 49	185-210	150 (1983)	170	217 <sup>(1)</sup>	207
Queen Anne Colony	Fa 63	200-235	11 (1991)	8	8	11

Table 2. --- Site and construction data for wells in the Kent Island Chloride Network.

Well number	Site identification	Altitude of land surface (feet)	Well depth (feet)	Top of open interval (feet)	Bottom of open interval (feet)
QA Db 14	390055076184501	15.00	165.00	145.00	165.00
QA Db 15	390022076191801	15.00	103.00	96.00	103.00
QA Db 17	390059076191801	20.00	--	--	--
QA Db 23	390033076184501	18.00	185.00	165.00	185.00
QA Db 25	390212076181501	19.00	45.00	37.00	45.00
QA Db 27	390117076191301	15.00	145.00	110.00	145.00
QA Db 30	390201076182701	17.80	220.00	210.00	220.00
QA Db 32	390201076182703	18.00	116.00	106.00	116.00
QA Db 34	390023076174301	7.40	180.00	170.00	180.00
QA Db 35	390119076191001	7.50	200.00	190.00	200.00
QA Db 36	390201076182704	21.30	180.00	170.00	180.00
QA Db 37	390023076174302	7.10	250.00	240.00	250.00
QA Ea 37	385822076202501	17.00	92.00	92.00	92.00
QA Ea 39	385825076202901	15.00	95.00	80.00	95.00
QA Ea 42	385820076202501	18.00	120.00	100.00	120.00
QA Ea 45	385554076213801	15.00	210.00	200.00	210.00
QA Ea 48	385825076201201	5.00	160.00	129.00	160.00
QA Ea 52	385807076204401	8.00	170.00	150.00	170.00
QA Ea 53	385810076204101	17.00	90.00	80.00	90.00
QA Ea 57	385705076212301	10.00	194.00	165.00	194.00
QA Ea 59	385505076215001	10.00	215.00	195.00	215.00
QA Ea 60	385701076212501	7.00	185.00	165.00	185.00
QA Ea 61	385812076202801	18.00	170.00	150.00	170.00
QA Ea 71	385742076205801	20.00	135.00	115.00	135.00
QA Ea 77	385718076211501	10.80	205.00	195.00	205.00
QA Ea 78	385718076211502	11.80	135.00	125.00	135.00
QA Ea 79	385757076200101	8.30	298.00	288.00	298.00
QA Ea 80	385757076200102	8.50	130.00	120.00	130.00
QA Ea 81	385718076211503	12.40	310.00	300.00	310.00



Table 2. --- Site and construction data for wells in the Kent Island Chloride Network -- Continued

Well number	Site identification	Altitude of land surface (feet)	Well depth (feet)	Top of open interval (feet)	Bottom of open interval (feet)
QA Ea 82	385705076212002	10.00	170.00	155.00	170.00
QA Ea 83	385705076212001	10.00	170.00	160.00	170.00
QA Eb 123	385848076195801	5.00	120.00	100.00	120.00
QA Eb 124	385910076193501	20.00	150.00	130.00	150.00
QA Eb 144	385847076184801	15.11	240.00	220.00	240.00
QA Eb 155	385843076155302	3.90	245.00	235.00	245.00
QA Eb 156	385852076195201	12.01	220.00	210.00	220.00
QA Eb 157	385852076195202	11.92	120.00	110.00	120.00
QA Fa 49	385354076212701	8.00	210.00	185.00	210.00
QA Fa 54	385024076222501	10.00	260.00	240.00	260.00
QA Fa 58	385133076201201	7.07	280.00	260.00	280.00
QA Fa 60	385254076201901	10.12	240.00	230.00	240.00
QA Fa 63	385434076215601	15.00	235.00	200.00	235.00
QA Fa 64	385454076214901	5.00	231.00	191.00	231.00
QA Fa 66	385236076215201	13.00	270.00	250.00	270.00
QA Fa 67	385023076222201	7.35	270.00	250.00	270.00
QA Fa 72	385254076201301	12.00	220.00	200.00	220.00
QA Fa 74	385227076215401	10.00	280.00	--	--
QA Fa 75	385155076200401	10.00	200.00	180.00	200.00
QA Fa 83	385254076201902	10.00	260.00	220.00	260.00

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Db 14	01-25-82	--	--	--	241	--	--	14.0	--
	02-12-86	--	--	--	460	--	--	14.0	--
	06-15-88	15.56	--	7.38	460	442	17.1	15.0	--
	05-16-90	--	--	7.27	442	430	15.0	14.0	0.050
	05-22-91	--	--	7.07	448	450	17.0	18.0	0.050
	08-26-91	--	--	7.08	452	450	16.0	17.0	0.060
	03-16-92	--	--	7.45	448	458	12.2	17.0	0.070
	08-10-92	--	--	7.26	450	461	15.6	17.0	0.040
	03-08-93	--	--	7.25	452	463	14.2	14.0	0.050
	08-19-93	--	--	7.16	452	464	15.4	14.0	0.050
	03-16-94	--	7.20	7.00	456	451	14.0	14.0	0.060
	08-10-94	--	7.10	7.23	455	452	15.4	15.0	0.050
	03-16-95	--	7.20	7.25	454	447	14.5	14.0	0.070
	08-22-95	--	7.50	7.40	439	440	15.8	14.0	0.060
	03-27-96	--	7.20	7.31	453	454	14.1	14.0	0.070
	10-16-96	--	7.30	8.23	459	429	15.0	14.0	0.050
	03-19-97	--	7.40	7.23	453	456	13.7	14.0	--
	08-18-97	--	7.36	7.12	432	460	15.5	13.4	--
	03-11-98	--	7.36	7.24	458	--	14.0	13.7	--
	09-09-98	--	7.34	7.34	456	488	15.2	13.6	--
	03-19-99	--	7.31	7.28	460	466	14.4	13.9	--
	08-10-99	--	7.45	6.83	456	442	15.8	13.9	--
	03-24-00	--	7.36	7.36	454	463	14.0	13.5	--
	08-07-00	--	7.44	7.01	453	472	15.7	13.0	--
	03-15-01	--	7.26	7.28	451	457	14.2	13.5	--
	08-08-01	--	7.33	7.26	445	456	15.5	14.3	--
	03-07-02	--	7.54	7.30	454	451	14.5	13.1	--
	08-21-02	--	7.24	7.21	439	501	15.8	12.8	--
	03-26-03	--	7.6	7.2	422	439	14.4	14.4	--
	08-25-03	--	7.4	7.1	417	456	14	13.9	--
	04-05-04	--	7.4	7.2	436	462	14.3	14.9	--
	08-24-04	--	7.4	7.2	415	459	15.5	14.5	--
04-18-05	--	7.4	7.2	410	453	14.7	14.0	--	
09-21-05	--	6.8	7.1	444	452	15.5	13.9	--	
08-23-06	--	7.7	7.2	430	420	15.2	15.3	--	

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)	
			Lab	Field	Lab	Field				
QA Db 14 (continued)	08-21-07	--	7.3	7.2	--	449	15.4	14.6	--	
	09-10-08	--	--	7.1	--	455	15.5	15.0	--	
	09-02-09	--	--	6.9	--	453	15.5	14.9	--	
	09-26-12	--	--	7.2	--	452	15.5	14.4	--	
	08-29-13	--	--	7.3	--	458	15.5	14.8	--	
	09-11-15	--	--	--	7.2	--	445	15.4	16	--
	09-15-17	--	--	--	7.04	--	502	15.8	14.9	--
QA Db 15	07-08-83	--	7.00	>7.20	983	960	16.6	100.0	--	
	05-22-91	--	--	6.70	1000	1020	17.0	130.0	0.330	
	08-27-91	--	--	6.81	1010	1000	17.0	130.0	0.340	
	03-16-92	--	--	7.33	1010	1047	12.7	110.0	0.350	
	08-10-92	--	--	7.15	1000	1034	18.0	110.0	0.330	
	03-08-93	--	--	7.15	1010	1058	12.6	110.0	0.330	
	08-19-93	--	--	6.91	1010	1030	17.5	120.0	0.350	
	03-16-94	--	6.90	7.16	1020	1020	12.1	110.0	0.360	
	08-10-94	--	7.00	7.00	1020	1018	19.2	110.0	0.360	
	08-11-99	--	7.25	6.95	1017	977	17.1	116.8	--	
	03-22-00	--	7.36	6.98	1034	1062	13.8	118.9	--	
	08-07-00	--	7.17	--	1019	1087	17.6	114.4	--	
	03-15-01	--	7.07	6.93	1020	1049	13.7	119.8	--	
	08-06-01	--	7.17	6.92	1019	1050	17.5	119.9	--	
	03-07-02	--	7.31	7.01	1043	1060	13.6	122.0	--	
	08-21-02	--	E6.75	6.99	1050	1171	17.6	124.5	--	
	08-26-03	--	7.1	6.8	1020	1090	17.1	132	--	
	04-06-04	--	7.8	6.9	1010	1100	13.2	132	--	
	08-24-04	--	7.2	--	981	1080	17.6	129	--	
	04-18-05	--	7.1	7.0	1030	1080	14.7	133	--	
09-21-05	--	6.7	7.0	1070	1100	19.3	135	--		
09-25-06	--	7.2	6.8	1090	1060	17.5	143	--		
QA Db 17	04-27-83	--	--	--	431	--	--	72.0	--	
	01-12-86	--	--	--	626	--	--	63.0	--	
	06-15-88	--	--	7.30	632	622	16.8	71.0	--	
	05-16-90	--	--	7.28	592	590	15.0	64.0	0.210	
	05-23-91	--	--	7.09	603	610	16.0	65.0	0.210	

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Db 17	08-26-91	--	--	7.02	616	610	17.0	71.0	0.230
(continued)	03-17-92	--	--	7.45	617	634	13.2	65.0	0.250
	08-10-92	--	--	7.25	624	643	15.8	70.0	0.230
	03-08-93	--	--	7.20	626	648	13.2	67.0	0.240
	08-19-93	--	--	7.13	637	656	15.5	74.0	0.250
	03-16-94	--	7.10	7.20	635	634	12.5	71.0	0.260
	08-09-94	--	7.00	7.04	650	639	15.6	75.0	0.280
	03-16-95	--	7.10	7.10	635	628	13.3	71.0	0.260
	08-22-95	--	7.30	6.70	648	642	16.2	76.0	0.290
	03-27-96	--	7.20	7.26	656	658	12.8	77.0	0.290
	10-16-96	--	7.30	6.80	652	605	15.0	72.0	0.270
	03-19-97	--	7.20	7.16	630	646	13.3	66.0	--
	08-18-97	--	7.35	7.08	596	654	15.6	69.6	--
	03-11-98	--	7.29	7.22	642	--	13.5	68.5	--
	09-09-98	--	7.27	7.27	666	633	14.6	69.9	--
	03-23-99	--	7.34	7.12	638	621	13.8	72.2	--
	03-24-00	--	7.30	7.32	613	633	14.0	61.9	--
	08-16-00	--	7.18	7.20	730	746	15.2	103.8	--
	03-14-01	--	7.21	7.37	649	680	13.8	74.8	--
	08-06-01	--	7.21	7.15	736	765	15.9	110.5	--
	03-19-02	--	7.24	7.21	746	738	14.2	105.7	--
	08-21-02	--	7.00	7.05	1093	1232	17.4	222.3	--
	08-25-03	--	7.3	6.7	683	751	16.9	102	--
	04-05-04	--	7.2	7.1	694	--	13.6	97.8	--
	08-24-04	--	7.3	6.9	667	743	17.1	101	--
	04-18-05	--	7.2	7.1	737	833	14.7	121	--
	09-21-05	--	6.7	7.1	746	762	16.4	108	--
	09-25-06	--	7.3	--	701	686	16.2	93.9	--
	09-23-08	--	--	7.1	--	629	15.8	71.8	--
	09-29-09	--	--	7.1	--	657	15.6	65.2	--
	10-12-10	--	--	7.1	--	662	15.4	68.1	--
	07-20-11	--	--	7.0	--	728	16.2	103	--
	09-26-12	--	--	7.1	--	732	15.9	97.3	--
	08-29-13	--	--	7.2	--	839	15.6	130	--
	09-11-15	--	--	7.1	--	697	16.3	100	--
	08-08-17	--	--	7.16	--	702	16.0	96.5	--

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Db 19	02-12-86	--	--	--	1470	--	--	350.0	--
	06-15-88	--	--	7.69	1420	1356	17.3	250.0	--
	12-13-88	--	--	6.27	1420	1246	15.0	330.0	1.20
	03-09-89	--	--	6.44	1420	1485	15.0	360.0	1.30
	05-16-89	--	--	6.01	1420	1240	15.5	260.0	1.10
	08-14-89	--	--	6.66	1440	1263	15.0	330.0	1.20
	11-14-89	--	--	6.30	1450	--	15.0	340.0	1.20
QA Db 23	07-06-83	--	7.30	7.40	457	440	15.5	21.0	--
	02-12-86	--	--	--	459	--	--	18.0	--
	05-22-91	--	--	6.98	446	450	15.0	22.0	0.060
	08-26-91	--	--	7.26	448	450	16.0	20.0	0.070
	08-10-92	--	--	7.43	444	447	15.6	20.0	0.060
	03-08-93	--	--	7.46	443	452	14.4	18.0	0.050
	08-19-93	--	--	7.22	446	458	15.2	16.0	0.060
	03-17-94	--	7.20	7.40	450	450	14.2	33.0	0.120
	08-10-94	--	7.10	7.54	445	441	15.7	17.0	0.070
	03-16-95	--	7.40	7.49	445	437	14.4	17.0	0.080
	08-22-95	--	7.50	7.00	440	436	15.5	16.0	0.070
	03-27-96	--	7.40	7.24	445	442	14.3	*18.6	0.070
	10-17-96	--	7.40	7.49	449	423	15.3	16.0	0.060
	03-19-97	--	7.40	7.17	448	450	14.1	17.0	--
	08-18-97	--	7.43	7.11	421	453	15.1	16.5	--
	03-11-98	--	7.51	7.33	447	--	14.1	16.7	--
	09-09-98	--	7.35	7.40	448	441	14.9	16.2	--
	03-19-99	--	7.43	7.31	450	--	14.8	16.7	--
	08-10-99	--	7.61	7.55	447	432	15.4	16.6	--
	03-21-00	--	7.59	7.26	449	454	14.2	17.2	--
	08-07-00	--	7.53	--	444	445	15.4	16.1	--
	03-15-01	--	7.30	7.29	448	447	14.4	15.8	--
	08-06-01	--	7.37	7.33	444	446	15.9	16.5	--
	03-07-02	--	7.70	7.39	445	432	14.9	15.2	--
	08-21-02		7.70	7.23	424	480	15.8	14.8	--
	03-24-03	--	7.7	7.3	412	427	14.7	14.6	--
08-27-03	--	7.3	7.2	412	434	15.9	16.3	--	
04-05-04	--	7.4	7	424	451	13.9	16.6	--	
08-25-04	--	7.7	--	397	--	--	15.7	--	
04-12-05	--	7.4	7.2	388	444	14.8	15.8	--	

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)	
			Lab	Field	Lab	Field				
QA Db 23 (continued)	10-05-05	--	6.9	7.2	429	447	16.2	15.9	--	
	09-25-06	--	7.6	7.0	424	410	--	15.2	--	
	09-05-07	--	--	7.2	--	433	15.5	--	--	
	09-10-08	--	--	7.3	--	433	15.4	15.5	--	
	09-02-09	--	--	--	--	451	15.7	16.0	--	
	10-12-10	--	--	7.2	--	434	15.6	16.2	--	
	07-19-11	--	--	7.2	--	430	16.7	15.6	--	
	09-26-12	--	--	7.2	--	436	16.1	15.3	--	
	09-10-13	--	--	7.4	-	446	15.4	14.5	--	
	09-11-15	--	--	7.3	-	417	15.7	17	--	
	QA Db 25	07-06-83	--	5.60	5.70	352	370	15.0	66.0	--
		02-12-86	--	--	--	535	--	--	110.0	--
		06-15-88	18.62	--	5.84	1400	1343	17.1	380.0	--
QA Db 27	07-14-83	--	7.20	7.20	1430	--	14.5	320.0	--	
	02-12-86	--	--	--	1420	--	--	310.0	--	
	06-15-88	--	--	7.07	1380	1322	16.5	310.0	--	
	12-13-88	--	--	6.95	1340	1110	13.8	250.0	0.890	
	03-23-89	--	--	6.93	1400	1218	14.0	320.0	1.100	
	05-16-89	--	--	6.96	1370	1269	14.5	240.0	1.000	
	08-16-89	--	--	7.44	1410	1270	15.0	290.0	1.100	
	11-30-89	--	--	7.19	1360	--	14.0	300.0	1.100	
	02-21-90	--	--	7.25	1310	1306	14.5	300.0	1.000	
	06-08-90	--	--	7.08	1380	1250	15.0	300.0	1.300	
	05-29-91	--	--	7.08	1370	1390	16.0	340.0	1.100	
	08-23-91	--	--	7.03	1270	1300	17.0	300.0	0.920	
	03-16-92	--	--	7.19	1420	1439	14.2	310.0	1.100	
	08-10-92	--	--	7.06	1410	1438	15.3	310.0	0.970	
	04-06-93	--	--	7.22	1400	1410	14.4	300.0	1.100	
	08-16-93	--	--	7.02	1410	1407	15.2	270.0	0.540	
	03-16-94	--	6.90	7.12	1340	1352	14.2	290.0	1.100	
	08-09-94	--	7.40	6.90	1390	1350	15.1	300.0	1.100	
	03-29-95	--	6.90	7.00	1410	1340	19.5	310.0	1.100	
	08-22-95	--	7.10	7.60	1390	1306	14.9	300.0	1.000	
03-26-96	--	6.90	7.06	1340	1329	14.4	280.0	1.000		
10-17-96	--	7.10	7.64	1310	1145	14.7	270.0	0.890		
03-19-97	--	7.00	7.03	1280	1316	14.2	270.0	--		
08-07-97	--	7.36	6.95	1204	1335	15.1	273.2	--		
03-25-98	--	7.05	7.04	1273	1290	14.3	266.9	--		

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Db 27	09-16-98	--	7.08	6.92	1350	1305	15.1	284.9	--
(continued)	03-23-99	--	7.13	6.97	1271	1205	14.3	270.0	--
	08-17-99	--	7.07	7.06	1246	1196	15.1	270.4	--
	03-24-00	--	7.09	7.17	1250	1290	14.5	261.2	--
	08-30-00	--	7.08	7.19	1287	1298	14.9	261.0	--
	03-14-01	--	7.03	7.15	1265	1289	14.5	258.1	--
	08-06-01	--	7.06	7.03	1217	1291	15.4	275.0	--
	03-20-02	--	7.06	7.09	1242	1227	14.4	250.0	--
	08-23-02	--	7.06	7.07	1304	1472	15.5	274.6	--
	03-19-03	--	7.2	7.0	1240	1260	14.5	243	--
	08-22-03	--	7.2	6.5	1190	1300	15	259	--
	04-01-04	--	7.1	7.1	1180	1230	14.4	253	--
	08-24-04	--	7.2	6.9	1140	1270	15.2	227	--
	04-18-05	--	7.2	7.0	1160	1280	14.9	246	--
	09-21-05	--	6.5	7.0	1040	1050	15.0	191	--
	08-22-06	--	7.0	7.0	1230	1170	14.8	252	--
	08-28-07	--	7.1	6.9	1230	1200	15.0	247	--
	09-10-08	--	--	7.0	--	1090	15.1	201	--
	09-02-09	--	--	6.9	--	1180	15.9	224	--
	10-12-10	--	--	6.9	--	1120	15.1	225	--
	07-19-11	--	--	6.9	--	1140	16.0	231	--
	09-26-12	--	--	7.0	--	1110	15.5	214	--
	08-28-13	--	--	7.1	--	1120	15.2	204	--
	09-11-15	--	--	7.0	--	1150	15.4	250	--
	08-03-17	--	--	7.06	--	1171	15.4	256	--
QA Db 30	08-27-84	16.80	4.60	6.80	15500	15900	17.0	6000.0	--
	12-01-88	17.27	--	6.30	--	12290	15.0	6200.0	19.000
	03-13-89	17.07	--	6.74	16300	13830	18.9	5700.0	20.000
	05-18-89	16.89	--	6.45	16700	14050	15.0	4500.0	17.000
	08-15-89	16.82	5.40	6.44	16900	13250	16.0	5900.0	22.000
	11-14-89	16.90	--	6.12	20100	--	15.0	6500.0	24.000
	02-28-90	17.11	--	6.53	17000	14570	14.9	5900.0	21.000
	05-16-90	18.90	--	6.06	16400	15910	16.1	6400.0	0.200
	08-29-90	16.33	--	6.28	16700	18000	17.0	5800.0	21.000
	11-27-90	17.20	--	6.27	17000	18000	16.0	6100.0	22.000
	02-13-91	16.77	--	6.47	17200	18000	15.0	5900.0	21.000
	05-23-91	16.83	--	6.27	17700	--	16.0	7200.0	20.000
	03-31-92	17.00	--	6.37	17000	17030	15.6	5600.0	20.000
	08-20-92	16.49	--	6.18	17100	16890	15.8	5600.0	13.000
	04-05-93	16.15	--	6.52	17400	17120	15.3	6000.0	12.000

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Db 30	08-18-93	16.21	--	6.47	--	17050	15.7	*6280.0	--
(continued)	03-15-94	18.43	5.50	6.51	17200	16600	15.2	6000.0	22.000
	08-24-94	18.85	--	6.47	--	15890	16.2	*5800.0	--
	05-12-95	16.64	5.00	6.29	16800	14470	16.4	5900.0	23.000
	08-10-95	16.66	4.10	6.21	16500	17170	16.9	5800.0	22.000
	03-13-96	16.71	5.10	6.18	17000	16450	15.9	6000.0	20.000
	08-06-96	16.58	4.10	6.19	16900	16890	15.9	5900.0	21.900
	08-04-97	16.84	6.20	--	16200	17420	15.8	5916.8	--
	09-11-98	17.24	4.50	6.20	16500	18004	15.8	5870.8	--
	08-19-99	17.28	5.10	6.27	17300	--	16.1	6114.4	--
	08-24-00	16.74	5.35	6.35	16900	17430	15.8	6000.5	--
	08-15-01	16.98	5.28	6.30	17000	18660	16.4	6057.0	--
	08-16-02	17.28	2.9	6.39	18050	17900	16.2	6058.0	--
	08-20-03	16.35	5.7	6.2	E16600	18000	16.7	5860	--
	09-01-04	16.9	5.0	6.4	E16500	17000	16.8	5970	--
	09-13-05	17.10	--	6.2	--	18100	16.4	6120	--
	08-29-06	--	5.0	6.3	E18200	17700	--	6140	--
	08-30-07	--	4.7	6.2	E18200	18300	16.5	6010	--
	09-16-08	--	--	6.2	--	18000	16.2	5970	--
	09-15-09	16.32	--	7.6	--	18600	16.3	6280	--
	09-20-10	--	--	6.3	--	18400	16.3	6390	--
	08-10-11	--	--	6.5	--	18200	16.7	6630	--
	09-05-12	--	--	6.4	--	18000	18.0	6160	--
	09-09-13	--	--	6.3	--	17800	16.3	6010	--
	08-25-15	--	--	6.4	--	17700	16.8	6300	--
	08-16-17	--	--	6.58	--	19670	18.3	5770	--
QA Db 32	07-16-84	16.80	6.50	6.70	9450	9400	15.0	3200.0	--
	11-22-88	17.60	--	6.63	--	7600	17.0	3000.0*	10.000
	03-13-89	16.98	--	6.79	8510	8470	14.1	2800.0	9.200
	05-17-89	16.77	--	6.60	8460	7310	15.0	2600.0	9.200
	08-15-89	17.05	--	6.78	8450	6150	15.5	2800.0	9.700
	11-14-89	16.86	--	6.70	8480	--	14.0	2600.0	8.800
	02-27-90	17.05	--	6.76	7360	6920	13.5	2200.0	8.100
	05-16-90	16.22	--	6.69	7540	7200	15.2	2400.0	8.500
	08-29-90	16.34	--	6.81	7510	8000	16.0	2300.0	8.300
	12-06-90	16.91	--	6.52	7200	7000	14.3	2100.0	7.100



Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Db 32	02-13-91	16.52	--	6.74	6980	6200	15.0	1800.0	7.900
(continued)	05-23-91	16.73	--	6.77	6610	7000	16.0	2200.0	7.100
	08-22-91	16.76	--	6.63	8920	9000	16.0	2900.0	9.500
	03-31-92	16.80	--	6.66	9020	8970	14.7	2800.0	10.000
	08-20-92	16.51	--	6.48	9510	9380	14.9	2900.0	5.100
	04-05-93	15.76	--	6.86	9380	9350	14.5	3000.0	11.000
	08-18-93	15.93	--	6.75	9170	9090	14.9	2800.0	3.000
	03-15-94	18.37	6.60	6.89	8060	7680	14.4	2400.0	8.500
	08-24-94	18.30	6.60	6.77	8580	7840	15.4	2700.0	9.000
	05-12-95	16.44	6.70	6.77	8410	6990	15.1	2500.0	9.200
	08-10-95	16.56	6.80	6.72	8450	8730	15.4	2800.0	9.500
	03-13-96	16.39	6.60	6.95	8320	8000	14.7	2700.0	9.400
	08-06-96	16.38	6.60	6.54	8620	8400	15.2	2700.0	8.800
	08-04-97	16.55	7.00	--	7560	8250	15.0	2550.3	--
	09-11-98	17.04	6.69	6.54	8390	8731	14.8	2617.5	--
	08-19-99	17.09	6.73	6.60	8700	--	15.2	2739.5	--
	08-24-00	16.56	6.67	6.82	8430	6780	15.0	2694.1	--
	08-15-01	16.75	6.68	6.67	8410	9420	16.5	2649.8	--
	08-16-02	17.16	6.81	6.61	9002	9110	15.6	2731.4	--
	08-20-03	16.14	6.8	6.5	8150	8410	16.2	2540	--
	09-01-04	16.41	6.8	6.6	7530	7760	16.0	2400	--
	09-13-05	16.83	--	6.5	--	8640	15.6	2610	--
	08-29-06	18.62	6.6	6.5	8840	8620	--	2680	--
	08-30-07	--	7.0	6.5	8320	8300	15.5	2510	--
	09-16-08	--	--	6.9	--	8960	15.4	2730	--
	09-15-09	16.13	--	7.8	--	8880	14.9	2650	--
	09-20-10	--	--	6.6	--	8550	15.2	2670	--
	08-10-11	--	--	6.7	--	9840	15.3	3330	--
	09-05-12	--	--	6.7	--	8920	15.4	2770	--
	09-09-13	--	--	6.6	--	8680	15.2	2560	--
	08-25-15	--	--	6.7	--	8740	15.4	3000	--
	08-16-17	--	--	--	--	9720	15.3	2550	--
QA Db 34	08-29-84	--	7.30	7.40	518	518	15.0	11.0	--
	11-23-88	9.65	--	7.22	--	483	15.2	10.0	0.036
	12-01-89	8.83	--	7.28	476	--	15.4	9.4	0.080
	08-07-90	--	--	7.30	508	500	17.0	15.0	0.040
	12-04-90	7.86	--	7.13	507	470	15.0	12.0	<.01

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Db 34	02-12-91	8.89	--	7.61	507	470	15.0	16.0	0.040
(continued)	05-20-91	8.08	--	7.27	488	500	16.0	16.0	0.030
	08-21-91	12.22	--	7.06	512	510	17.0	13.0	<.01
	03-25-92	8.40	--	7.39	509	521	15.5	14.0	0.040
	08-19-92	10.50	--	7.33	509	524	15.6	12.0	<.01
	03-24-93	8.03	--	7.34	508	528	15.2	9.7	--
	08-18-93	9.74	--	7.48	509	529	16.1	9.8	0.010
	03-07-94	11.36	7.20	7.44	524	523	15.2	8.7	0.020
	08-19-94	11.73	7.10	7.40	509	520	15.9	9.4	<.01
	03-30-95	8.05	7.30	7.23	519	506	15.3	10.0	0.040
	08-10-95	8.38	7.40	7.35	506	522	16.1	9.0	0.020
	03-13-96	7.65	7.30	7.28	497	518	15.4	9.6	0.030
	08-06-96	7.74	7.40	7.30	517	515	15.6	9.4	0.020
	08-07-97	8.29	7.54	7.22	481	522	15.7	9.0	--
	09-17-98	9.30	7.47	7.00	514	416	15.7	9.2	--
	08-19-99	9.35	7.46	7.70	515	504	15.4	10.1	--
	08-25-00	8.16	7.39	7.36	520	524	16.0	8.6	--
	08-14-01	8.75	7.51	7.43	509	520	15.5	9.1	--
	08-22-02	9.89	7.27	7.18	499	577	19.5	9.31	--
	08-20-03	--	7.4	7.2	499	527	15.7	9.61	--
	09-02-04	8.49	7.5	7.2	475	522	15.5	8.97	--
	09-15-05	8.48	6.6	6.9	502	482	15.9	8.98	--
	08-29-06	--	7.4	7.2	520	520	--	8.91	--
	08-30-07	--	7.5	7.1	518	535	15.7	9.17	--
	09-15-08	--	--	7.2	--	510	15.6	9.45	--
	09-15-09	8.15	--	7.4	--	434	15.7	12.4	--
	09-20-10	--	--	7.3	--	508	15.8	9.69	--
	08-10-11	--	--	7.4	--	521	15.8	9.5	--
	09-04-12	--	--	7.3	--	494	16.3	9.53	--
	09-10-13	--	--	7.1	--	488	15.9	9.08	--
	08-27-15	--	--	7.3	--	448	15.9	9.0	--
	08-15-17	--	--	7.31	--	442	15.7	16.9	--
QA Db 35	08-23-84	6.88	6.80	7.00	15000	14900	15.0	5700.0	--
	12-06-88	6.89	--	6.52	--	10050	16.4	6700.0	21.000
	03-23-89	6.72	--	6.63	17500	14190	16.0	6400.0	21.000
	05-18-89	5.98	--	6.27	17300	15570	16.0	6200.0	21.000
	08-16-89	6.37	--	6.67	17500	13140	15.5	6000.0	21.000

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Db 35	11-30-89	8.79	--	6.85	16500	--	14.0	5900.0	18.000
(continued)	02-21-90	6.62	--	6.99	16700	15700	16.5	6400.0	21.000
	06-08-90	7.20	--	6.81	17000	14660	15.5	6900.0	23.000
	08-17-90	6.10	--	6.61	17100	19000	17.0	6400.0	22.000
	11-20-90	6.01	--	6.88	17300	18000	14.4	7800.0	22.000
	02-14-91	5.77	--	6.25	17400	18000	15.0	7900.0	22.000
	05-29-91	5.81	--	6.47	17700	--	16.0	5100.0	21.000
	08-23-91	5.97	--	6.46	17500	23000	16.0	6300.0	19.000
	03-25-92	6.00	--	7.01	17600	17530	16.9	5700.0	22.000
	08-20-92	6.09	--	6.58	17600	16980	16.4	6000.0	14.000
	04-06-93	6.64	--	6.96	17600	16550	16.7	5700.0	27.000
	08-16-93	5.88	--	6.70	17200	16690	16.4	5400.0	16.000
	03-01-94	8.50	6.00	6.84	17600	17080	15.8	6200.0	21.000
	08-24-94	8.05	6.00	6.89	17500	15580	17.2	6000.0	21.000
	03-29-95	6.64	6.30	6.83	17300	14830	16.7	6200.0	22.000
	08-15-95	6.08	5.90	6.64	16500	17470	17.5	6200.0	22.000
	03-26-96	5.87	6.30	6.91	17400	16950	16.7	6300.0	23.000
	08-08-96	5.79	6.10	6.72	17200	16780	17.5	6200.0	61.000
	08-07-97	5.71	6.18	6.74	15800	17560	15.4	6158.6	--
	09-16-98	6.20	6.05	6.67	17400	14330	16.8	6114.3	--
	08-17-99	8.30	6.12	6.80	17700	--	17.3	6361.3	--
	08-25-00	6.23	6.48	6.84	16900	17490	15.4	6359.0	--
	08-16-01	5.86	6.25	6.86	17300	19120	17.0	6180.7	--
	08-23-02	6.55	6.35	6.83	E17590	19920	18.6	6294.0	--
	08-22-03	5.46	6.5	6.7	E15400	18600	18.5	6180	--
	09-02-04	6.0	6.4	--	E16000	16800	16.1	6250	--
	09-14-05	5.95	6.4	6.7	E18000	18400	15.9	6210	--
	08-30-06	7.95	6.2	6.2	E18100	17400	--	6210	--
	08-28-07	--	6.4	6.7	E18000	17300	15.4	6240	--
	09-16-08	--	--	6.7	--	18200	15.6	6230	--
	09-16-09	5.61	--	6.6	--	18200	15.0	6290	--
	09-16-10	--	--	6.6	--	18000	15.2	6580	--
	08-11-11	--	--	6.7	--	18100	16.3	6610	--
	09-06-12	--	--	6.7	--	18100	16.0	6430	--
	09-09-13	--	--	6.7	--	18000	15.5	6290	--
	08-25-15	--	--	6.8	--	17800	16.1	6400	--
	08-15-17	--	--	6.76	--	15950	16.6	6580	--

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)	
			Lab	Field	Lab	Field				
QA Db 36	09-12-84	16.70	6.30	6.80	18900	18600	14.9	7400.0	--	
	12-01-88	17.03	--	6.59	--	16530	15.0	7100.0	24.000	
	03-09-89	17.02	--	6.72	20000	20700	15.6	7200.0	19.000	
	05-17-89	16.72	--	6.46	19700	16170	17.5	6900.0	20.000	
	08-15-89	16.82	--	6.66	19500	15790	16.0	6000.0	24.000	
	11-14-89	16.50	--	6.60	--	--	16.0	--	--	
	02-27-90	17.13	--	6.73	18700	18260	16.1	6900.0	24.000	
	08-29-90 †	16.21	--	8.78	4460	4800	17.0	1300.0	4.600	
	12-04-90 †	16.57	--	8.90	4270	4200	15.0	1200.0	3.700	
	02-13-91 †	16.53	--	8.38	5210	4500	14.5	1700.0	5.500	
	06-07-91 †	16.30	--	6.66	--	4500	--	*7000.0	--	
	QA Db 37	08-28-84	--	7.50	7.50	573	570	16.0	14.0	--
		11-23-88	9.37	--	7.34	--	545	16.8	12.0	0.035
12-01-89		8.52	--	7.47	553	549	15.7	11.0	0.040	
06-08-90		8.09	--	7.56	568	558	16.4	15.0	0.020	
08-07-90		--	--	7.26	569	560	17.0	13.0	0.030	
11-27-90		8.75	--	7.68	584	560	14.0	14.0	0.030	
02-12-91		8.72	--	7.46	580	550	15.0	15.0	0.040	
05-20-91		7.76	--	7.23	570	580	15.0	16.0	0.040	
08-22-91		8.79	--	7.17	574	580	17.0	13.0	0.020	
03-25-92		9.70	--	7.58	559	579	17.7	18.0	0.040	
08-19-92		8.32	--	7.41	573	586	16.2	15.0	0.020	
03-24-93		7.40	--	7.44	580	589	15.7	13.0	0.010	
08-18-93		8.78	--	7.49	579	599	16.0	12.0	0.030	
03-07-94		9.53	7.40	7.48	579	584	15.7	12.0	0.030	
08-19-94		12.07	7.40	7.52	576	575	16.5	12.0	0.020	
05-11-95		7.73	7.70	7.61	583	559	16.0	12.0	0.040	
08-10-95		8.13	7.50	7.57	565	585	16.3	12.0	0.040	
03-13-96		7.44	7.50	7.58	562	582	15.7	12.0	0.040	
08-06-96		7.51	7.30	7.47	570	570	16.4	13.0	0.030	
08-07-97		8.06	7.68	7.41	529	578	16.1	12.0	--	
09-17-98	9.05	7.61	7.30	571	565	16.2	11.7	--		
08-19-99	9.16	7.62	7.51	582	552	16.3	12.6	--		
08-25-00	7.97	7.66	7.54	572	578	16.3	11.4	--		
08-14-01	8.57	7.56	7.66	567	574	16.5	12.0	--		
09-09-02	--	7.59	7.51	532	593	16.5	10.8	--		

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Db 37	08-20-03	--	7.6	7.4	540	566	17.1	11.3	--
(continued)	09-02-04	8.28	7.6	--	527	569	17.1	11.6	--
	09-15-05	8.35	6.4	7.4	548	526	17.1	11.3	--
	08-29-06	--	7.8	7.4	569	559	--	11.3	--
	08-30-07	--	7.8	7.3	577	580	16.1	11.8	--
	09-15-08	--	--	7.6	--	557	16.3	11.8	--
	09-15-09	7.80	--	7.5	--	479	15.9	12.2	--
	09-20-10	--	--	7.5	--	562	16.1	12.7	--
	08-10-11	--	--	7.6	--	597	16.4	12.2	--
	09-14-12	--	--	7.5	--	551	16.5	12.0	--
	09-10-13	--	--	7.2	--	550	16.9	12.1	--
	08-27-15	--	--	7.5	--	509	16.4	11	--
	08-15-17	--	--	7.40	--	503	18.1	12.5	--
QA Ea 37	07-05-83	--	7.30	7.60	312	350	17.0	4.4	--
	08-19-85	--	--	--	290	--	--	4.3	--
	09-16-88	--	--	7.59	317	300	17.2	4.5	--
QA Ea 39	08-19-85	--	--	--	386	--	--	16.0	--
	06-16-88	15.61	--	7.55	389	377	16.0	21.0	--
	05-17-90	--	--	7.63	389	390	15.0	25.0	0.070
	05-30-91	--	--	7.22	405	410	17.0	29.0	0.090
	08-27-91	--	--	7.34	412	410	17.0	35.0	0.100
	03-16-92	--	--	7.80	415	418	14.0	34.0	0.110
	08-11-92	--	--	7.55	412	418	15.7	36.0	0.090
	03-09-93	--	--	7.42	419	398	14.4	33.0	0.100
	08-19-93	--	--	7.44	425	434	15.3	33.0	0.110
	03-17-94	--	7.30	7.59	431	432	14.3	35.0	0.120
	08-10-94	--	7.60	7.49	433	439	15.5	36.0	0.130
	03-30-95	--	7.40	7.40	443	434	14.7	45.0	0.170
	08-29-95	----	7.40	7.43	445	457	15.8	42.0	0.130
	08-28-96	--	7.30	7.45	424	435	15.7	39.0	0.120
	03-13-97	--	7.50	7.39	424	425	14.3	33.0	--
	08-18-97	--	7.60	7.27	402	432	15.5	34.5	--
	04-08-98	--	7.56	7.18	425	430	14.8	30.9	--
	09-09-98	--	7.55	7.58	428	421	15.3	33.9	--
	03-19-99	--	7.53	7.50	426	422	14.9	32.2	--
	08-12-99	--	7.54	7.55	423	417	15.7	34.7	--

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Ea 39 (continued)	03-21-00	--	7.74	7.49	424	428	14.2	33.2	--
	08-10-00	--	7.62	7.23	425	429	15.6	32.2	--
	03-13-01	--	7.50	7.52	422	419	14.7	30.7	--
	08-02-01	--	7.53	7.50	424	430	15.9	33.5	--
	03-19-02	--	7.55	7.51	440	427	14.9	36.5	--
	08-21-02	--	7.36	7.42	436	500	15.7	40.7	--
	03-19-03	--	E7.3	7.5	416	424	14.8	37.9	--
	08-25-03	--	7.4	7.3	405	452	15.7	42.1	--
	04-06-04	--	7.8	7.4	402	426	14.6	33	--
	08-25-04	--	7.4	--	386	--	15.2	33.3	--
	04-12-05	--	7.6	7.4	382	420	15.1	35.9	--
	09-21-05	--	6.6	7.4	443	445	16.0	43.8	--
	08-23-06	--	7.6	7.0	496	484	15.7	59.3	--
	08-21-07	--	7.5	7.1	480	472	15.7	51.2	--
	09-10-08	--	--	7.5	--	464	15.6	48.6	--
	09-02-09	--	--	7.3	--	467	15.6	43.3	--
	10-26-10	--	--	--	--	446	15.5	43.9	--
	07-20-11	--	--	7.3	--	452	16.3	46.0	--
	10-09-12	--	--	7.5	--	462	15.4	44.7	--
	08-29-13	--	--	7.5	--	470	16.0	43.3	--
QA Ea 42	04-06-83	--	--	--	376	--	--	35.0	--
	08-19-85	--	--	--	443	--	--	34.0	--
	06-15-88	--	--	7.59	484	438	16.5	47.0	--
	08-29-91	--	--	7.15	595	580	18.0	94.0	0.280
	03-16-92	--	--	7.75	589	595	14.0	87.0	0.280
	08-12-92	--	--	7.48	576	591	15.6	80.0	0.250
	03-08-93	--	--	7.73	594	616	13.9	85.0	0.270
	08-20-93	--	--	7.41	627	643	17.3	94.0	0.310
	08-10-94	--	7.50	7.45	695	693	15.9	120.0	0.400
	03-16-95	--	7.40	7.20	763	751	14.4	130.0	0.470
	08-30-95	--	7.40	7.45	839	799	--	160.0	0.540
	03-29-96	--	7.40	7.00	693	759	14.2	120.0	0.410
	10-17-96	--	7.50	7.68	572	525	15.6	73.0	0.250
	03-27-97	--	7.50	7.47	546	551	14.5	67.0	--
	08-18-97	--	7.50	7.28	632	691	15.7	105.6	--

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Ea 42	03-11-98	--	7.60	7.59	557	--	14.2	67.3	--
(continued)	09-09-98	--	7.53	7.60	719	711	15.8	124.9	--
	03-31-99	--	7.74	7.53	570	546	14.7	74.8	--
	08-13-99	--	7.52	7.51	850	815	16.1	170.2	--
	03-21-00	--	7.80	7.54	641	642	14.0	93.6	--
	08-10-00	--	7.72	7.38	660	594	15.9	103.3	--
	03-07-01	--	7.50	7.78	601	621	14.2	90.8	--
	08-08-01	--	7.56	7.52	843	873	16.5	167.5	--
	03-19-02	--	7.62	7.61	622	609	14.6	90.1	--
	08-27-02	--	7.34	7.39	1106	1165	16.7	243.1	--
	03-26-03	--	E7.0	7.5	368	--	14.5	29.9	--
	08-25-03	--	7.5	7.5	558	557	17.5	67.6	--
	04-05-04	--	7.4	7.5	565	599	14.6	80.8	--
	08-25-04	--	7.6	--	676	747	16.5	130	--
	04-20-05	--	7.6	7.5	730	775	15.5	118	--
	09-27-05	--	6.5	7.5	852	882	15.9	171	--
	08-22-06	--	7.5	7.3	926	885	16.0	190	--
	09-12-07	--	7.1	7.4	1100	1080	16.0	243	--
	09-23-08	--	--	7.2	--	1040	15.7	241	--
	09-29-09	--	--	7.6	--	1000	15.6	201	--
	10-13-10	--	--	7.6	--	972	15.6	218	--
	07-22-11	--	--	7.4	--	1200	16.7	280	--
	10-04-12	--	--	7.6	--	1220	15.8	285	--
	09-13-13	--	--	7.2	--	1120	16.0	256	--
	09-11-15	--	--	7.4	--	1110	16.4	280	--
	09-25-17	--	--	7.44	--	1127	16.1	228	--
QA Ea 45	08-17-83	--	7.40	7.40	353	360	17.0	4.7	--
	10-15-85	--	--	--	350	--	--	4.5	--
	06-15-88	15.84	--	7.62	351	343	16.3	5.4	--
	05-17-90	--	--	7.70	348	340	16.0	6.6	<.01
	05-21-91	--	--	7.24	355	355	17.0	6.6	0.020
	08-28-91	--	--	7.28	356	330	17.0	6.4	0.030
	03-17-92	--	--	7.97	357	359	15.6	6.3	0.030
	08-11-92	--	--	7.71	351	365	16.0	7.2	<.01
	03-11-93	--	--	7.71	358	363	14.9	4.8	<.01
	08-20-93	--	--	7.69	356	361	16.2	5.1	0.010

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Ea 45	03-18-94	--	7.80	7.72	351	360	14.8	4.7	0.060
(continued)	08-10-94	--	7.50	7.64	357	360	15.9	4.3	0.020
	03-16-95	--	7.70	7.32	349	345	15.6	4.6	<.01
	08-30-95	--	7.60	7.60	353	363	15.8	4.6	0.020
	03-05-96	--	7.70	7.69	360	363	15.1	4.5	<.01
	08-28-96	--	7.50	7.58	350	359	16.1	4.7	<.01
	03-20-97	--	7.60	7.68	361	363	15.0	4.7	--
	08-18-97	--	7.75	7.45	340	363	15.7	5.0	--
	03-18-98	--	7.76	7.66	362	361	15.2	5.2	--
	09-09-98	--	7.71	7.73	360	356	15.7	5.2	--
	03-31-99	--	7.80	7.59	363	352	15.5	5.6	--
	08-16-99	--	7.69	7.89	358	351	16.3	6.3	--
	03-24-00	--	7.70	7.78	358	364	15.3	5.6	--
	08-17-00	--	7.66	7.62	358	363	16.1	6.1	--
	03-15-01	--	7.72	7.63	353	354	14.9	6.3	--
	08-06-01	--	7.67	7.55	358	362	16.4	7.1	--
	03-18-02	--	7.83	7.68	363	351	15.3	6.2	--
	08-27-02	--	8.10	7.55	352	374	16.4	7.45	--
	03-28-03	--	8.2	--	347	347	--	6.52	--
	08-27-03	--	7.5	7.5	340	364	16.7	8.22	--
	08-25-04	--	7.7	--	335	--	16.6	9.04	--
	04-20-05	--	7.8	7.5	340	366	15.8	8.95	--
	09-27-05	--	6.8	7.6	362	374	16.5	9.65	--
	09-28-06	--	7.8	7.5	363	366	16.3	10.7	--
	09-05-07	--	7.7	7.4	380	312	16.1	14.2	--
	09-23-08	--	--	7.1	--	368	15.9	16.4	--
	08-28-13	--	--	7.7	--	415	16.2	24.9	--
QA Ea 48	10-15-85	--	--	--	892	--	--	190.0	--
	06-16-88	--	--	7.51	1010	980	16.1	210.0	--
	05-16-90	--	--	7.42	944	940	15.0	210.0	0.720
	05-31-91	--	--	7.13	--	1150	16.0	*223.0	--
	08-27-91	--	--	7.12	1030	1120	17.0	240.0	0.750
	03-17-92	--	--	7.68	1030	1047	14.0	220.0	0.770
	08-11-92	--	--	7.32	1110	1136	16.2	240.0	0.550
	03-08-93	--	--	7.60	1050	1084	13.9	210.0	0.040
	08-19-93	--	--	7.41	1180	1204	15.3	270.0	0.360
	03-16-94	--	7.20	7.28	1100	1068	14.0	250.0	0.900



Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Ea 48 (continued)	08-09-94	--	6.80	7.60	1230	1252	16.3	300.0	1.000
	03-16-95	--	7.50	7.56	1120	1114	14.1	240.0	0.890
	08-22-95	--	7.70	7.50	1350	1304	15.9	310.0	1.100
	03-27-96	--	7.50	7.52	1220	1217	14.2	280.0	1.000
	09-05-96	--	7.30	--	1280	1166	15.6	300.0	0.910
	03-27-97	--	7.30	7.37	1210	1220	14.8	280.0	--
	08-21-97	--	7.46	7.29	1295	1429	15.6	346.5	--
	03-25-98	--	7.38	7.43	1232	1244	14.7	283.1	--
	09-09-98	--	7.37	8.43	1470	1411	15.3	348.4	--
	03-17-99	--	7.37	7.23	1263	1185	14.8	292.6	--
	08-12-99	--	7.37	7.35	1450	1327	15.8	363.5	--
	03-16-00	--	7.69	6.97	1289	1319	14.9	302.9	--
	08-17-00	--	7.34	7.38	1400	1419	15.7	341.1	--
	03-08-01	--	7.29	7.45	1330	1305	14.8	309.2	--
	08-02-01	--	7.36	7.41	1360	1390	15.9	335.8	--
	03-19-02	--	7.34	7.43	1350	1325	15.0	318.2	--
	08-21-02	--	7.11	7.31	1573	1751	16.9	376.7	--
	03-26-03	--	7.0	7.3	1390	--	15.1	340	--
	08-27-03	--	7.1	7.2	1490	1570	16.1	384	--
	04-05-04	--	7.2	7.3	1490	1510	15.0	373	--
	08-24-04	--	7.3	7.3	1460	1540	16.7	376	--
	04-21-05	--	7.4	7.3	1410	1550	15.2	379	--
	09-27-05	--	6.4	7.3	1670	1760	16.6	438	--
08-22-06	--	7.4	7.5	1680	1680	15.9	430	--	
08-30-07	--	7.6	7.2	1680	1750	16.2	424	--	
QA Ea 52	10-15-85	--	--	--	712	--	--	140.0	--
	06-16-88	--	--	7.47	830	813	17.1	170.0	--
QA Ea 53	02-18-86	--	--	--	331	--	--	14.0	--
	05-17-90	--	--	7.71	345	390	15.0	14.0	0.040
QA Ea 57	10-15-85	--	--	--	853	--	--	170.0	--
	05-18-90	--	--	7.80	979	950	15.0	240.0	0.800
	08-21-07	--	7.3	7.6	1810	1780	--	494	--
	09-23-08	--	--	6.8	--	1470	16.1	504	--
	09-29-09	--	--	7.6	--	1990	15.8	519	--

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)	
			Lab	Field	Lab	Field				
QA Ea 57 (continued)	10-11-12	--	--	7.5	--	2030	16.0	582	--	
	09-10-13	--	--	7.6	--	2150	16.1	498	--	
	09-14-15	--	--	7.4	--	2130	17.0	660	--	
	08-03-17	--	--	7.54	--	2262	16.4	640	--	
QA Ea 59	10-15-85	--	--	--		523	--	68.0	--	
	06-16-88	--	--	7.95		629	619	17.7	100.0	--
	05-15-90	--	--	8.02		608	520	16.0	100.0	0.300
	05-20-91	--	--	7.97		615	630	16.0	120.0	0.330
	08-27-91	--	--	7.57		633	630	17.0	110.0	0.350
	03-17-92	--	--	8.20		622	629	15.2	100.0	0.330
	08-11-92	--	--	7.90		625	650	16.7	100.0	0.360
	03-09-93	--	--	7.89		605	637	15.1	96.0	0.330
	08-20-93	--	--	7.79		629	650	16.5	100.0	0.360
	03-16-94	--	7.60	--		642	650	14.9	100.0	0.360
	08-09-94	--	7.80	7.96		638	645	17.0	110.0	0.370
	03-16-95	--	7.60	7.58		642	641	15.8	92.0	0.370
	08-29-95	--	7.70	7.76		634	661	16.7	110.0	0.360
	03-05-96	--	7.60	7.87		628	655	15.0	110.0	0.320
	08-20-96	--	7.00	7.70		631	655	16.4	100.0	0.370
	03-12-97	--	7.60	7.69		652	665	15.3	110.0	--
	08-19-97	--	7.84	7.72		610	645	16.1	105.9	--
	03-18-98	--	7.85	7.86		618	621	15.0	97.1	--
	09-09-98	--	7.66	7.88		623	608	16.1	96.6	--
	03-24-99	--	7.80	7.88		599	583	15.3	92.4	--
	08-10-99	--	7.90	7.67		585	569	16.3	86.5	--
	03-29-00	--	7.79	7.74		585	593	15.3	86.8	--
	08-09-00	--	7.91	7.67		586	546	16.4	85.3	--
	03-14-01	--	7.82	7.95		576	595	15.3	86.7	--
	08-07-01	--	7.81	7.83		574	590	16.7	90.5	--
	03-13-02	--	7.87	7.90		596	591	15.3	87.2	--
	08-28-02	--	6.84	7.62		545	628	16.1	86.1	--
	03-19-03	--	7.8	7.9		558	569	15.3	86.1	--
	08-26-03	--	7.7	7.7		566	593	16.5	88.2	--
	04-07-04	--	8.2	7.7		E551	599	15.3	88.5	--
09-30-04	--	7.9	7.7		545	587	16.2	86.8	--	
04-18-05	--	7.9	7.8		558	582	15.5	90.1	--	
09-27-05	--	6.5	7.8		571	604	16.1	89.4	--	
08-23-06	--	7.9	7.6		591	579	16.2	92.4	--	
09-12-07	--	7.7	7.7		597	579	16.3	89.4	--	

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Ea 59 (continued)	09-10-08	--	--	7.9	--	589	16.2	90.2	--
	09-02-09	--	--	8.0	--	610	16.2	89.1	--
	10-13-10	--	--	7.7	--	586	15.9	92.4	--
	07-22-11	--	--	7.8	--	597	16.8	95.2	--
	10-09-12	--	--	7.9	--	618	16.0	100	--
	08-28-13	--	--	7.9	--	627	16.3	97.8	--
	09-14-15	--	--	7.8	--	610	16.1	110	--
	08-02-17	--	--	7.91	--	631	16.6	111	--
QA Ea 60	08-18-83	--	7.60	7.60	870	860	18.0	190.0	--
	10-15-85	--	--	--	928	--	--	200.0	--
	06-15-88	--	--	7.54	994	960	16.7	220.0	--
	12-13-88	--	--	7.22	982	870	15.0	180.0	0.620
	03-14-89	--	--	7.64	905	764	14.5	200.0	0.690
	05-16-89	--	--	7.36	937	840	15.4	200.0	0.680
	08-14-89	--	--	7.74	959	745	15.5	230.0	0.810
	05-17-90	--	--	7.65	939	960	16.0	220.0	0.600
	05-30-91	--	--	7.21	1030	1180	17.0	270.0	0.820
	08-28-91	--	--	7.17	1150	1120	18.0	280.0	0.910
	08-11-92	--	--	7.69	1170	1200	16.0	270.0	0.960
	08-20-93	--	--	7.48	1240	1280	15.7	300.0	0.570
	08-10-94	--	7.80	7.47	1260	1253	15.7	310.0	1.100
	03-17-95	--	7.40	7.30	1340	1308	15.1	330.0	1.200
	08-23-95	--	7.50	7.10	1480	1390	15.5	370.0	1.300
	03-28-96	--	7.30	7.52	1420	1421	14.9	350.0	1.300
	10-17-96	--	7.40	7.59	1510	1359	16.0	400.0	0.620
	03-20-97	--	7.30	7.63	1560	1630	15.1	400.0	--
	08-26-97	--	7.80	7.67	1900	1928	16.1	407.7	--
	03-12-98	--	7.50	7.63	1480	1483	14.8	378.6	--
	09-14-98	--	7.28	7.46	1620	1574	15.8	412.0	--
	03-24-99	--	7.54	7.59	1560	1430	15.0	422.5	--
	08-10-99	--	7.25	7.18	1650	1527	15.9	*452.0	--
	03-22-00	--	7.57	7.53	1620	1637	15.0	417.8	--
	08-08-00	--	7.42	7.32	1640	1637	15.9	423.6	--
	03-07-01	--	7.35	7.80	1660	1638	15.1	446.2	--
	08-08-01	--	7.35	7.58	1660	1723	16.8	461.1	--
	03-13-02	--	7.47	7.60	1710	1706	15.1	447.1	--
	08-27-02	--	7.57	7.55	E1845	1964	16.5	492.1	--
	04-02-03	--	7.2	7.5	1400	1780	15.4	361	--

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)	
			Lab	Field	Lab	Field				
QA Ea 60 (continued)	08-26-03	--	7.4	7.5	1700	1840	16.8	492	--	
	04-06-04	--	8.0	7.5	E1660	1870	15.0	509	--	
	08-26-04	--	7.4	7.7	1790	1890	16.4	508	--	
	04-20-05	--	7.4	7.5	1820	1780	16.0	514	--	
	09-28-05	--	6.2	7.5	1880	1940	16.4	531	--	
	08-22-06	--	7.2	7.3	2070	1900	15.8	575	--	
	10-23-09	--	--	7.4	--	2100	15.5	540F	--	
	10-15-10	--	--	7.4	--	2050	15.6	586	--	
	07-20-11	--	--	7.3	--	2100	16.6	624	--	
	10-03-12	--	--	7.5	--	2100	16.2	597	--	
	09-10-13	--	--	7.6	--	2210	15.8	576	--	
	09-14-15	--	--	7.4	--	2120	16.6	630	--	
	08-08-17	--	--	7.44	--	2256	16.6	655	--	
	QA Ea 61	09-06-83	--	--	--	1530	--	--	370.0	--
		10-15-85	--	--	--	1640	--	--	430.0	--
		06-16-88	--	--	7.39	2040	1935	16.9	560.0	--
		12-13-88	--	--	6.95	2110	1683	14.5	520.0	1.800
06-12-90		--	--	7.26	2290	2300	16.0	650.0	--	
08-26-91		--	--	6.97	2530	2450	17.0	810.0	2.300	
03-19-92		--	--	7.58	2660	2720	14.1	760.0	2.700	
08-10-92		--	--	7.42	2780	2820	16.1	790.0	2.300	
03-11-93		--	--	7.26	2980	3020	14.4	860.0	2.900	
03-18-94		--	7.70	7.31	3890	3970	14.1	980.0	3.200	
03-29-96		--	6.90	7.31	3280	3220	14.2	970.0	4.200	
08-28-96		--	6.90	7.25	3230	3260	15.3	980.0	3.500	
03-12-97		--	7.00	7.14	3380	3440	14.5	980.0	--	
08-18-97		--	7.07	7.03	3350	3520	15.1	1064.7	--	
03-25-98		--	6.94	7.27	3630	3560	14.5	1085.5	--	
09-09-98		--	6.83	7.30	3890	3370	15.0	1150.1	--	
03-31-99		--	7.03	7.21	3920	3060	14.6	1197.5	--	
08-13-99		--	6.93	7.26	4140	3180	15.3	1322.0	--	
03-22-00		--	7.19	7.15	4200	4270	14.4	1291.7	--	
08-17-00		--	6.87	7.21	4300	4340	15.2	1328.2	--	
03-13-01		--	6.83	7.27	4330	4270	14.5	1344.9	--	
08-08-01		--	6.86	7.23	4520	4780	16.0	1439.3	--	
03-13-02		--	6.88	7.25	4730	4770	14.6	1523.7	--	
08-27-02	--	6.34	7.12	5117	5550	15.7	1627.6	--		
04-02-03	--	6.7	7.1	4220	5220	14.9	1020	--		

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)	
			Lab	Field	Lab	Field				
QA Ea 61 (continued)	08-25-03	--	6.8	--	4760	5450	14.4	1690	--	
	04-06-04	--	7.6	--	5340	5510	14.6	1700	--	
	08-26-04	--	6.8	7.0	5080	5610	15.6	1770	--	
	04-21-05	--	6.8	7.1	5420	5810	15.4	1830	--	
	09-27-05	--	5.6	7.1	5900	6140	15.7	1950	--	
	09-28-06	--	6.8	7.0	6280	5960	15.5	2040	--	
	09-05-07	--	6.8	6.9	6850	6500	15.6	2220	--	
	09-24-09	--	--	7.0	--	7120	15.5	2530	--	
	07-21-11	--	--	6.9	--	7530	16.3	2830	--	
	10-04-12	--	--	7.1	--	8280	15.6	2880	--	
	08-29-13	--	--	7.1	--	8840	16.1	2580	--	
	QA Ea 71	08-03-83	--	--	--	377	--	--	40.0	--
		10-15-85	--	--	--	447	--	--	35.0	--
05-17-90		--	--	7.74	491	490	16.0	45.0	0.160	
05-30-91		--	--	7.23	574	575	17.0	91.0	0.250	
08-27-91		--	--	7.22	625	620	17.0	92.0	0.320	
03-16-92		--	--	7.68	612	622	14.6	94.0	0.300	
08-10-92		--	--	7.59	624	637	16.2	95.0	0.310	
03-08-93		--	--	7.75	607	625	14.7	92.0	0.290	
08-23-93		--	--	7.57	584	599	16.2	83.0	0.280	
03-18-94		--	7.40	7.65	661	666	14.6	100.0	0.350	
08-29-95		--	7.50	7.45	743	788	16.0	140.0	0.470	
08-28-96 †		--	7.70	8.37	287	293	24.2	21.0	<.01	
03-27-97 †		--	7.50	7.58	330	333	11.1	20.0	--	
QA Ea 77	08-01-84	--	6.30	7.00	15600	15400	15.0	6000.0	--	
	11-18-88	13.10	--	6.99	--	20000	16.0	7200.0	20.000	
	03-14-89	12.33	--	6.72	16000	13550	15.5	5900.0	20.000	
	05-17-89	12.68	--	6.59	16000	16160	17.9	5800.0	19.000	
	08-16-89	12.83	6.20	6.90	16100	13340	16.0	5800.0	20.000	
	11-15-89	12.67	--	6.91	16300	--	16.0	5500.0	18.000	
	02-20-90	13.33	--	7.25	15200	15350	16.0	5300.0	18.000	
	05-14-90	12.75	--	--	15400	--	15.5	5900.0	20.000	
	08-24-90	12.65	--	6.90	15900	17500	16.5	5700.0	20.000	
	11-26-90	13.03	--	6.80	16000	17000	16.5	6000.0	20.000	

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Ea 77	02-11-91	12.66	--	6.61	16000	17500	14.2	6500.0	20.000
(continued)	06-06-91	12.46	--	6.44	16000	20000	16.0	6000.0	19.000
	08-20-91	12.76	--	6.86	16300	20000	16.5	6000.0	19.000
	03-26-92	--	--	7.20	16100	16200	15.8	5500.0	20.000
	08-14-92	12.64	--	7.01	16200	16160	15.9	5500.0	5.900
	03-23-93	--	--	7.16	16200	16190	15.3	5500.0	20.000
	08-17-93	12.91	--	7.04	16000	15880	15.8	5700.0	19.000
	03-04-94	13.97	6.50	7.12	16500	16050	15.8	5900.0	9.600
	08-18-94	14.54	6.10	7.09	16200	15490	16.0	5800.0	21.000
	03-28-95	12.59	6.20	7.10	15900	14130	15.9	5800.0	20.000
	08-11-95	12.94	6.10	6.86	15500	15520	16.7	5700.0	20.000
	03-12-96	12.84	6.40	7.05	15800	16000	16.1	5800.0	21.000
	08-05-96	12.49	6.10	--	15900	16070	16.1	5900.0	20.000
	08-05-97	12.97	6.45	7.06	15000	16460	15.9	5862.3	--
	09-17-98	13.50	6.18	6.93	16500	12920	15.9	5805.5	--
	08-18-99	13.40	6.30	7.15	16700	--	16.3	6012.0	--
	08-23-00	12.71	6.39	7.13	16400	16920	16.1	6196.9	--
	08-13-01	13.30	6.50	7.19	16900	19160	15.8	6095.4	--
	09-09-02	13.35	6.71	7.11	E16690	18350	16.6	5779.1	--
	08-19-03	12.61	6.6	6.9	E16400	17600	16.6	5920	--
	08-30-04	13.09	6.7	--	E14800	16500	17.2	6000	--
	09-12-05	13.06	6.6	7.1	E17100	17500	16.7	6030	--
	08-28-06	--	6.4	7.0	E17600	17200	--	6040	--
	09-06-07	--	7.0	6.9	E17400	16800	16.2	6100	--
	09-17-08	--	--	6.9	--	17700	15.8	6180	--
	09-14-09	13.26	--	7.3	--	17800	15.8	6240	--
	09-16-10	--	--	7.0	--	17300	16.8	6310	--
	08-08-11	--	--	7.0	--	17700	16.3	6490	--
	09-04-12	--	--	7.1	--	17700	16.2	6260	--
	09-06-13	--	--	7.1	--	17800	16.4	5420	--
	08-24-15	--	--	7.1	--	17100	16.3	6900	--
	08-14-17	--	--	7.11	--	18360	16.9	6050	--
QA Ea 78	07-31-84	--	7.40	7.60	301	302	15.0	4.1	--
	11-28-88	12.83	--	6.97	--	--	15.5	3.7	0.028
	11-15-89	12.74	--	7.43	317	--	16.0	3.6	0.030
	05-14-90	12.91	--	--	319	--	15.5	5.6	0.010
	06-12-90	13.10	7.80	7.64	313	309	15.9	7.9	--

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Ea 78	08-13-90	12.97	--	7.59	314	310	17.0	7.1	0.020
(continued)	12-03-90	13.57	--	7.10	327	310	14.6	10.0	0.020
	02-11-91	12.78	--	7.17	344	320	14.2	12.0	0.020
	05-28-91	12.15	7.70	7.75	306	307	16.2	5.9	--
	06-06-91	12.54	--	7.09	320	330	16.0	8.5	0.040
	08-20-91	12.79	--	7.30	313	310	17.0	3.7	0.020
	04-02-92	12.80	--	7.67	312	320	15.0	5.4	0.030
	04-02-92	12.80	7.70	7.67	316	320	15.0	5.3	--
	08-14-92	12.71	--	7.55	316	325	15.8	6.2	0.010
	03-23-93	--	--	7.62	315	323	15.1	4.3	<.01
	08-17-93	12.94	--	7.56	315	327	15.5	3.9	0.020
	08-17-93	12.94	7.70	7.56	315	327	15.5	4.2	--
	03-04-94	13.91	7.40	7.61	319	322	15.4	4.7	0.050
	08-18-94	15.84	7.30	7.60	313	321	16.7	5.1	<.01
	03-28-95	11.93	7.50	7.58	315	313	15.5	4.3	0.050
	08-11-95	13.08	7.60	7.58	312	320	16.0	4.2	0.040
	03-12-96	13.07	7.50	7.58	311	319	15.7	7.8	0.040
	08-05-96	--	7.50	7.57	319	319	16.0	4.7	0.020
	08-05-97	13.14	7.54	7.53	300	325	15.7	3.9	--
	09-18-98	13.41	7.61	7.34	322	319	15.7	4.1	--
	08-18-99	13.63	7.63	7.65	316	315	15.9	4.6	--
	08-23-00	12.86	7.71	7.68	327	321	15.9	4.2	--
	08-13-01	13.42	7.73	7.73	318	321	16.3	4.6	--
	09-09-02	13.55	7.66	7.57	299	335	16.5	4.5	--
	08-19-03	12.89	7.5	7.2	305	323	17.1	4.72	--
	08-30-04	13.28	7.6	--	313	329	16.0	4.11	--
	05-18-05	--	7.5	7.6	294	321	16.6	4.0	--
	09-12-05	13.34	7.7	7.5	317	323	16.1	4.02	--
	08-28-06	--	7.9	7.5	316	312	--	4.03	--
	09-06-07	--	7.8	7.5	315	307	16.1	3.79	--
	09-17-08	--	--	7.6	--	324	15.7	3.84	--
	09-14-09	13.03	--	7.4	--	334	15.7	3.85	--
	09-16-10	--	--	7.6	--	325	16.2	4.05	--
	08-08-11	--	--	7.6	--	330	16.3	3.7	--
	09-04-12	--	--	7.7	--	310	16.1	3.78	--
	09-06-13	--	--	7.7	--	318	16.6	3.44	--
	08-24-15	--	--	7.6	--	310	16.3	4.1	--
	08-14-17	--	--	7.61	--	308	16.3	4.3	--

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Ea 79	08-08-84	--	9.30	9.30	347	380	17.0	3.0	--
	12-07-88	11.01	--	10.02	--	314	15.0	1.8	<.01
	11-15-89	10.10	--	11.43	407	--	15.0	1.9	<.01
	11-30-89	10.78	--	9.97	298	--	15.0	1.9	<.01
	05-14-90	13.11	8.10	--	336	--	15.5	<.1	<.01
	08-13-90	--	--	9.40	326	330	17.0	6.0	0.010
	11-26-90	10.70	--	9.47	321	350	16.0	3.9	<.01
	02-12-91	10.49	--	8.76	325	330	15.0	3.6	0.020
	06-07-91	10.78	--	9.60	314	350	17.0	*6.0	0.010
	03-30-92	10.60	--	9.54	327	371	15.6	2.5	0.020
	08-18-92	10.17	--	9.63	328	373	16.4	0.8	<.01
	03-24-93	10.25	--	9.35	323	372	15.4	1.4	0.030
	08-17-93	12.34	--	<9.6	332	375	15.9	1.0	0.010
	03-04-94	12.35	8.80	9.63	329	370	15.2	1.4	0.010
	08-19-94	13.54	8.50	9.35	337	369	16.5	1.5	<.01
	03-15-96	10.17	8.50	9.22	329	361	15.7	1.4	0.020
	08-05-96	10.18	8.40	9.14	335	362	16.7	1.5	0.020
	08-11-97	11.99	8.38	9.04	330	367	16.4	1.3	--
	09-17-98	12.15	8.83	8.54	342	295	16.1	1.4	--
	08-20-99	12.14	8.86	9.38	334	352	16.0	2.1	--
	08-25-00	10.52	9.04	9.29	342	361	16.4	3.0	--
	08-14-01	11.40	8.79	9.25	352	364	16.6	1.7	--
	08-06-02	13.07	8.19	9.25	326	357	16.1	1.9	--
	08-21-03	10.61	8.9	9.0	343	358	17.2	1.73	--
	08-31-04	11.61	9.1	9.1	329	354	18.1	1.52	--
	09-16-05	11.36	7.5	9.0	342	353	16.8	1.41	--
	09-05-06	--	8.0	7.7	342	333	15.2	2.07	--
	09-04-07	--	9.0	8.9	360	354	16.9	1.41	--
	09-15-08	--	--	9.0	--	354	16.7	1.34	--
	09-17-09	10.62	--	9.0	--	360	17.4	1.42	--
	09-21-10	--	--	9.0	--	362	16.4	1.43	--
	08-11-11	--	--	8.9	--	369	16.4	1.4	--
	09-05-12	--	--	9.0	--	357	16.9	1.42	--
09-13-13	--	--	8.5	--	351	17.0	1.39	--	
09-03-15	--	--	9.0	--	345	17.6	1.9	--	
08-14-17	--	--	9.22	--	335	18.5	1.8	--	



Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Ea 80	08-08-84	--	7.70	7.70	348	335	15.0	2.6	--
	11-21-88	11.16	--	7.85	--	362	15.0	2.1	0.012
	11-15-89	11.37	--	7.70	356	--	15.0	2.0	0.030
	08-13-90	11.10	--	7.78	351	340	17.0	6.8	0.020
	12-03-90	11.31	--	7.76	352	330	14.6	4.2	<.01
	02-12-91	10.79	--	7.66	350	320	15.0	5.0	0.020
	05-21-91	10.57	--	7.14	343	355	15.0	1.0	0.020
	08-21-91	11.20	--	7.50	347	350	17.0	3.9	<.01
	03-20-92	10.90	--	8.06	352	351	15.0	3.8	0.030
	08-18-92	10.50	--	7.98	345	356	14.9	5.2	<.01
	03-24-93	10.54	--	7.69	341	354	14.6	2.4	<.01
	08-17-93	11.53	--	7.87	348	358	15.4	2.3	<.01
	03-01-94	--	7.70	7.82	351	355	14.5	*9.0	0.030
	08-19-94	13.97	7.60	7.93	348	352	14.9	2.2	<.01
	03-30-95	10.69	7.70	7.81	353	343	14.8	2.8	0.020
	08-15-95	11.20	7.60	7.83	350	350	15.1	6.8	0.030
	03-15-96	10.29	7.70	7.86	342	349	15.0	2.2	0.010
	08-05-96	10.38	7.70	7.79	350	350	15.1	2.2	<.01
	08-11-97	11.24	7.48	7.79	329	355	15.3	2.0	--
	09-17-98	12.44	7.82	7.26	351	279	15.0	2.1	--
	08-20-99	12.23	7.87	7.86	350	345	15.0	2.7	--
	08-25-00	10.50	7.83	7.92	350	354	15.5	2.3	--
	08-14-01	11.61	7.94	8.10	349	351	15.1	2.6	--
	08-06-02	13.39	E7.36	7.8	330	346	15.7	2.0	--
	08-21-03	--	7.8	7.8	338	352	15.3	2.52	--
	08-31-04	11.61	7.9	7.7	331	355	15.2	2.08	--
	09-16-05	11.53	7.1	7.8	341	344	15.4	2.29	--
	09-05-06	--	9.1	9.1	351	341	16.7	1.45	--
	09-04-07	--	8.0	7.8	348	343	15.7	2.17	--
	09-15-08	--	--	7.5	--	345	15.3	2.02	--
	09-17-09	10.82	--	7.8	--	359	15.3	2.10	--
	09-21-10	--	--	7.9	--	348	15.4	2.12	--
	08-11-11	--	--	7.2	--	357	15.6	2.1	--
09-05-12	--	--	7.9	--	348	15.6	2.14	--	
09-13-13	--	--	7.5	--	349	15.5	2.20	--	
09-03-15	--	--	7.8	--	341	15.8	2.9	--	
08-14-17	--	--	7.91	--	345	15.4	2.8	--	

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Ea 81	07-30-84	--	7.60	7.70	642	640	15.0	110.0	--
	12-08-88	12.66	--	7.25	--	447	15.9	14.0	0.060
	11-15-89	11.85	--	7.43	409	--	15.0	3.9	0.030
	08-24-90	11.66	--	7.81	472	410	17.5	26.0	0.090
	11-26-90	12.49	--	7.61	521	500	16.0	43.0	0.150
	02-11-91	12.29	--	7.48	555	510	14.2	54.0	0.180
	06-06-91	12.32	--	7.41	548	550	16.0	100.0	0.200
	08-20-91	12.62	--	7.03	533	550	17.0	54.0	0.210
	03-30-92	12.40	--	8.02	567	569	16.0	67.0	0.250
	08-14-92	11.83	--	7.79	575	583	16.6	71.0	0.260
	03-23-93	11.99	--	7.89	573	585	15.6	78.0	0.280
	08-17-93	12.64	--	7.81	579	590	16.2	68.0	0.280
	03-04-94	14.02	7.60	7.87	589	594	15.9	78.0	0.310
	08-18-94	14.50	--	7.79	569	573	16.5	75.0	0.270
	05-11-95	12.18	7.60	7.22	564	539	16.6	63.0	0.250
	08-11-95	12.67	7.40	7.73	586	598	17.7	78.0	0.310
	03-12-96	12.67	7.60	7.73	575	593	16.4	80.0	0.310
	08-02-96	11.97	7.60	7.71	608	607	16.7	88.0	0.320
	08-05-97	12.72	7.71	7.74	541	584	16.4	70.3	--
	09-18-98	12.95	7.78	7.54	564	559	16.2	64.7	--
	08-18-99	13.07	7.69	7.81	537	524	17.2	54.9	--
	08-23-00	12.37	7.81	7.89	557	538	16.6	60.6	--
	08-13-01	12.84	7.83	7.89	570	574	16.1	70.1	--
	08-20-02	13.93	E7.43	7.6	517	582	18.0	48.4	--
	08-19-03	12.41	7.8	7.9	534	561	16.9	59.3	--
	08-30-04	12.74	7.7	--	490	499	18.4	38.4	--
	09-12-05	12.68	7.7	7.8	495	491	17.1	32.2	--
	08-28-06	--	7.9	7.8	557	534	--	55.4	--
	09-06-07	--	7.9	7.7	554	553	17.2	56.9	--
	09-17-08	--	--	7.8	--	548	17.1	52.8	--
	09-14-09	12.49	--	7.9	--	587	16.2	64.6	--
	09-16-10	--	--	7.8	--	594	16.7	80.2	--
08-08-11	--	--	7.7	--	607	17.6	73.2	--	
09-04-12	--	--	7.9	--	588	16.6	77.1	--	
09-06-13	--	--	7.9	--	591	17.9	73.3	--	
08-24-15	--	--	7.8	--	563	17.5	74	--	
08-14-17	--	--	7.87	--	587	--	74.3	--	

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Ea 82	05-30-91	--	--	7.50	901	910	17.0	160.0	0.700
	08-28-91	--	--	7.22	--	900	18.0	*213.0	--
	03-17-92	--	--	7.94	931	950	14.9	210.0	0.730
	08-11-92	--	--	7.67	935	962	16.0	210.0	0.630
	03-09-93	--	--	7.57	954	992	14.7	210.0	0.420
	08-20-93	--	--	7.55	965	989	15.9	210.0	0.490
	03-16-94	--	7.40	--	993	999	14.3	220.0	0.790
	08-09-94	--	7.50	7.61	1000	1025	16.0	220.0	0.820
	03-16-95	--	7.40	7.27	1020	1024	15.2	230.0	0.870
	08-29-95	--	7.40	7.50	998	1061	15.9	240.0	0.570
	03-05-96	--	7.40	7.55	1010	1076	14.8	240.0	0.880
	08-20-96	--	7.10	7.35	1010	1058	15.7	240.0	0.890
	03-12-97	--	7.40	7.41	1070	1088	14.7	240.0	--
	08-19-97	--	7.18	7.44	994	1085	15.8	243.5	--
	03-12-98	--	7.58	7.59	1093	1106	14.6	251.6	--
	09-18-98	--	7.52	7.21	1076	1061	15.7	249.0	--
	03-17-99	--	7.52	7.32	1119	1056	15.0	265.4	--
	08-10-99	--	7.52	7.51	1113	1056	16.8	263.3	--
	03-22-00	--	7.73	7.43	1157	1179	14.9	276.0	--
	08-08-00	--	7.57	7.22	1145	1132	16.2	275.6	--
	03-07-01	--	7.45	7.46	1176	1187	14.8	286.5	--
	08-02-01	--	7.55	7.48	1136	1163	17.3	283.7	--
	03-13-02	--	7.60	7.51	1154	1157	15.0	276.6	--
	08-27-02	--	7.25	7.54	1155	1221	16.8	272.2	--
	03-28-03	--	7.4	7.6	1130	1140	14.4	270	--
	08-26-03	--	7.4	7.5	1120	1170	7.5	276	--
	08-26-04	--	7.5	7.8	1050	1150	16.8	273	--
	04-13-05	--	7.5	7.1	1100	1130	15.0	280	--
	09-27-05	--	6.7	7.6	1170	1210	16.8	286	--
	08-22-06	--	7.6	7.3	1200	1140	16.3	292	--
	09-12-07	--	7.7	7.4	1310	1290	16.3	318	--
	09-23-08	--	--	7.2	--	1290	16.1	342	--
	09-29-09	--	--	7.5	--	1510	15.6	391	--
10-15-10	--	--	7.3	--	1620	15.5	446	--	
09-26-11	--	--	--	--	1660	16.1	459	--	
10-11-12	--	--	7.6	--	1720	15.6	473	--	
09-10-13	--	--	7.6	--	1840	16.3	437	--	
09-17-15	--	--	7.4	--	2130	16.3	580	--	
08-08-17	--	--	7.53	--	2419	16.1	581	--	

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Ea 83	05-30-91	--	--	7.46	--	390	17.0	*26.0	--
	08-28-91	--	--	7.29	381	380	18.0	15.0	0.070
	03-17-92	--	--	7.94	380	384	14.9	21.0	0.070
	08-11-92	--	--	7.73	376	391	16.1	22.0	0.050
	03-09-93	--	--	7.74	379	395	14.5	20.0	0.050
	08-20-93	--	--	7.62	390	397	16.0	19.0	0.060
	03-16-94	--	7.50	--	398	401	14.5	21.0	0.070
	08-09-94	--	7.40	7.59	402	408	15.9	23.0	0.090
	03-16-95	--	7.40	7.44	386	396	15.0	19.0	0.080
	08-29-95	--	7.50	7.58	405	421	15.7	26.0	0.100
	03-28-96	--	7.50	7.71	406	415	14.9	25.0	0.090
	08-28-96	--	7.40	7.67	408	418	15.7	29.0	0.110
	03-12-97	--	7.70	7.59	427	427	14.6	31.0	--
	08-19-97	--	7.54	7.48	399	420	15.6	26.2	--
	03-18-98	--	7.69	7.67	402	403	14.7	21.3	--
	09-14-98	--	7.51	7.49	396	394	15.9	20.5	--
	03-23-99	--	7.90	7.69	390	382	14.7	18.3	--
	08-10-99	--	7.65	7.82	385	376	15.5	16.0	--
	08-08-00	--	7.63	7.43	378	371	15.9	12.5	--
	03-07-01	--	7.73	--	372	371	14.6	8.4	--
	08-02-01	--	7.93	7.70	361	360	15.9	6.0	--
	03-13-02	--	8.03	7.72	363	350	14.9	5.14	--
	08-27-02	--	7.49	7.60	354	384	15.9	5.14	--
	09-30-08	--	--	7.6	--	524	15.5	59.8	--
	09-23-09	--	--	7.6	--	541	15.7	64.7	-
	10-15-10	--	--	--	--	481	15.3	49.8	--
09-26-11	--	--	--	--	440	16.0	36.5	--	
10-03-12	--	--	7.6	--	543	15.9	67.5	--	
09-03-13	--	--	7.7	--	583	15.8	75.4	--	
QA Eb 123	04-26-83	--	--	--	221	--	--	4.4	--
	03-04-86	--	--	--	379	--	--	11.0	--
	06-16-88	7.62	--	7.37	390	364	17.6	17.0	--
QA Eb 124	04-27-83	--	--	--	302	--	--	4.3	--
	03-04-86	--	--	--	370	--	--	4.0	--
	06-16-88	16.00	--	7.68	352	326	16.8	4.4	--

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Eb 144	07-13-83	--	7.80	7.80	429	440	16.0	6.3	--
	03-31-99	--	8.15	7.87	437	423	15.9	4.9	--
	08-09-01	--	8.02	7.88	415	419	16.6	5.1	--
	03-20-02	--	7.98	7.92	428	409	15.5	4.4	--
	08-27-02	--	7.60	7.78	416	447	16.2	4.8	--
	08-27-03	--	7.8	7.7	394	420	16.2	5.3	--
	04-06-04	--	8.1	7.6	391	426	15.5	5.65	--
	08-26-04	--	7.9	--	382	419	16.2	4.52	--
	04-19-05	--	8.0	7.6	382	418	15.8	4.88	--
	09-28-05	--	6.9	7.7	410	422	16.3	4.82	--
	09-25-06	--	8.0	7.6	410	396	16.2	4.94	--
	09-17-07	--	7.6	7.8	419	412	16.2	4.85	--
	09-19-08	--	--	7.9	--	415	16.1	4.83	--
	09-25-09	--	--	7.8	--	425	16.1	4.84	--
	10-12-10	--	--	7.8	--	413	16.1	4.94	--
	07-21-11	--	--	7.7	--	406	17.4	5.0	--
	09-26-12	--	--	7.9	--	420	16.1	4.81	--
	09-10-13	--	--	8.0	--	427	16.2	4.38	--
	09-14-15	--	--	7.8	--	412	16.0	5.7	--
	09-25-17	--	--	7.78	--	465	16.3	5.2	--
QA Eb 155	08-20-84	7.50	7.70	7.80	329	330	15.5	2.2	--
	11-29-88	9.54	--	7.27	--	327	14.7	1.6	0.021
	11-15-89	8.35	--	7.74	328	--	15.0	4.5	0.030
	03-26-92	8.20	--	7.99	335	330	16.1	2.9	0.020
	08-19-92	9.20	--	7.86	329	336	16.2	1.5	<.01
	03-24-93	8.10	--	7.72	328	333	15.8	1.8	<.01
	08-16-93	10.67	--	7.86	328	335	16.0	1.9	<.01
	03-07-94	--	7.60	7.97	332	333	15.9	1.8	0.020
	08-18-94	13.30	--	7.87	325	329	16.3	1.9	<.01
	03-28-95	8.90	7.70	7.88	332	323	16.0	*0.90	0.070
	08-16-95	10.76	7.70	7.87	322	329	16.5	1.7	0.020
	03-26-96	9.01	7.70	7.92	333	329	16.1	1.7	0.020
	08-08-96	9.88	7.60	7.22	335	332	16.3	1.9	0.010
	08-05-97	--	7.69	7.80	312	330	16.1	1.7	--
	09-15-98	11.57	7.79	7.73	330	326	16.2	1.9	--

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)	
			Lab	Field	Lab	Field				
QA Eb 155 (continued)	08-20-99	11.96	7.88	7.92	327	322	16.3	1.5	--	
	08-24-00	10.21	7.89	7.92	325	331	16.2	1.7	--	
	08-14-01	11.07	7.95	8.02	329	329	16.3	2.2	--	
	08-23-02	13.63	7.48	7.84	318	359	19.4	2.5	--	
	08-21-03	--	7.7	7.8	313	327	17.2	2.13	--	
	09-15-05	11.54	7.2	8.1	1660	1790	16.5	366	1.84	
	10-16-08	--	--	8.1	406	407	16.4	11.9	--	
	09-17-09	11.02	--	8.2	--	379	16.2	5.05	--	
	10-26-10	--	--	8.3	--	345	16.3	3.33	--	
	08-16-11	--	--	8.4	--	346	16.3	2.4	--	
	09-07-12	--	--	8.3	--	323	16.3	1.92	--	
	09-17-13	--	--	7.9	--	326	16.0	1.84	--	
	09-03-15	--	--	8.1	--	316	16.3	2.6	--	
	08-17-17	--	--	8.20	--	330	17.4	5.4	--	
	QA Eb 156	07-23-84	15.00	6.50	7.10	15100	14800	15.0	5600.0	--
		11-30-88	13.61	--	6.40	--	11450	15.8	6900.0	20.000
03-17-89		13.55	--	6.75	15800	15540	16.1	5100.0	20.000	
05-19-89		13.18	--	6.76	15000	13660	16.0	5300.0	18.000	
08-16-89		13.46	--	6.66	15500	12830	15.5	5800.0	17.000	
12-01-89		13.58	--	6.71	14600	--	15.2	5200.0	17.000	
02-27-90		13.84	--	7.24	15200	14520	15.9	5500.0	19.000	
06-12-90		13.87	--	6.89	16600	18000	19.0	7700.0	--	
08-07-90		--	--	6.70	16100	17500	17.0	6400.0	21.000	
11-28-90		13.97	--	6.22	16800	17000	15.5	5700.0	21.000	
02-15-91		13.42	--	6.22	16900	18000	14.0	6400.0	23.000	
05-16-91		13.49	--	6.24	17400	20500	16.0	6800.0	21.000	
08-23-91		14.10	--	6.40	17500	20000	17.0	7300.0	21.000	
03-26-92		13.80	--	6.85	17300	17330	15.5	6500.0	22.000	
08-18-92		13.42	--	6.91	17700	17520	16.0	6200.0	14.000	
04-06-93		12.85	--	7.00	18000	16730	15.3	4500.0	13.000	
08-16-93		12.10	--	6.78	17800	17280	16.2	6600.0	21.000	
03-17-94		16.00	6.20	7.07	18500	16990	15.3	6600.0	23.000	
08-25-94		16.24	--	6.83	18600	16470	15.7	6900.0	22.000	
03-29-95		13.84	6.30	6.93	18500	15830	15.7	6800.0	24.000	
08-15-95		14.30	5.90	6.84	17400	18650	16.0	7000.0	25.000	
03-12-96		--	6.30	6.92	18100	18060	15.6	7000.0	24.000	
08-08-96		13.51	6.20	6.86	18500	17470	15.7	7000.0	61.000	
08-08-97	13.99	6.22	6.90	16400	18100	15.4	6586.5	--		
09-15-98	14.25	6.20	6.58	17800	14290	15.8	6692.8	--		

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Eb 156	08-17-99	14.67	6.26	6.89	18800	--	16.0	6984.9	--
(continued)	08-24-00	13.80	6.44	6.95	19400	20000	15.8	7451.8	--
	08-15-01	14.61	6.39	6.97	20000	>20000	15.8	7510.4	--
	08-22-02	15.81	E6.26	6.91	E20430	23500	17.2	7464.0	--
	08-22-03	13.81	6.7	6.9	E18600	22000	16.8	7580	--
	09-02-04	14.87	6.5	--	E18100	--	15.9	8050	--
	09-14-05	14.75	6.7	6.8	E21800	22300	16.0	7660	--
	08-30-06	17.30	6.4	6.8	E22200	21300	--	7940	--
	09-04-07	--	6.5	6.9	E22400	22300	15.5	7700	--
	09-17-08	--	--	6.9	--	22800	15.5	8180	--
	09-16-09	13.84	--	6.9	--	23300	15.3	8220	--
	09-21-10	--	--	6.7	--	23300	15.3	8970	--
	08-16-11	--	--	6.9	--	23800	15.6	9100	--
	09-06-12	--	--	6.9	--	23700	15.6	8520	--
	09-13-13	--	--	6.8	--	23700	15.6	8460	--
	08-27-15	--	--	7.0	--	23600	15.5	9300	--
	08-15-17	--	--	7.00	--	21410	16.3	9440	--
QA Eb 157	07-25-84	--	7.60	7.50	331	332	15.0	28.0	--
	11-30-88	12.79	--	6.97	--	300	14.7	3.9	0.027
	12-01-89	12.75	--	7.19	316	--	14.8	3.2	0.040
	06-13-90	12.17	--	7.35	333	330	19.0	5.6	--
	08-07-90	--	--	7.18	339	330	16.0	2.6	0.160
	12-06-90	14.58	--	6.97	345	330	14.8	7.1	0.020
	02-15-91	11.86	--	7.58	367	340	14.0	*20.0	0.070
	05-16-91	12.08	--	7.37	360	370	15.5	15.0	0.040
	08-23-91	12.80	--	7.09	335	330	16.0	8.9	0.040
	03-26-92	13.40	--	7.55	333	338	14.8	5.1	0.040
	08-18-92	11.97	--	7.56	333	342	15.0	5.6	<.01
	04-06-93	11.54	--	7.41	335	339	14.6	4.4	0.030
	08-16-93	13.04	--	7.42	333	342	15.5	3.5	0.020
	03-17-94	15.29	7.20	7.10	333	336	14.7	3.6	0.020
	08-25-94	15.07	--	7.45	338	333	14.9	8.0	0.040
	03-29-95	17.36	7.40	7.47	336	328	14.9	4.9	0.050
	08-15-95	12.81	7.40	7.43	333	336	14.9	4.3	0.040
	03-12-96	12.73	7.40	7.45	325	334	15.0	8.9	0.050
	08-08-96	13.02	7.30	7.36	336	332	14.9	4.8	0.020
	08-08-97	12.57	7.67	7.41	318	337	15.1	3.6	--

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Eb 157	09-15-98	12.86	7.51	7.25	334	331	14.8	4.6	--
(continued)	08-17-99	13.24	7.52	7.44	347	329	14.8	4.3	--
	08-24-00	12.29	7.53	7.48	335	350	15.4	5.1	--
	08-15-01	13.02	7.64	7.58	332	334	14.8	4.3	--
	08-22-02	14.19	7.12	7.42	320	365	17.7	4.2	--
	08-22-03	12.2	E7.3	7.4	304	338	15.0	4.1	--
	09-02-04	13.18	7.6	7.2	310	335	14.9	4.0	--
	09-14-05	13.03	7.5	7.3	327	338	15.0	4.12	--
	08-30-06	15.94	7.6	7.5	333	326	--	4.00	--
	09-04-07	--	7.7	7.5	331	272	15.0	4.10	--
	09-17-08	--	--	7.4	--	315	14.9	4.22	--
	09-16-09	12.15	--	7.5	--	334	14.8	4.26	--
	09-21-10	--	--	7.4	--	333	15.0	4.33	--
	08-16-11	--	--	7.5	--	341	15.2	4.7	--
	09-06-12	--	--	7.5	--	333	16.0	4.99	--
	09-13-13	--	--	7.3	--	330	15.1	4.60	--
	08-27-15	--	--	7.5	--	326	15.2	6.2	--
	08-15-17	--	--	7.27	--	298	15.2	13.3	--
QA Fa 49	06-02-83	--	--	--	796	--	--	150.0	--
	02-12-86	--	--	--	801	--	--	120.0	--
	06-15-88	--	--	7.62	906	878	16.6	160.0	--
	05-15-90	--	--	7.58	790	790	16.0	120.0	0.410
	05-21-91	--	--	7.13	890	900	17.0	160.0	0.550
	08-28-91	--	--	7.10	924	850	17.0	170.0	0.600
	08-11-92	--	--	7.70	934	960	17.0	170.0	0.510
	08-20-93	--	--	7.57	922	949	17.1	150.0	0.280
	08-16-95	--	7.40	7.62	903	958	17.3	170.0	0.630
	08-20-96	--	7.50	7.50	944	960	16.7	170.0	0.840
	08-26-97	--	7.60	7.50	946	1021	16.7	179.5	--
	09-14-98	--	7.68	7.54	938	970	16.5	179.0	--
	08-12-99	--	7.59	7.58	931	888	17.2	162.6	--
	09-04-02**	--	E7.14	7.65	1155	1163	--	216.9	--
	08-26-03**	--	7.9	7.6	974	1000	17.1	178	--
	04-07-04**	--	8.2	7.8	944	1000	16.5	172	--
	09-21-04**	--	7.4	7.5	946	1000	17.7	186	--
	04-13-05**	--	7.5	7.1	722	787	15.9	120	--
	10-05-05**	--	6.9	7.6	934	967	16.5	169	--
	09-26-06**	--	7.7	7.6	878	885	16.8	145	--



Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Fa 49	09-05-07**	--	7.6	7.5	967	949	17.0	173	--
(continued)	09-17-08	--	--	7.6	--	983	16.7	187	--
	09-24-09	--	--	7.6	--	1010	16.6	184	--
	10-12-10**	--	--	7.6	--	907	17.1	152	--
	07-22-11**	--	--	7.5	--	897	18.5	200	--
	10-04-12	--	--	7.6	--	1060	16.4	213	--
	08-28-13	--	--	7.7	--	1040	16.7	195	--
	09-17-15	--	--	7.5	--	1050	17.2	230	--
	08-01-17	--	--	7.61	--	1006	16.9	207	--
QA Fa 54	05-31-91	--	--	7.60	363	350	17.0	20.0	0.060
	09-04-91	--	--	7.25	--	350	17.0	*23.0	--
	03-19-92	--	--	7.94	353	354	15.3	14.0	0.050
	08-12-92	--	--	7.80	352	358	16.3	14.0	0.020
	03-11-93	--	--	7.76	352	355	15.3	11.0	0.040
	08-20-93	--	--	7.71	357	362	16.1	13.0	0.040
	03-18-94	--	7.60	7.81	361	354	15.0	13.0	0.060
	08-09-94	--	7.30	7.82	360	356	16.5	13.0	0.050
	03-16-95	--	7.70	7.69	364	360	15.6	15.0	0.060
	03-28-96	--	7.70	7.76	351	355	15.2	11.0	0.050
	09-05-96	--	7.80	--	362	346	16.5	13.0	0.040
	03-13-97	--	7.60	7.62	359	358	15.3	11.0	--
	08-19-97	--	7.87	7.64	344	357	16.1	11.1	--
	03-12-98	--	7.88	7.80	356	354	15.3	11.2	--
	09-10-98	--	7.79	7.69	353	348	15.9	11.0	--
	03-24-99	--	7.89	7.78	354	346	15.4	12.5	--
	08-11-99	--	7.93	7.89	355	346	16.3	11.6	--
	03-23-00	--	8.06	7.74	355	357	15.6	11.0	--
	08-09-00	--	7.86	7.52	351	327	16.4	10.8	--
	03-13-01	--	7.74	7.74	348	351	15.5	10.6	--
	08-07-01	--	7.78	7.78	345	352	16.2	11.5	--
	03-14-02	--	7.91	7.79	353	347	15.7	10.6	--
	08-28-02	--	7.57	7.61	352	375	16.4	10.7	--
	03-19-03	--	7.8	7.7	341	348	15.6	13.3	--
	08-28-03	--	7.6	7.5	330	351	16.9	11.3	--
	04-01-04	--	7.8	7.8	333	340	15.4	11.6	--
	08-26-04	--	7.7	--	318	354	17.1	10.8	--
	04-12-05	--	7.8	7.5	306	349	15.5	11	--
	09-30-05	--	7.1	7.6	352	355	16.3	11.2	--
	08-24-06	--	7.9	7.5	349	344	16.3	10.8	--

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Fa 54	09-10-07	--	8.1	7.6	353	339	16.9	11.2	--
(continued)	09-18-08	--	--	7.9	359	344	16.2	13.0	--
	09-23-09	--	--	7.7	--	355	16.4	11.8	--
	10-15-10	--	--	7.9	--	341	16.1	12.1	--
	10-11-12	--	--	7.9	--	346	16.0	12.0	--
	09-03-13	--	--	7.9	--	351	16.7	11.2	--
	09-22-15	--	--	7.6	--	339	16.3	13	--
	08-01-17	--	--	7.82	--	343	17.2	13.1	--
QA Fa 58	05-30-91	--	--	7.55	465	465	16.0	10.0	0.040
	08-29-91	--	--	7.45	--	450	18.0	*10.0	--
	09-01-92	--	--	7.87	466	470	16.0	12.0	0.030
	03-31-93	--	--	--	465	470	15.4	9.0	0.050
	08-20-93	--	--	7.90	463	475	16.4	8.5	0.030
	08-09-94	--	7.50	7.86	651	463	16.7	9.6	0.040
	08-22-95	--	8.00	7.80	459	455	16.5	9.2	0.040
	10-17-96	--	7.80	7.98	469	445	16.0	8.9	0.040
	08-21-97	--	8.04	7.74	452	468	16.2	9.1	--
	09-10-98	--	7.89	7.81	468	458	16.0	8.9	--
	08-11-99	--	8.06	7.86	467	453	16.5	9.4	--
	08-08-00	--	8.00	7.70	464	453	16.9	8.7	--
	08-07-01	--	7.70	7.83	461	463	17.5	9.0	--
	09-04-02	--	7.59	7.81	448	487	16.7	9.0	--
	03-24-03	--	8.0	7.9	435	453	15.5	7.6	--
	08-28-03	--	7.8	7.8	423	459	17.0	9.2	--
	08-27-04	--	7.8	--	451	466	16.6	8.9	--
	09-30-05	--	7.8	7.8	459	468	16.3	9.01	--
	09-26-06	--	8.1	7.8	452	457	16.2	8.69	--
	08-29-07	--	8.0	7.7	465	454	16.5	9.18	--
	09-18-08	--	--	8.0	--	441	16.2	9.66	--
	09-22-09	--	--	7.8	--	466	16.2	9.63	--
	10-08-10	--	--	7.8	--	456	16.2	10.0	--
	07-26-11	--	--	7.8	--	448	16.9	9.9	--
	10-09-12	--	--	8.0	--	457	16.0	9.92	--
	09-10-13	--	--	8.0	--	463	17.4	9.05	--

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Fa 60	07-07-83	--	7.70	7.90	415	415	15.5	11.0	--
	05-30-91	--	--	7.67	410	410	17.0	12.0	0.040
	03-19-92	--	--	8.48	413	415	15.5	12.0	0.040
	08-20-92	--	--	7.86	419	417	16.3	13.0	0.040
	03-31-93	--	--	--	415	420	14.7	10.0	0.050
	03-18-94	--	8.10	8.32	418	418	15.4	9.3	0.050
	03-17-95	--	7.80	7.76	412	408	15.4	9.7	0.070
	03-05-96	--	8.10	8.26	340	422	15.5	10.0	0.050
	08-28-96	--	8.00	8.07	404	416	21.9	9.6	0.040
	03-20-97	--	8.10	8.45	423	422	15.1	9.6	--
	08-26-97	--	8.58	8.41	413	432	26.4	10.7	--
	03-25-98	--	8.13	8.03	419	417	13.8	9.4	--
	09-14-98	--	8.29	8.27	425	423	22.2	9.3	--
	03-17-99	--	8.20	8.20	425	412	14.9	10.0	--
	08-12-99	--	8.19	8.27	433	411	21.8	10.5	--
	03-29-00	--	8.23	8.11	421	430	13.2	10.7	--
	08-08-00	--	8.27	7.96	419	414	22.4	9.4	--
	03-13-01	--	8.14	8.07	405	419	14.7	9.3	--
	08-07-01	--	8.26	8.07	417	414	21.9	9.8	--
	03-14-02	--	8.33	8.19	423	407	15.0	9.03	--
	08-29-02	--	8.07	8.18	414	404	22.3	9.9	--
	03-24-03	--	8.4	8.3	400	413	17.7	9.4	--
	08-28-03	--	8.1	8.1	396	415	--	10	--
	09-21-04	--	8.3	8.2	417	437	--	14	--
	04-20-05	--	8.3	8.0	382	422	28.1	9.5	--
	09-30-05	--	8.0	8.2	415	428	22.0	10.1	--
	09-28-06	--	8.4	8.1	408	418	--	9.4	--
08-29-07	--	8.2	8.0	472	496	29.4	14.3	--	
QA Fa 63	05-21-91	--	--	7.00	447	460	17.0	11.0	0.040
	08-28-91	--	--	6.95	448	450	17.0	11.0	0.040
	03-19-92	--	--	7.59	449	464	15.4	10.0	0.160
	08-11-92	--	--	7.32	447	468	16.0	11.0	0.020
	03-11-93	--	--	7.18	442	468	14.9	8.5	0.020
	08-23-93	--	--	7.31	449	461	15.7	8.0	0.040
	03-16-94	--	7.30	--	443	462	15.2	8.0	0.010
	08-09-94	--	7.10	7.21	448	463	15.9	9.1	0.050
	03-16-95	--	7.10	7.00	442	446	15.9	7.7	0.090
	08-28-96	--	7.10	7.21	435	460	15.9	8.1	0.020

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Fa 63	03-13-97	--	7.20	7.16	452	467	15.2	8.1	--
(continued)	08-26-97	--	7.32	7.14	437	462	15.8	8.0	--
	03-18-98	--	7.37	7.26	454	463	15.2	8.3	--
	09-15-98	--	8.29	7.24	426	459	15.6	5.4	--
	03-17-99	--	7.57	7.08	455	448	15.4	9.2	--
	08-12-99	--	7.27	7.25	445	445	16.4	9.2	--
	03-24-00	--	7.24	7.30	447	458	15.7	8.0	--
	08-10-00	--	7.28	7.13	448	406	16.2	7.8	--
	03-07-01	--	7.22	7.26	450	462	15.5	7.6	--
	08-09-01	--	7.32	7.19	435	460	16.5	8.6	--
	03-18-02	--	7.25	7.27	450	453	15.3	7.7	--
	08-28-02	--	E6.72	7.08	423	489	16.1	8.0	--
	03-28-03	--	7.4	7.1	432	452	15.2	6.9	--
	08-29-03	--	7.3	7.0	416	460	16.2	8.8	--
	04-06-04	--	7.6	--	417	466	15.5	10.4	--
	08-27-04	--	7.5	--	444	459	19.1	11	--
	04-13-05	--	7.3	6.7	397	453	15.6	8.2	--
	09-30-05	--	7.2	7.1	447	465	15.8	8.33	--
	09-26-06	--	7.3	7.2	437	454	16.2	8.12	--
	09-12-07	--	6.8	7.0	449	448	16.2	8.45	--
	09-19-08	--	--	7.2	--	458	15.9	8.85	--
	09-24-09	--	--	7.2	--	463	16.1	9.17	--
	10-26-10	--	--	7.4	--	449	15.9	9.32	--
	10-11-12	--	--	7.3	--	453	15.8	9.34	--
	09-10-13	--	--	7.3	--	468	16.3	8.65	--
	09-17-15	--	--	7.2	--	453	16.0	12	--
	09-15-17	--	--	7.20	--	507	16.1	10.8	--
QA Fa 64	07-07-83	--	7.50	7.60	718	725	17.0	130.0	--
	02-18-86	--	--	--	736	--	--	140.0	--
	06-15-88	9.95	--	7.67	797	706	17.0	160.0	--
	05-15-90	--	--	7.84	822	800	17.0	190.0	0.560
	05-20-91	--	--	7.46	873	880	16.0	190.0	0.650
	08-27-91	--	--	7.45	829	830	18.0	190.0	0.580
	03-19-92	--	--	8.12	--	924	16.4	*190.0	--
	08-21-92	--	--	7.74	905	921	18.6	200.0	0.070
	03-09-93	--	--	7.86	883	927	16.2	190.0	0.630
	08-23-93	--	--	7.74	937	941	17.1	180.0	0.530

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Fa 64	08-09-94	--	7.30	7.70	937	958	17.4	200.0	0.740
(continued)	03-16-95	--	7.50	7.50	913	920	16.3	180.0	0.740
	08-16-95	--	7.20	7.65	917	973	17.0	210.0	0.770
	03-29-96	--	7.60	7.82	955	971	14.9	210.0	0.760
	08-20-96	--	7.20	7.70	995	1008	16.1	210.0	0.770
	03-13-97	--	7.50	7.65	933	927	13.6	200.0	--
	08-21-97	--	7.74	7.61	957	1033	17.0	231.8	--
	03-18-98	--	7.72	7.76	1029	1035	14.1	227.7	--
	09-09-98	--	7.63	7.81	1041	1024	16.4	234.3	--
	08-17-99	--	7.65	7.71	1060	1025	17.1	252.3	--
	03-29-00	--	7.63	7.65	1077	1092	14.8	254.7	--
	08-16-00	--	7.56	7.85	1146	1158	16.6	272.1	--
	03-08-01	--	7.62	7.78	1125	1063	13.9	263.0	--
	08-09-01	--	7.63	7.68	1164	1192	17.8	286.7	--
	03-18-02	--	7.62	7.74	1170	1160	14.5	274.1	--
	08-28-02	--	E6.65	7.55	1232	1292	17.4	290.9	--
	03-24-03	--	7.6	7.7	1160	1190	15.6	291	--
	08-26-03	--	7.5	7.6	1190	1250	16.8	294	--
	04-01-04	--	7.6	7.6	1150	1190	14.8	289	--
	09-21-04	--	7.5	7.6	1190	1240	16.4	292	--
	04-19-05	--	7.6	7.6	1180	1210	16.0	296	--
	09-27-05	--	6.6	7.7	1170	1230	17.4	293	--
	09-26-06	--	7.7	7.7	1200	1180	17.1	287	--
	08-29-07	--	8.0	7.7	1290	1260	17.1	304	--
	09-19-08	--	--	7.7	--	1290	15.8	320*	--
	09-24-09	--	--	7.6	--	1320	16.1	314	--
	10-08-10	--	--	7.6	--	1260	15.8	307	--
	07-21-11	--	--	7.7	--	1290	16.1	332	--
	10-01-12	--	--	7.7	--	1270	16.0	313	--
	08-29-13	--	--	7.8	--	1270	16.4	288	--
	09-14-15	--	--	7.7	--	1220	18.9	320	--
	08-02-17	--	--	7.74	--	1294	16.1	368	--
QA Fa 66	05-22-91	--	--	7.49	--	510	18.0	*27.0	--
	08-28-91	--	--	7.55	--	500	18.0	*31.0	--
	03-19-92	--	--	8.01	515	518	15.3	23.0	0.080
	08-12-92	--	--	7.72	513	517	17.2	24.0	0.070
	03-11-93	--	--	7.87	511	520	14.9	21.0	0.070

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Fa 66	08-20-93	--	--	7.80	513	524	16.7	19.0	0.080
(continued)	03-18-94	--	7.60	7.76	517	511	14.7	20.0	0.080
	08-10-94	--	7.80	7.74	516	512	16.9	21.0	0.080
	03-17-95	--	7.80	7.59	514	505	15.5	20.0	0.090
	08-23-95	--	7.70	7.50	492	498	16.9	19.0	0.080
	03-27-96	--	7.60	7.75	508	514	15.4	20.0	0.090
	09-05-96	--	7.30	--	543	489	17.8	20.0	0.070
	03-13-97	--	7.70	7.67	412	521	15.0	20.0	--
	08-19-97	--	7.91	7.61	496	518	16.7	19.6	--
	08-11-99	--	7.90	7.75	514	500	17.0	19.8	--
	03-23-00	--	8.10	7.72	516	519	15.7	21.1	--
	08-16-00	--	7.75	8.10	511	505	17.1	21.0	--
	03-22-01	--	7.93	7.76	513	509	15.6	19.3	--
	08-01-01	--	7.94	7.87	512	510	17.5	20.2	--
	03-18-01	--	7.79	7.76	516	503	15.8	18.8	--
	08-28-02		7.4	7.6	488	541	17.0	19.8	--
	03-27-03	--	7.6	7.7	491	505	13.7	18.2	--
	09-08-03	--	7.8	7.7	484	515	17.3	20.7	--
	04-07-04	--	8.0	7.7	478	517	15.2	20.8	--
	08-27-04	--	7.7	--	502	515	17.5	20.3	--
	04-12-05	--	7.8	7.3	450	508	15.5	20.5	--
	09-28-05	--	6.7	7.7	501	517	17.2	20.3	--
	08-24-06	--	7.9	7.6	507	498	16.7	19.8	--
	09-10-07	--	7.9	7.6	515	493	16.8	19.8	--
	09-17-08	--	--	7.7	--	513	16.9	19.9	--
	09-23-09	--	--	7.7	--	511	17.1	19.6	--
	10-15-10	--	--	--	--	497	16.5	20.1	--
	07-25-11	--	--	7.6	--	497	17.4	19.9	--
	10-05-12	--	--	7.8	--	505	17.5	19.6	--
	09-03-13	--	--	7.8	--	519	17.7	19.6	--
	09-21-15	--	--	7.6	--	512	16.8	23	--
	08-03-17	--	--	7.78	--	509	17.8	23.6	--
QA Fa 67	07-07-83	--	7.40	>7.7	356	345	16.5	15.0	--
	05-21-91	--	--	7.30	--	350	17.0	*13.0	--
	08-28-91	--	--	7.47	--	110	18.0	*26.0	--
	04-02-92	--	--	7.89	349	350	15.4	14.0	0.050
	08-12-92	--	--	7.58	348	353	16.1	14.0	0.030

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Fa 67	03-09-93	--	--	7.84	348	353	15.3	11.0	0.050
(continued)	08-20-93	--	--	7.75	347	358	16.1	11.0	0.040
	03-18-94	--	7.70	7.80	351	345	15.2	12.0	0.060
	08-09-94	--	7.60	7.83	350	347	16.7	11.0	0.060
	03-16-95	--	7.80	7.58	349	343	15.6	11.0	0.050
	08-23-95	--	7.90	7.60	343	338	16.0	11.0	0.050
	03-28-96	--	7.70	7.79	347	349	15.2	12.0	0.050
	09-05-96	--	7.80	--	351	336	16.2	11.0	0.040
	03-13-97	--	7.70	7.62	351	352	15.4	11.0	--
	08-19-97	--	7.91	7.65	340	352	16.0	11.0	--
	03-12-98	--	7.86	7.79	352	349	15.3	11.1	--
	09-10-98	--	7.78	7.70	351	343	16.0	10.9	--
	03-24-99	--	7.91	7.77	354	342	15.5	12.0	--
	08-11-99	--	7.91	7.88	351	342	16.2	11.1	--
	03-23-00	--	8.01	7.74	352	353	15.5	10.8	--
	08-09-00	--	7.88	7.56	349	326	16.2	10.8	--
	03-16-01	--	7.78	7.72	344	348	15.5	10.6	--
	08-07-01	--	7.82	7.78	339	346	16.4	11.6	--
	03-14-02	--	7.87	7.80	349	343	15.9	10.2	--
	08-28-03	--	7.6	7.5	325	346	16.9	10*	--
	04-01-04	--	7.8	7.7	326	336	14.5	11.5	--
	09-21-04	--	E7.2	7.6	322	349	16.2	10.8	--
	04-13-05	--	7.8	7.3	308	344	15.8	10.9	--
	09-30-05	--	7.5	7.7	351	351	16.3	11.1	--
	09-26-06	--	7.8	7.7	339	348	17.1	10.7	--
	09-10-07	--	7.8	7.8	348	334	16.7	11.1	--
	09-18-08	--	--	7.9	--	333	16.4	11.6	--
	09-23-09	--	--	7.7	--	356	16.8	11.5	--
	10-08-10	--	--	7.7	--	347	16.3	11.8	--
	07-26-11	--	--	7.6	--	338	16.4	11.9	--
	10-03-12	--	--	7.8	--	342	16.7	12.0	--
	09-03-13	--	--	7.8	--	352	16.4	11.5	--
	09-17-15	--	--	7.7	--	341	16.6	13	--
	07-31-17	--	--	7.78	--	355	16.7	12.8	--

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Fa 72	09-20-90	--	--	6.88	473	440	16.5	15.0	0.060
	08-29-91	--	--	7.65	478	470	17.0	16.0	0.050
	03-19-92	--	--	8.22	482	484	15.1	16.0	0.060
	08-21-92	--	--	7.97	479	484	16.1	19.0	0.050
	03-11-93	--	--	8.02	476	490	15.0	14.0	0.050
	08-20-93	--	--	7.92	482	495	16.2	14.0	0.060
	03-16-94	--	7.20	--	--	489	14.6	*18.5	--
	08-09-94	--	7.80	7.94	484	486	16.1	14.0	0.070
	03-16-95	--	7.80	7.62	485	483	15.5	13.0	0.060
	08-16-95	--	8.10	7.88	471	484	16.5	14.0	0.070
	03-05-96	--	7.90	8.00	311	492	15.0	*15.0	0.040
	08-20-96	--	7.80	7.78	479	486	16.1	14.0	0.050
	03-20-97	--	7.80	8.00	491	493	14.7	14.0	--
	08-21-97	--	7.99	7.76	471	490	16.1	14.3	--
	03-25-98	--	7.95	7.91	491	491	14.0	14.2	--
	09-15-98	--	7.81	7.77	490	483	16.1	13.3	--
	03-17-99	--	7.98	7.86	495	477	15.2	14.3	--
	08-12-99	--	7.93	7.91	481	475	16.4	14.6	--
	03-29-00	--	8.00	7.87	488	496	15.6	14.1	--
	08-17-00	--	7.99	7.99	488	491	16.0	14.4	--
	03-15-01	--	7.88	8.00	493	492	15.1	13.6	--
	08-01-01	--	7.94	7.98	489	489	16.7	13.7	--
	03-14-02	--	8.12	7.95	492	481	15.5	13.6	--
	03-28-03	--	7.8	7.9	472	479	15.2	12.7	--
	09-08-03	--	7.8	7.9	463	490	16.5	14.6	--
	09-21-04	--	7.9	7.9	471	493	16.1	14.4	--
	04-12-05	--	7.9	--	423	486	15.4	14.5	--
	09-30-05	--	7.5	7.8	488	495	16.2	14.8	--
	08-24-06	--	8.0	7.7	485	474	16.2	14.3	--
	09-10-07	--	7.8	7.9	491	477	16.7	14.7	--
	09-18-08	--	--	8.0	--	476	16.5	14.8	--
	09-22-09	--	--	7.8	--	490	16.5	14.8	--
	10-13-10	--	--	--	--	480	16.2	15.0	--
07-25-11	--	--	7.8	--	477	17.7	14.9	--	
10-09-12	--	--	8.0	--	480	16.1	14.7	--	
09-03-13	--	--	8.0	--	490	16.4	13.8	--	
09-21-15	--	--	7.7	--	471	16.3	11	--	
07-31-17	--	--	8.00	--	475	16.4	16.9	--	



Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Fa 74	05-30-91	--	--	7.49	464	460	17.0	16.0	0.040
	09-04-91	--	--	7.43	--	450	17.0	*18.0	--
	03-20-92	--	--	7.84	460	462	15.2	14.0	0.050
	08-12-92	--	--	7.77	456	463	16.6	17.0	0.030
	03-11-93	--	--	7.72	457	464	14.7	12.0	0.040
	08-23-93	--	--	7.59	459	459	16.2	12.0	0.040
	03-18-94	--	7.50	7.72	461	460	13.9	12.0	0.050
	08-10-94	--	7.50	7.67	459	461	16.6	12.0	0.060
	03-17-95	--	7.50	7.66	459	463	15.6	12.0	0.050
	08-29-95	--	7.60	7.63	451	464	16.5	12.0	0.050
	03-05-96	--	7.60	7.75	443	464	15.0	12.0	0.040
	08-20-96	--	7.70	7.50	453	460	16.3	12.0	0.040
	03-13-97	--	7.60	7.63	459	464	15.0	11.0	--
	08-19-97	--	7.81	7.53	443	462	16.3	11.6	--
	03-12-98	--	7.84	7.66	461	460	15.1	11.8	--
	09-10-98	--	7.68	7.59	460	451	16.1	11.3	--
	03-23-99	--	7.80	7.61	460	445	15.4	12.4	--
	08-11-99	--	7.84	7.70	459	446	16.5	12.2	--
	03-23-00	--	8.02	7.61	460	463	15.6	13.0	--
	08-09-00	--	7.86	7.41	457	424	16.7	11.5	--
	03-16-01	--	7.64	7.76	447	457	15.2	11.0	--
	08-01-01	--	7.70	7.77	453	450	14.6	10.6	--
	08-29-03	--	7.6	7.4	421	449	16.5	11.9	--
	04-21-05	--	7.8	7.5	419	448	15.4	10.9	--
	09-28-05	--	6.6	7.6	445	459	16.5	10.9	--
	09-26-06	--	7.8	7.6	446	448	16.3	10.8	--
	09-17-08	--	--	7.6	--	393	17.7	11.6	--
09-23-09	--	--	7.6	--	456	16.3	11.7	--	
10-26-10	--	--	7.6	--	442	17.5	11.8	--	
QA Fa 75	04-02-92	--	--	8.07	524	526	14.4	25.0	0.080
	08-20-92	--	--	7.76	539	528	18.2	25.0	0.070
	03-11-93	--	--	8.02	521	529	14.2	22.0	0.080
	08-20-93	--	--	7.85	520	536	18.7	21.0	0.080
	03-16-94	--	7.80	--	524	531	18.0	21.0	0.090

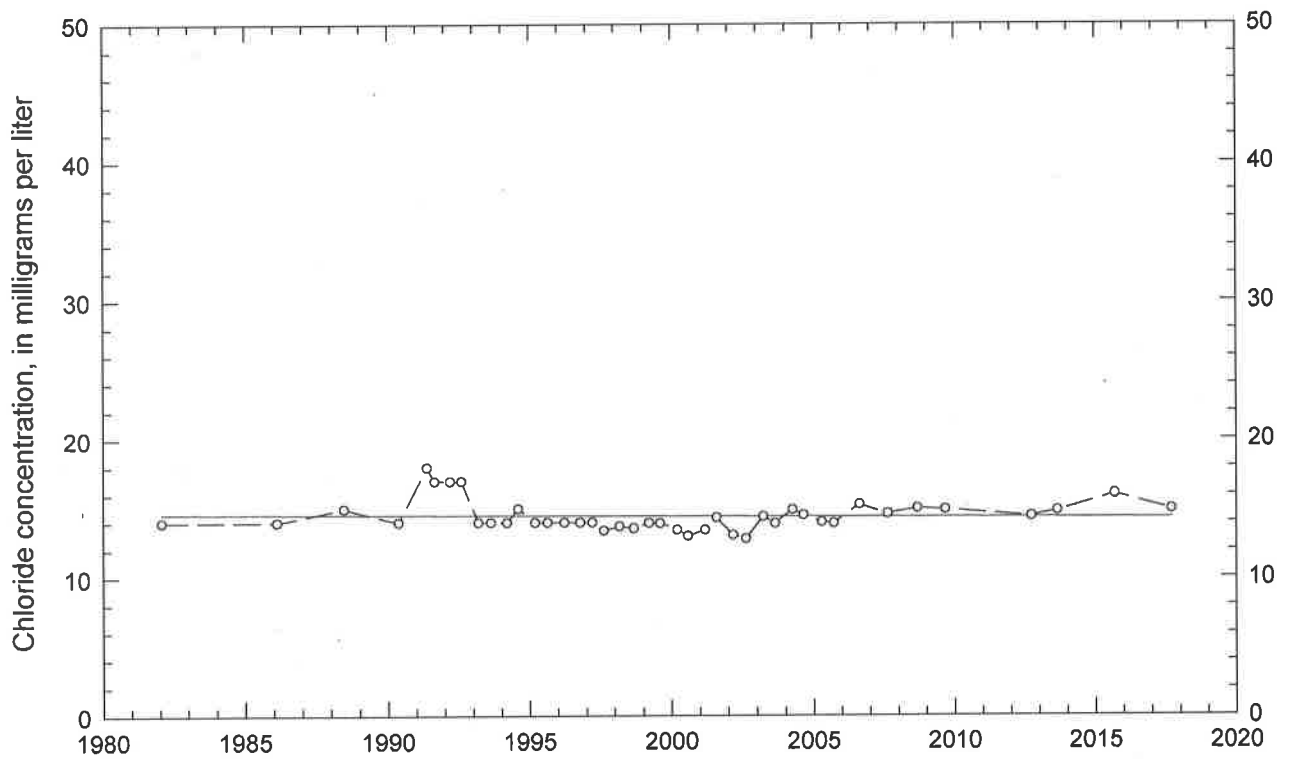
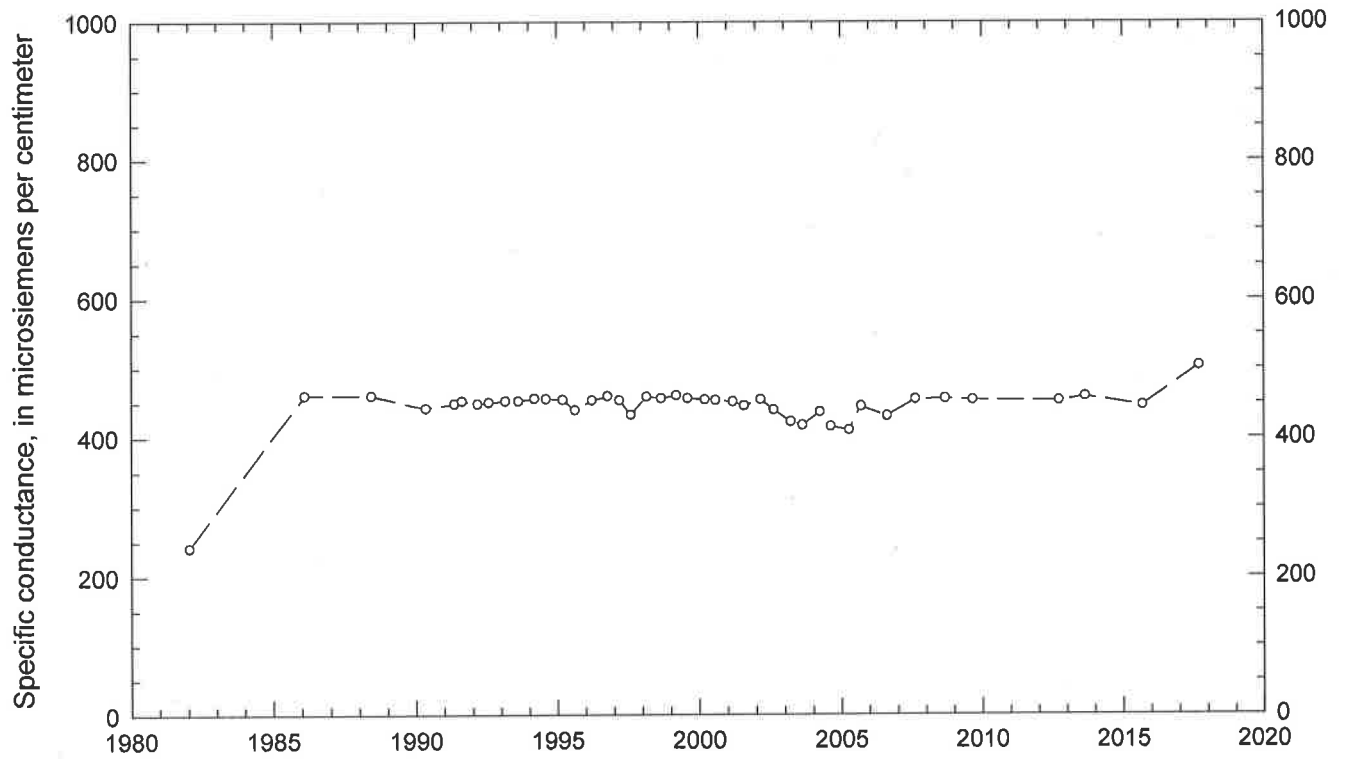
Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Fa 75	08-09-94	--	7.70	7.89	520	524	18.8	21.0	0.090
(continued)	03-16-95	--	7.80	7.58	514	515	14.5	22.0	0.090
	08-16-95	--	7.80	7.90	507	519	18.0	21.0	0.100
	03-05-96	--	7.90	7.97	492	526	13.9	21.0	0.080
	08-20-96	--	7.80	7.76	512	522	18.1	21.0	0.090
	03-20-97	--	7.70	7.97	519	524	13.0	20.0	--
	08-21-97	--	7.99	7.76	502	523	19.5	20.8	--
	03-25-98	--	7.98	7.92	522	520	14.4	20.0	--
	09-10-98	--	7.95	7.83	518	494	20.1	20.2	--
	03-24-99	--	7.97	7.95	520	508	14.4	21.6	--
	08-11-99	--	8.06	7.82	520	507	17.8	21.0	--
	03-29-00	--	7.99	7.85	519	524	14.6	21.3	--
	08-08-00	--	8.14	--	518	491	18.4	19.6	--
	03-13-01	--	7.92	7.94	512	517	14.1	19.9	--
	08-07-01	--	7.95	7.89	507	517	19.5	21.3	--
	03-14-02	--	8.04	7.96	521	510	14.2	19.9	--
	08-29-02	--	7.78	7.86	512	514	18.9	20.7	--
	03-27-03	--	7.9	7.9	496	510	15.2	18.6	--
	04-01-04	--	8.2	8	494	490	--	21.4	--
	09-21-04	--	8.0	7.8	483	521	20.0	21.2	--
	04-13-05	--	8.0	7.6	454	513	14.4	21.0	--
	09-30-05	--	7.9	7.8	519	529	20.5	21.7	--
	09-26-06	--	8.0	7.8	506	518	19.0	20.3	--
	08-29-07	--	8.0	7.7	518	511	19.5	20.5	--
	09-18-08	--	--	8.0	--	504	18.3	20.2	--
	09-22-09	--	--	7.8	--	501	17.3	20.1	--
	10-08-10	--	--	7.8	--	508	18.2	20.7	--
	07-26-11	--	--	7.8	--	503	20.0	20.2	--
	10-05-12	--	--	7.9	--	507	19.0	19.6	--
	09-03-13	--	--	8.0	--	516	18.3	19.6	--
	09-17-15	--	--	7.8	--	495	17.8	23	--
	07-31-17	--	--	7.91	--	560	22.1	22.2	--

Table 3. Chemical analyses of major constituents from wells in the Kent Island Chloride Network—Continued

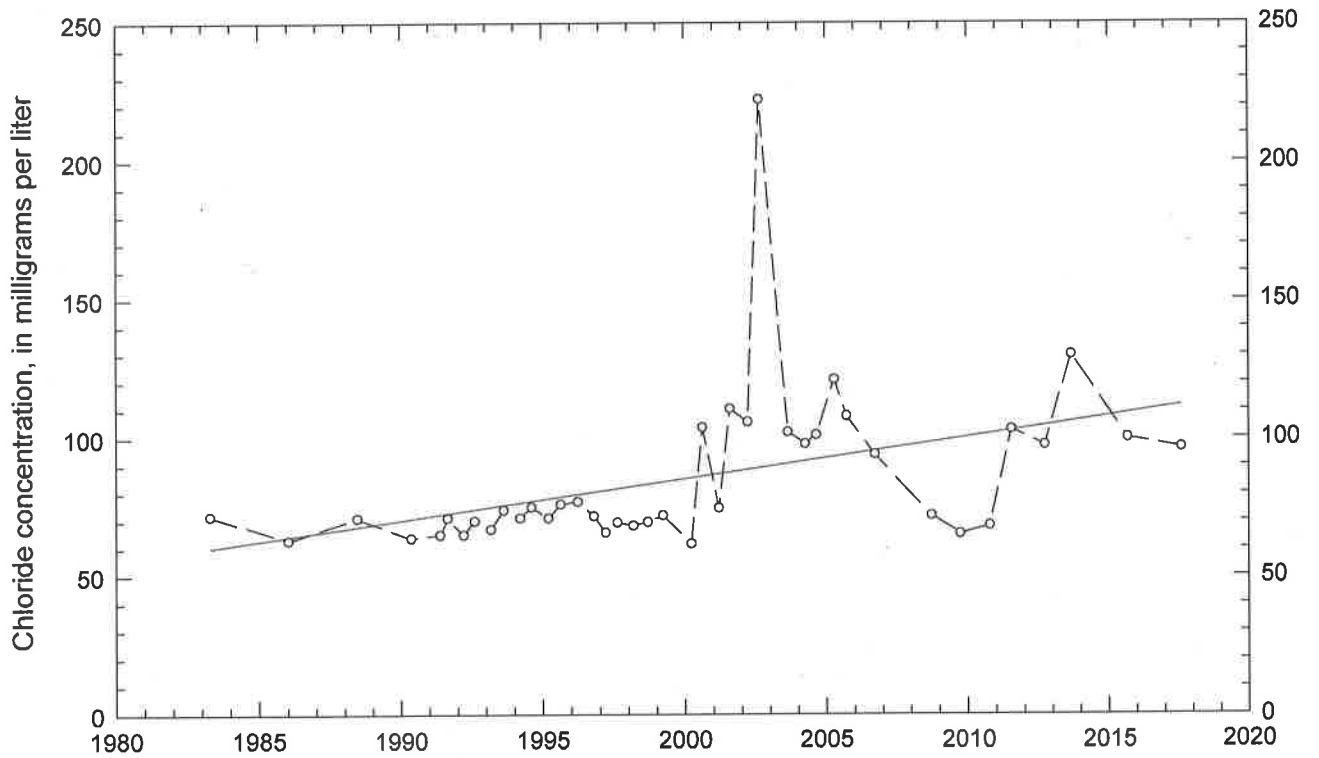
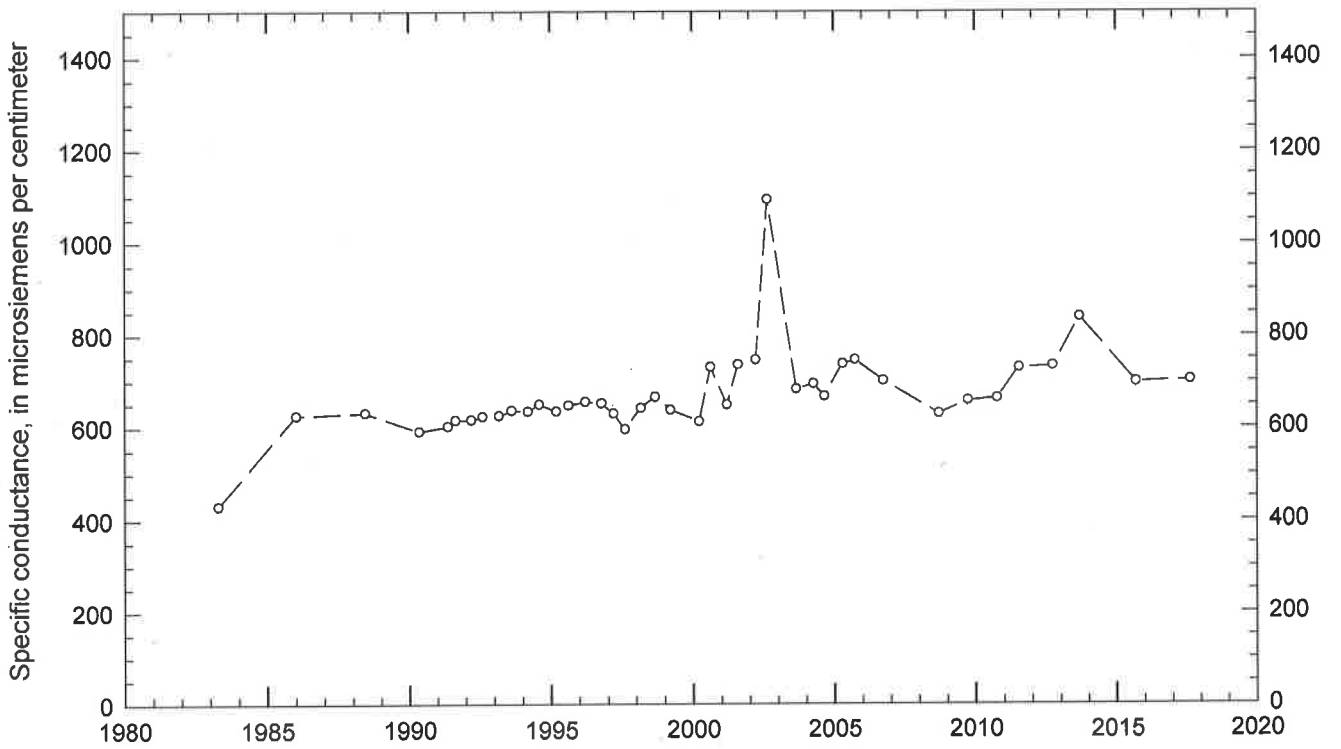
Well number	Date	Water level (feet)	pH (standard units)		Specific conductance (microsiemens per centimeter)		Temperature, water (° C)	Chloride dissolved (milligram per liter)	Bromide dissolved (milligram per liter)
			Lab	Field	Lab	Field			
QA Fa 83	09-17-08	--	--	7.0	--	470	18.7	11.7	--
	09-22-09	--	--	8.0	--	474	18.9	14.1	--
	10-13-10	--	--	8.2	--	462	19.8	13.9	--
	07-25-11	--	--	8.0	--	462	23.0	13.7	--
	10-01-12	--	--	7.9	--	451	17.0	13.6	--
	09-03-13	--	--	8.0	--	464	18.9	13.0	--
	09-21-15	--	--	7.8	--	457	17.9	15	--
	07-31-17	--	--	7.91	--	458	17.5	15.0	--

- \* Field chloride value
- \*\* Sample passed through water softener
- † Casing damaged
- ‡ Well was sealed, sampled county water supply
- E Estimated value



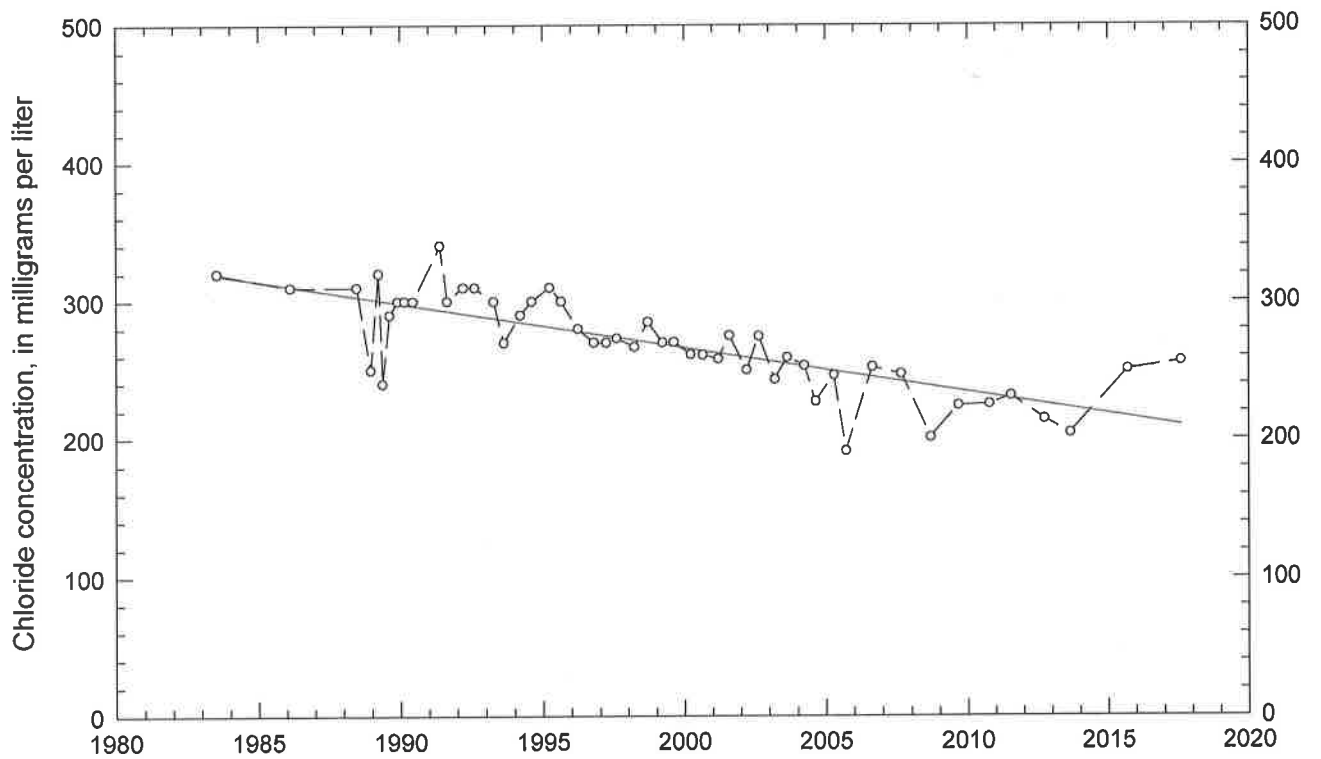
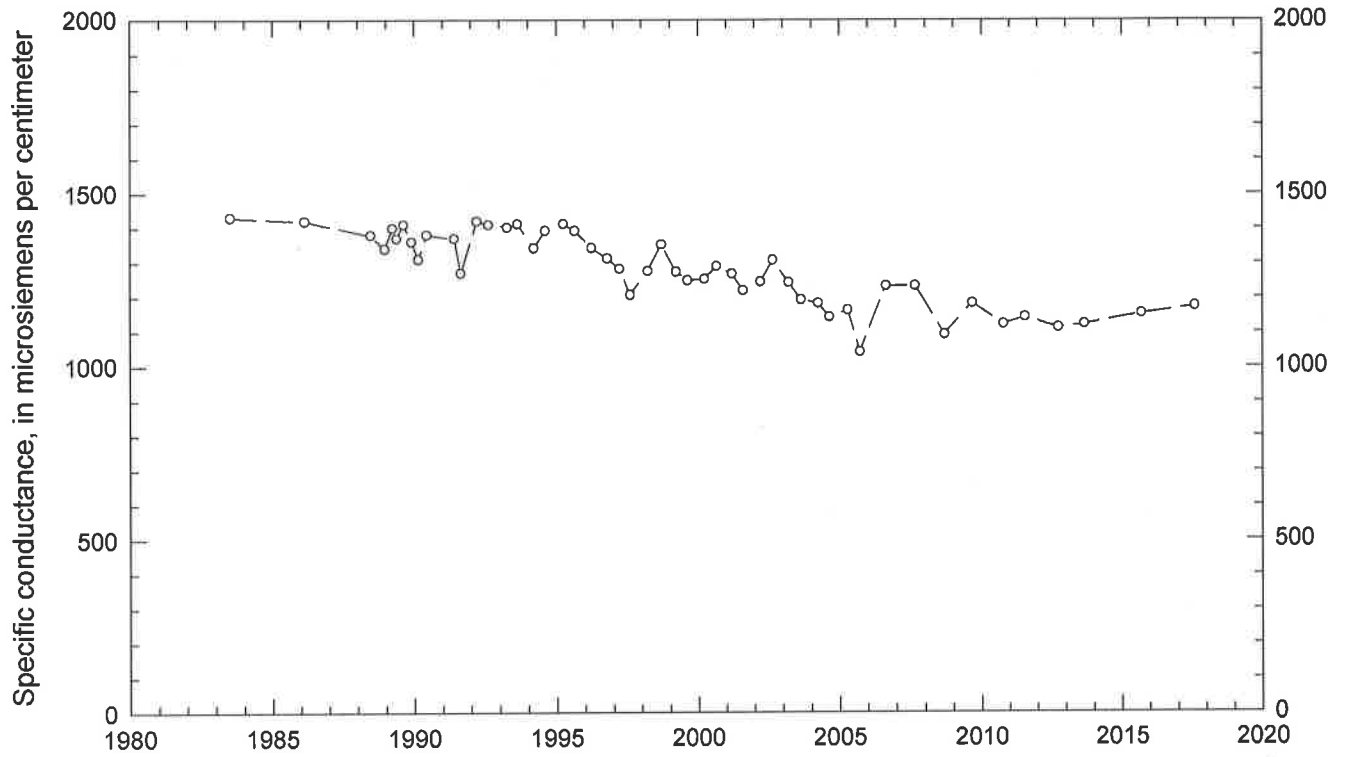
QA Db 14

— Lab chloride regression



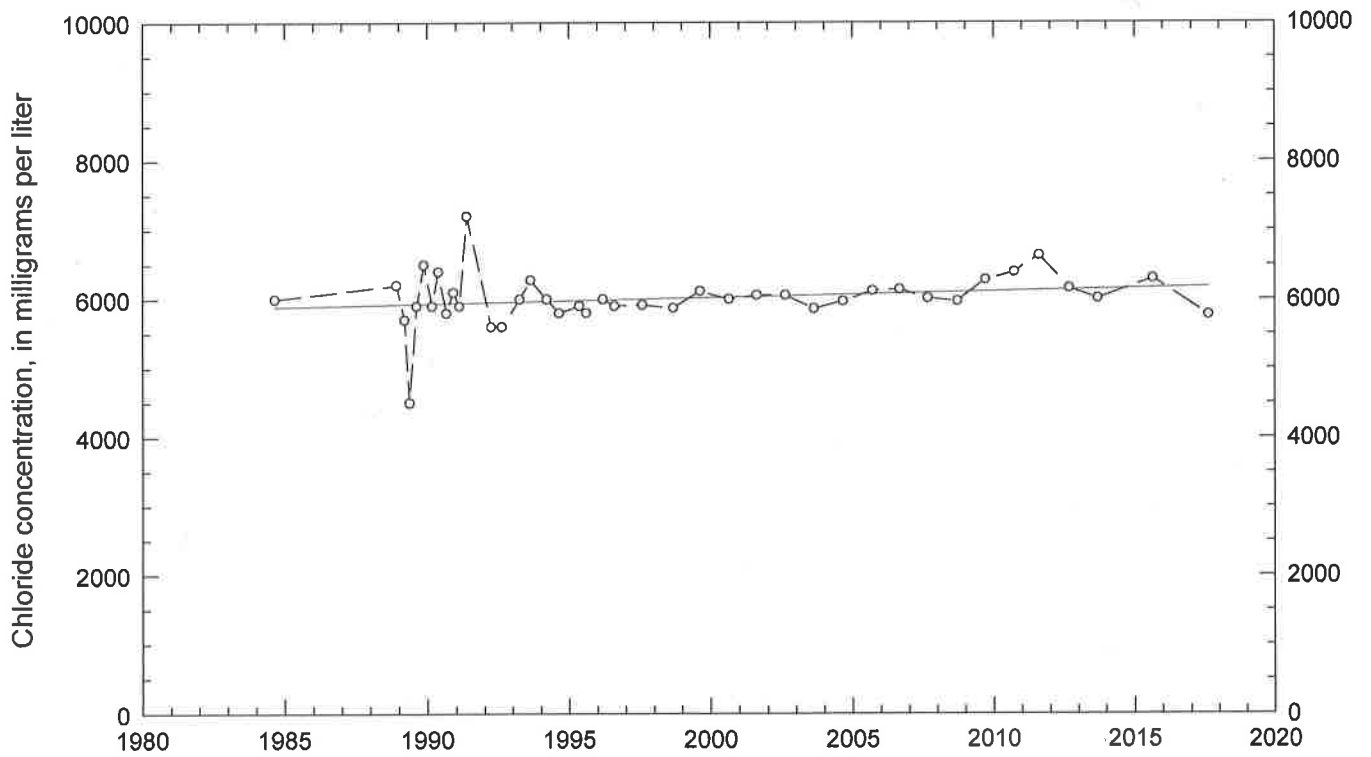
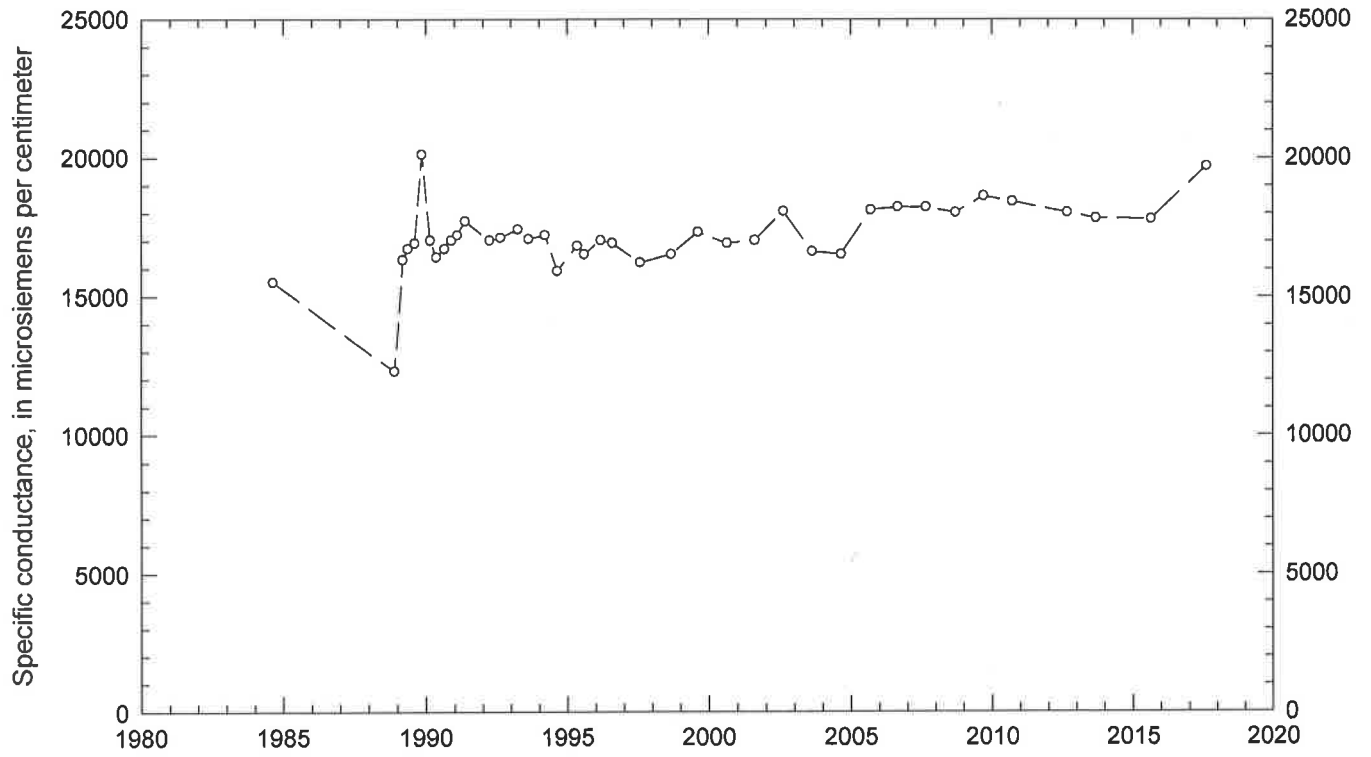
**QA Db 17 (Rost well)**

— Lab chloride regression



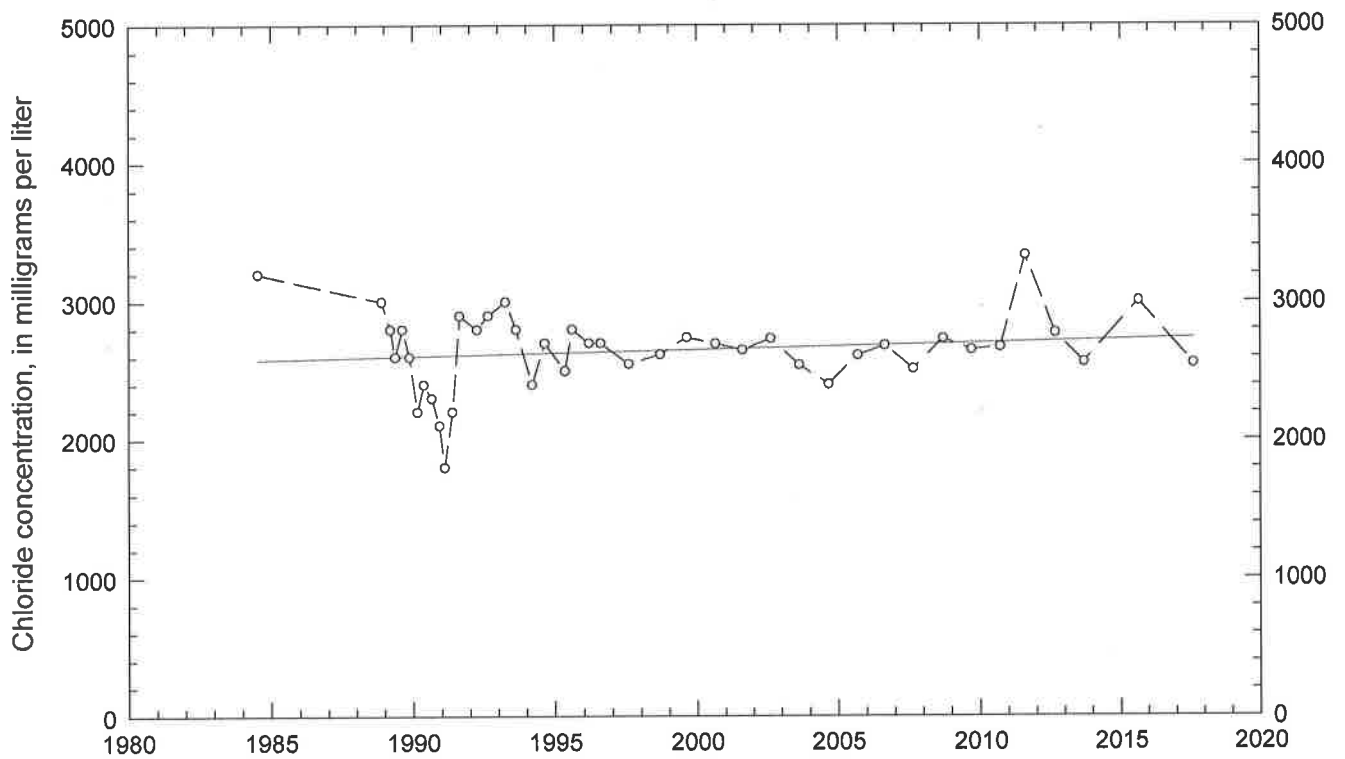
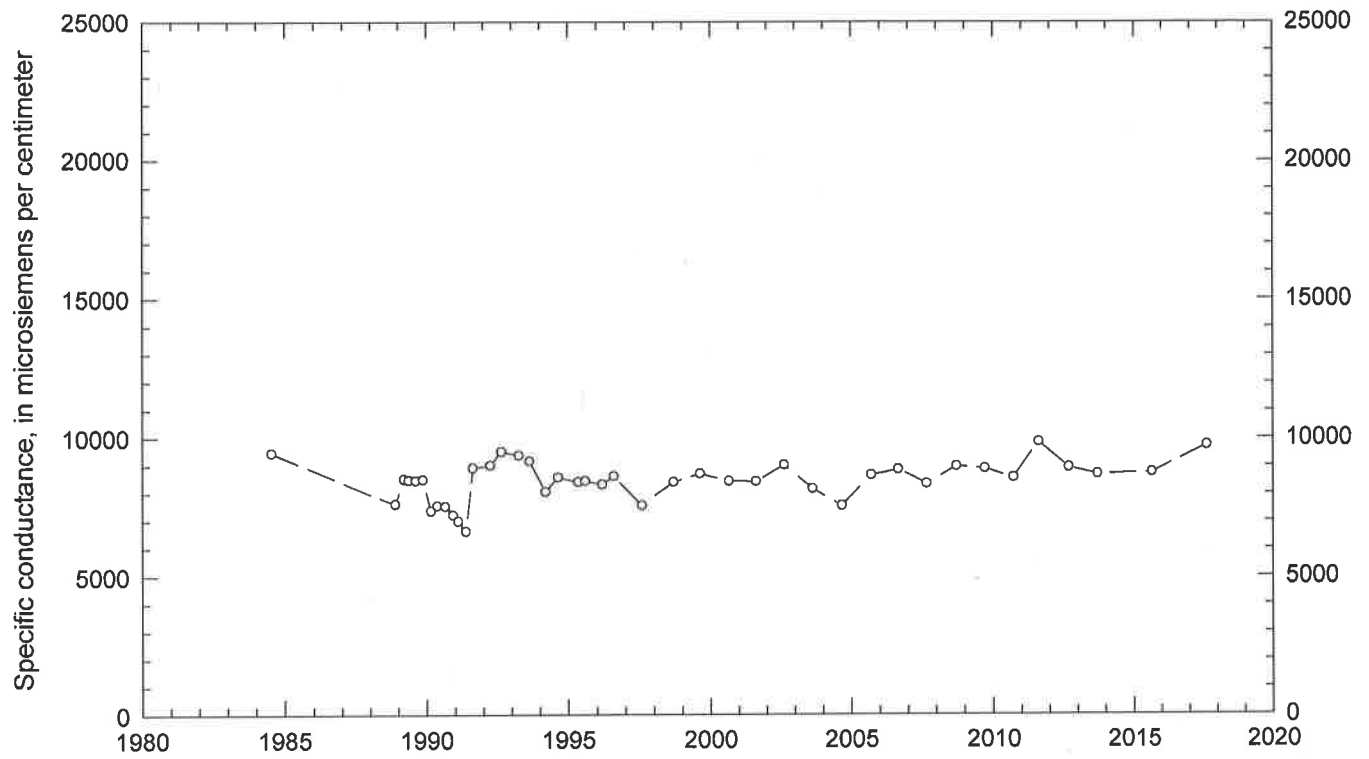
**QA Db 27 (Mylander house well)**

— Lab chloride regression



**QA Db 30 (Love Point-deep)**

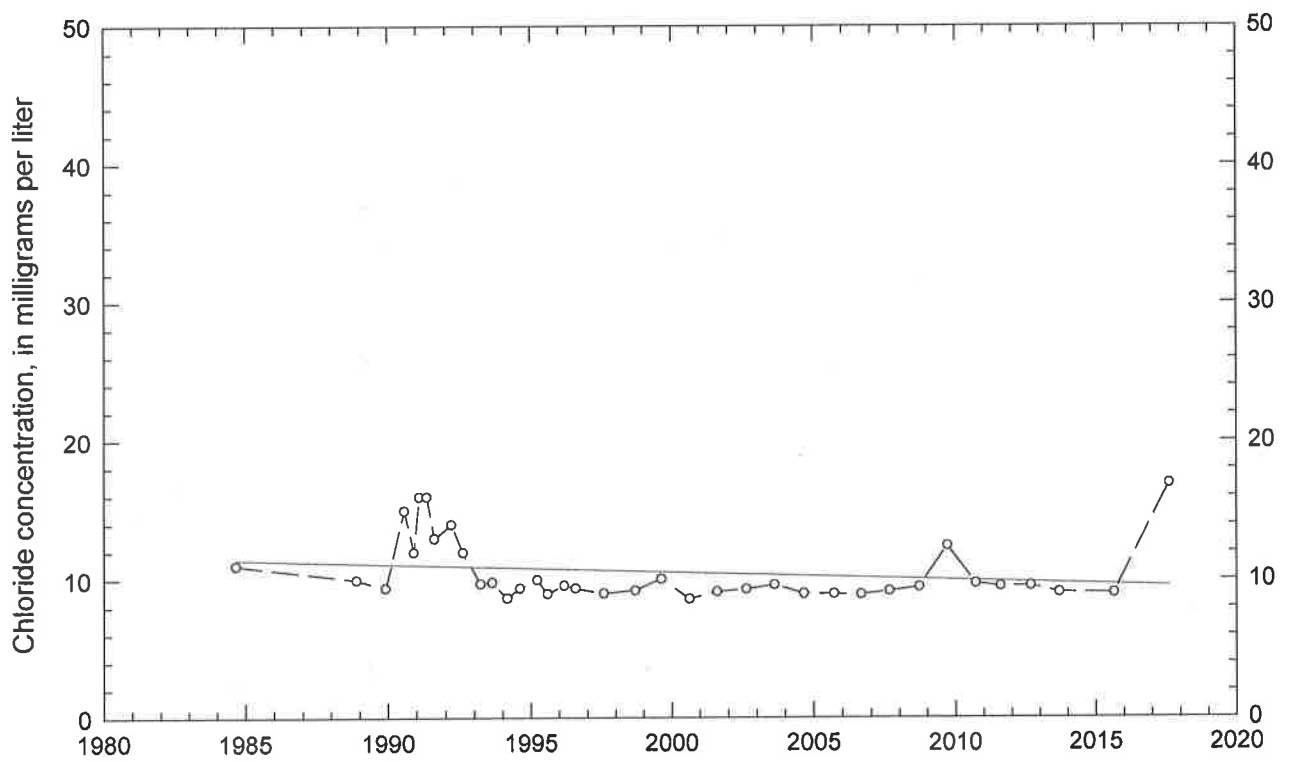
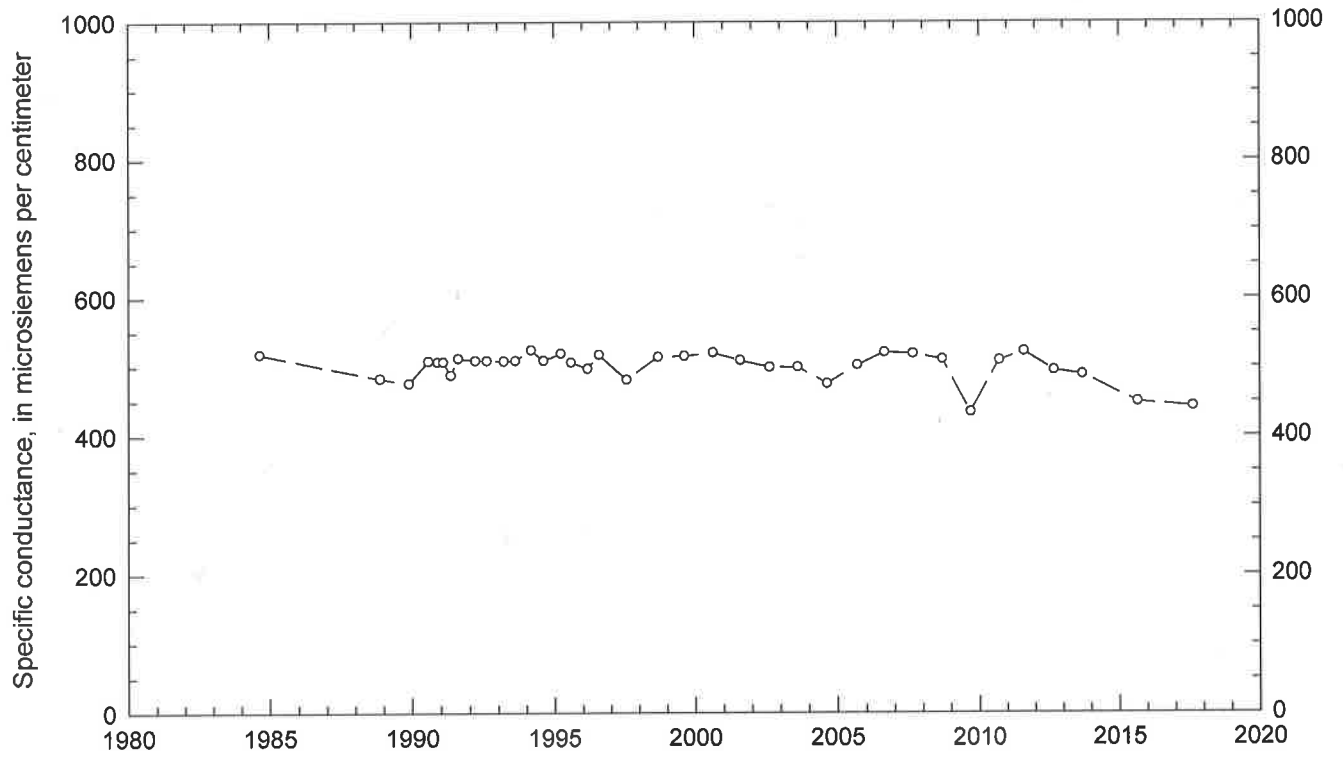
— Lab chloride regression



**QA Db 32 (Love Point-shallow)**

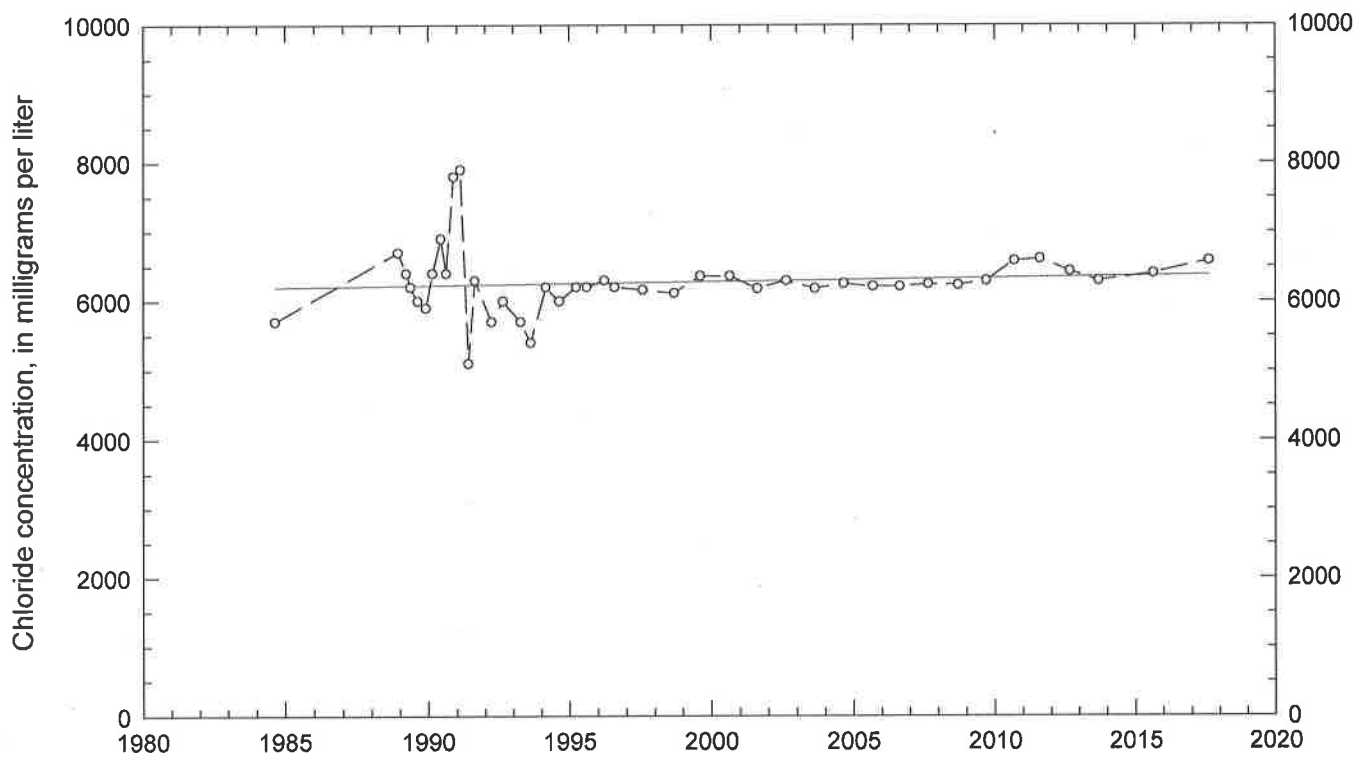
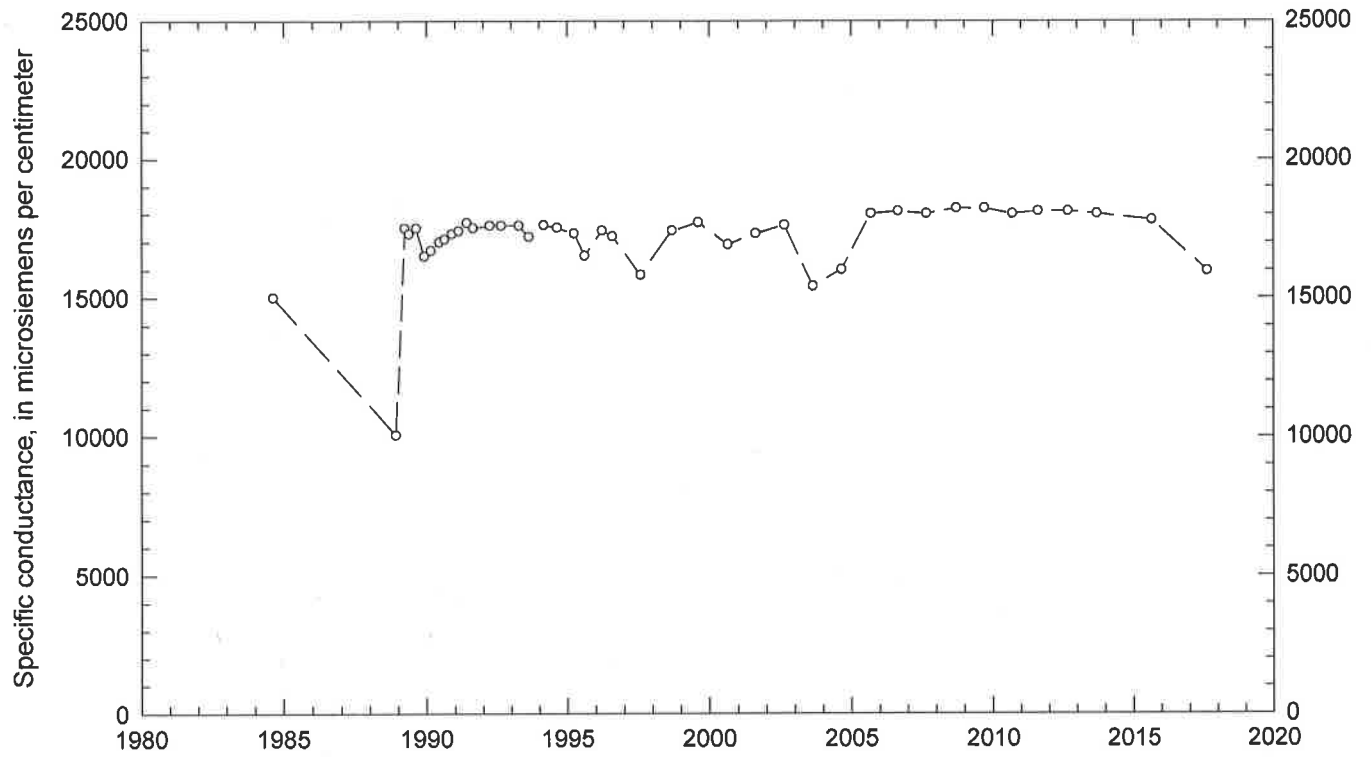
— Lab chloride regression





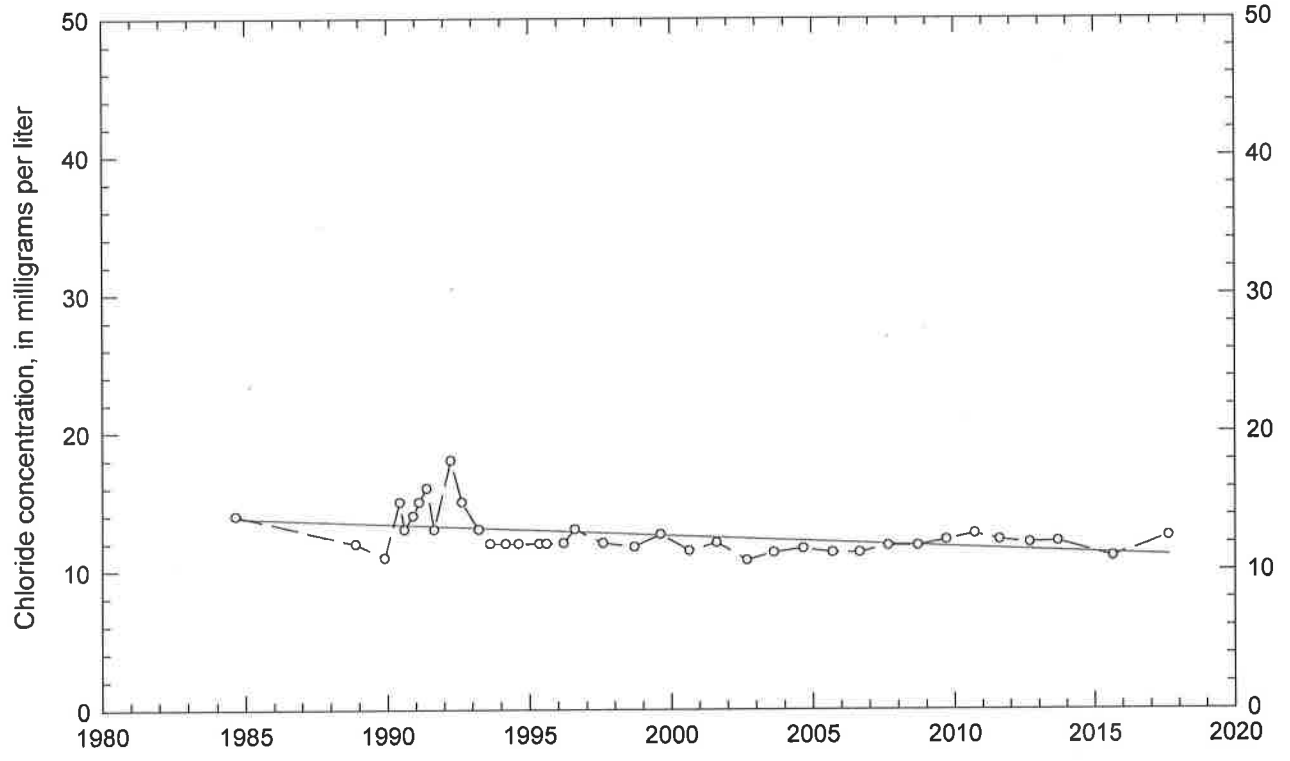
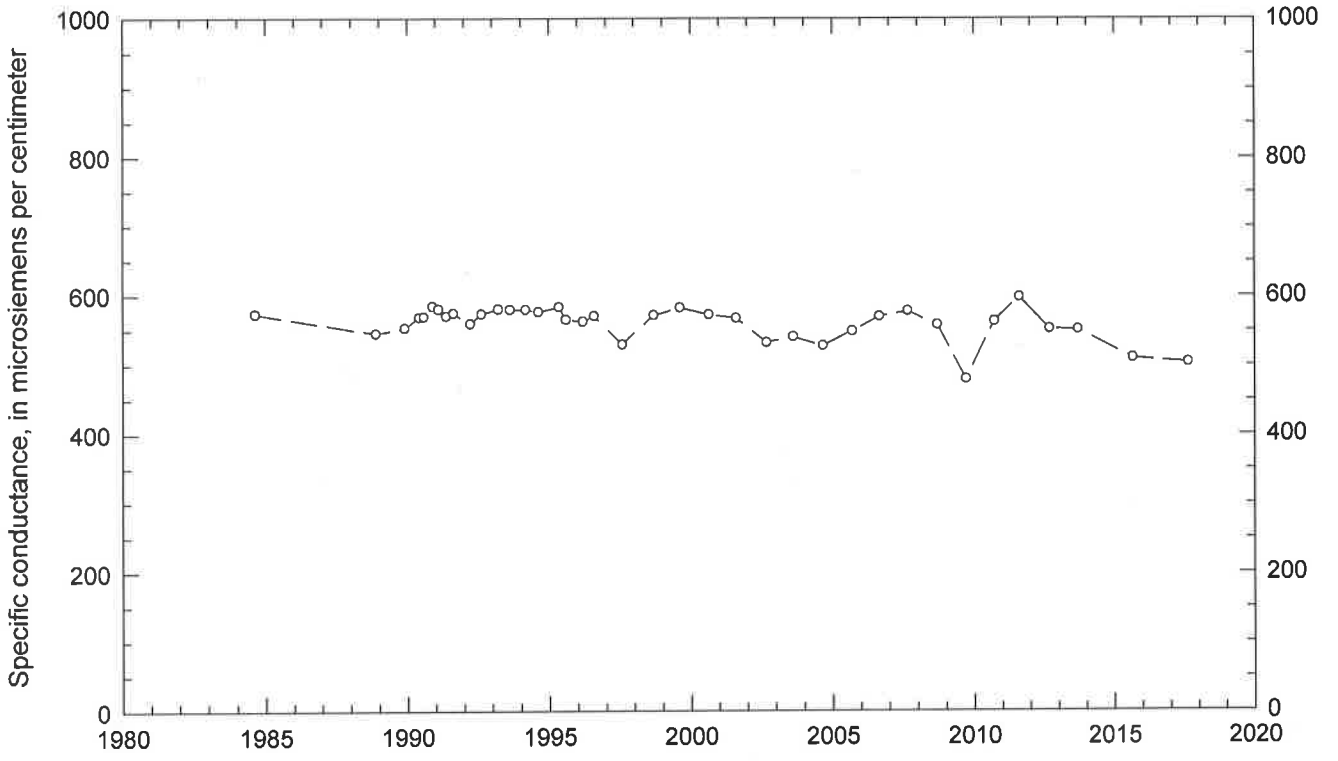
**QA Db 34 (Cloverfields-shallow)**

— Lab chloride regression



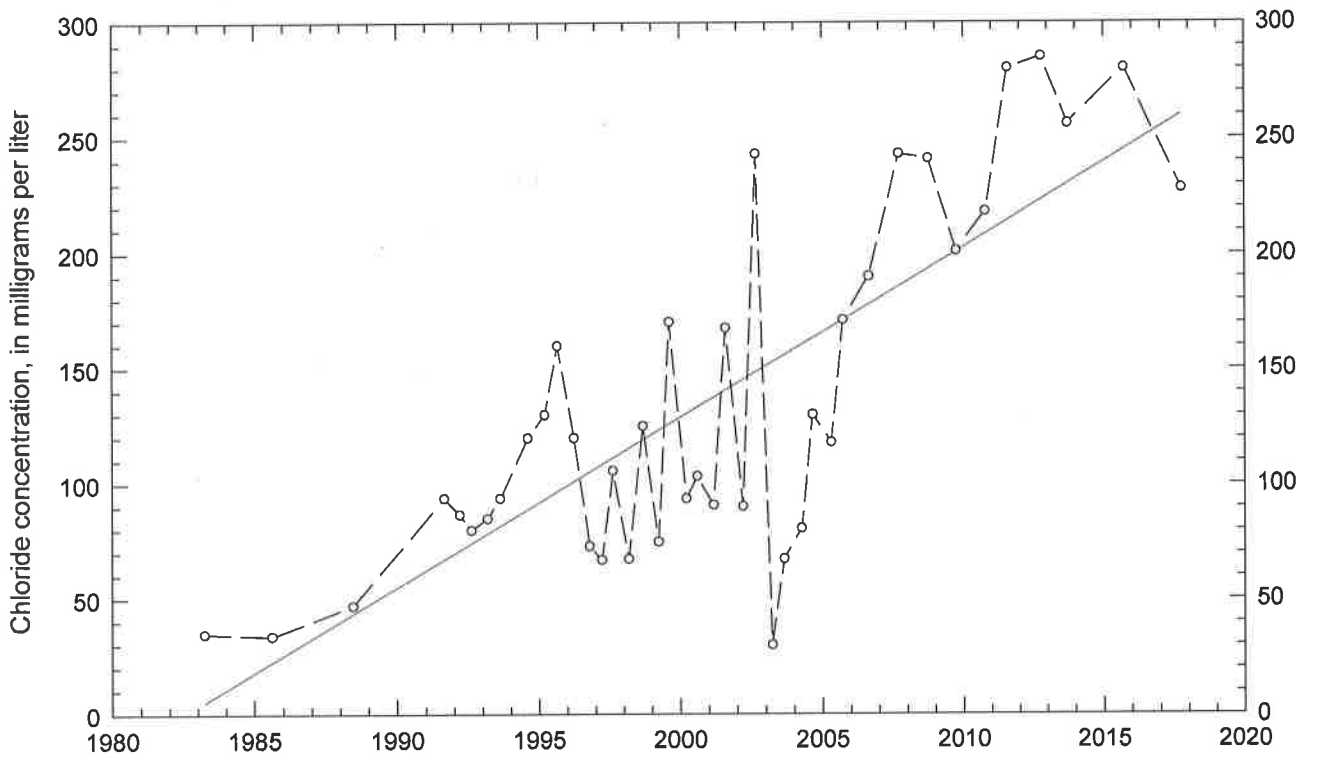
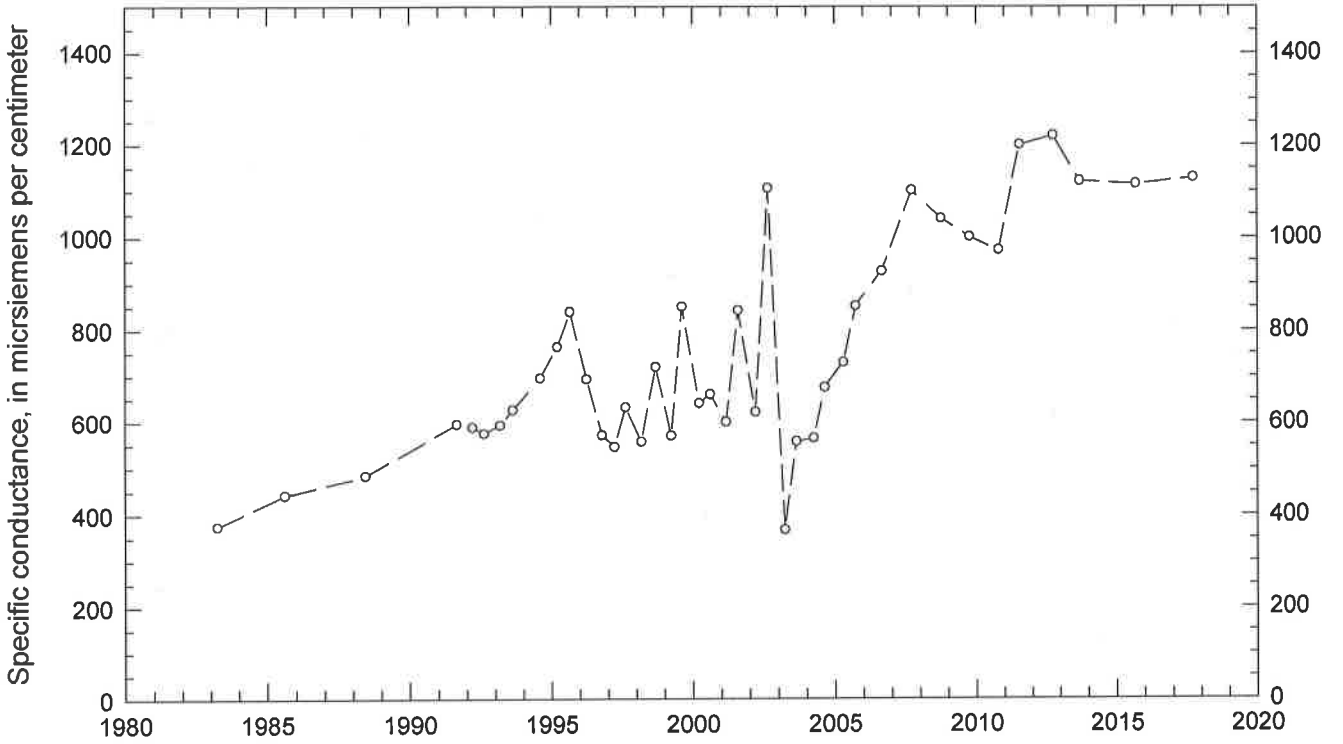
**QA Db 35 (Mylander farm well)**

— Lab chloride regression

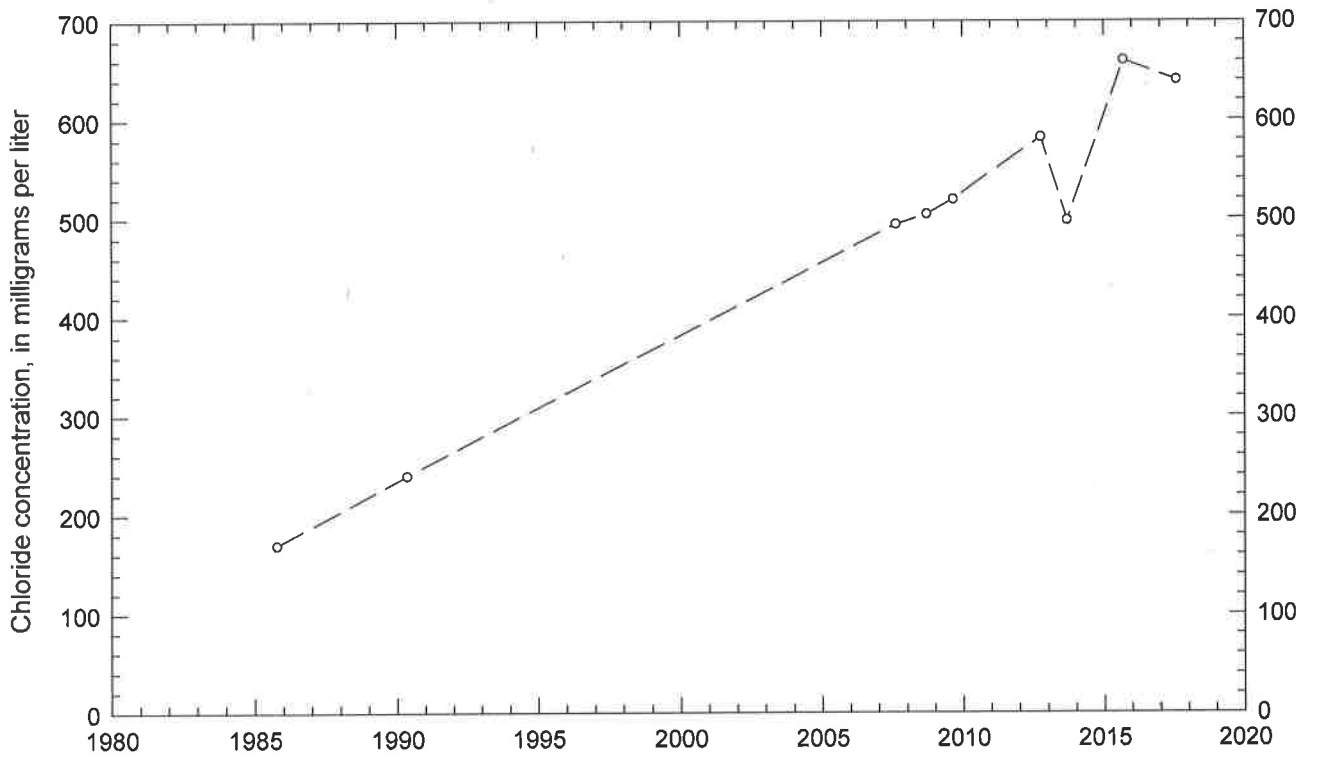
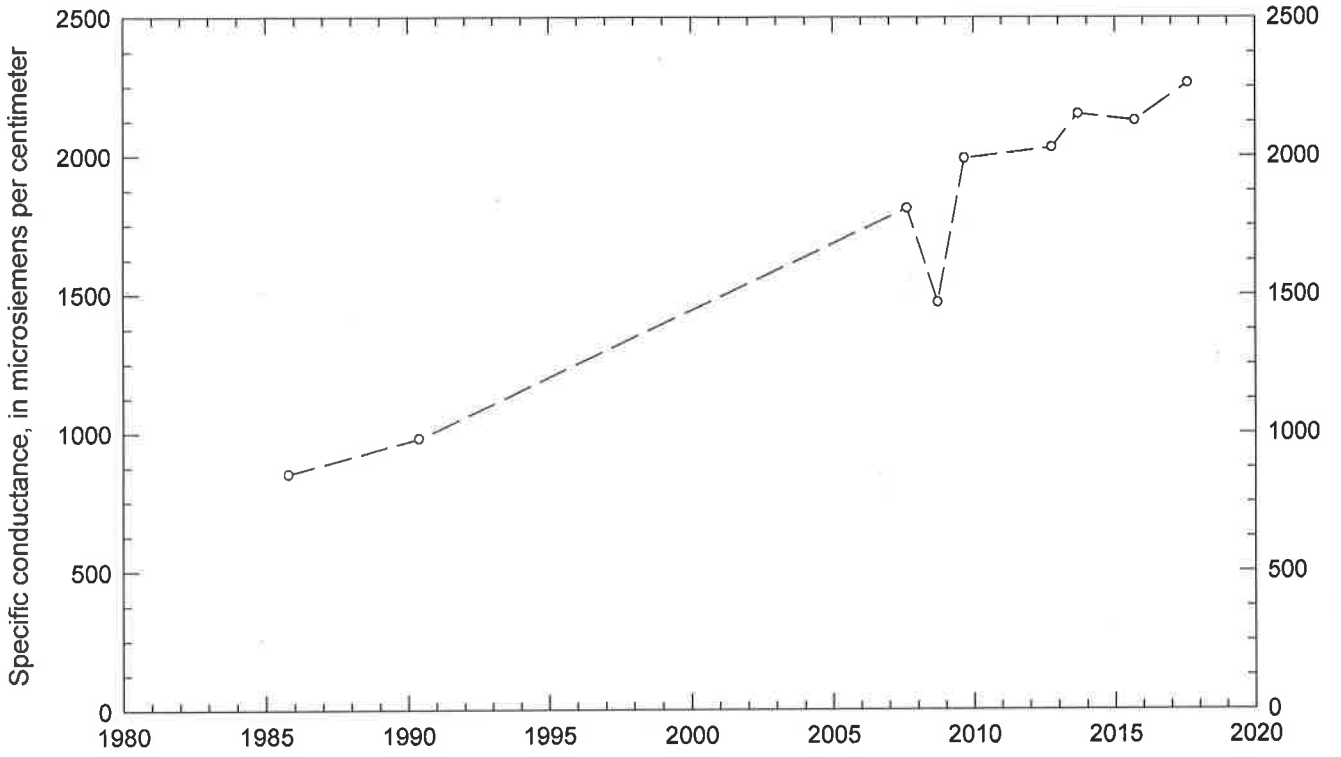


**QA Db 37 (Cloverfields-deep)**

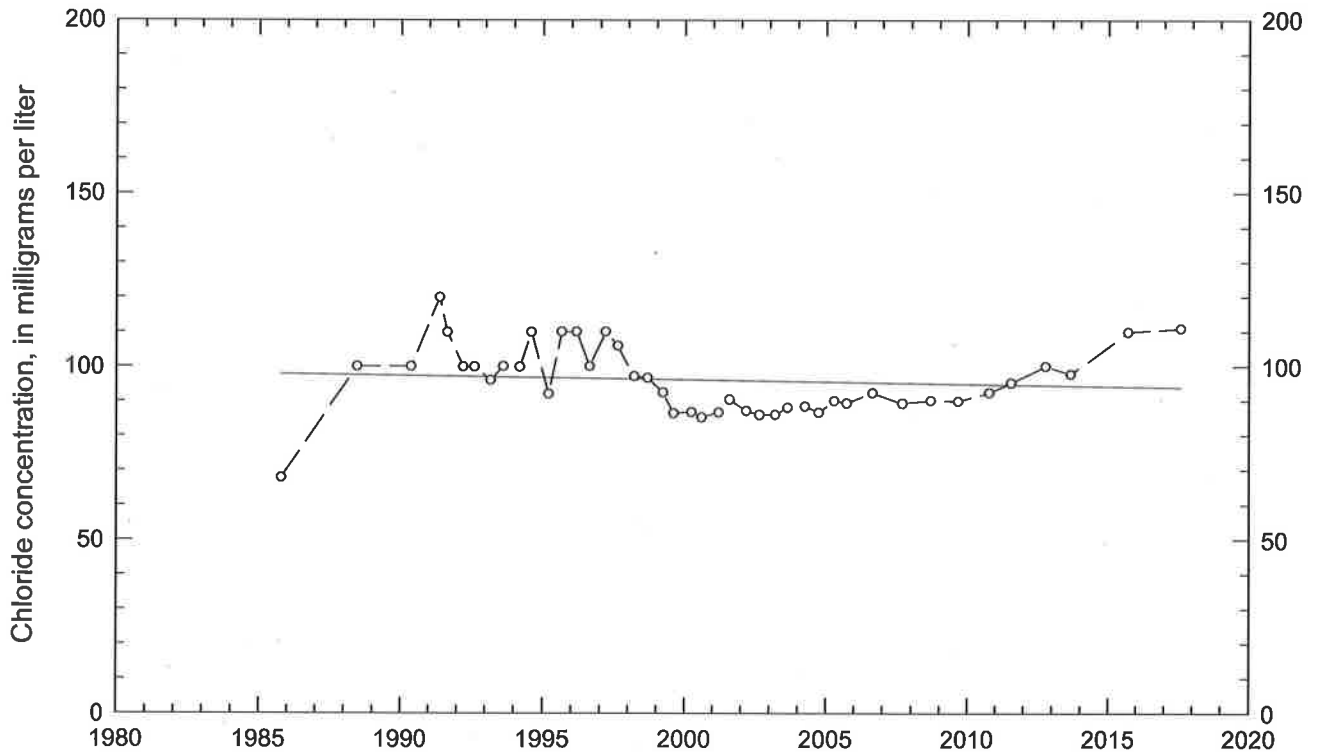
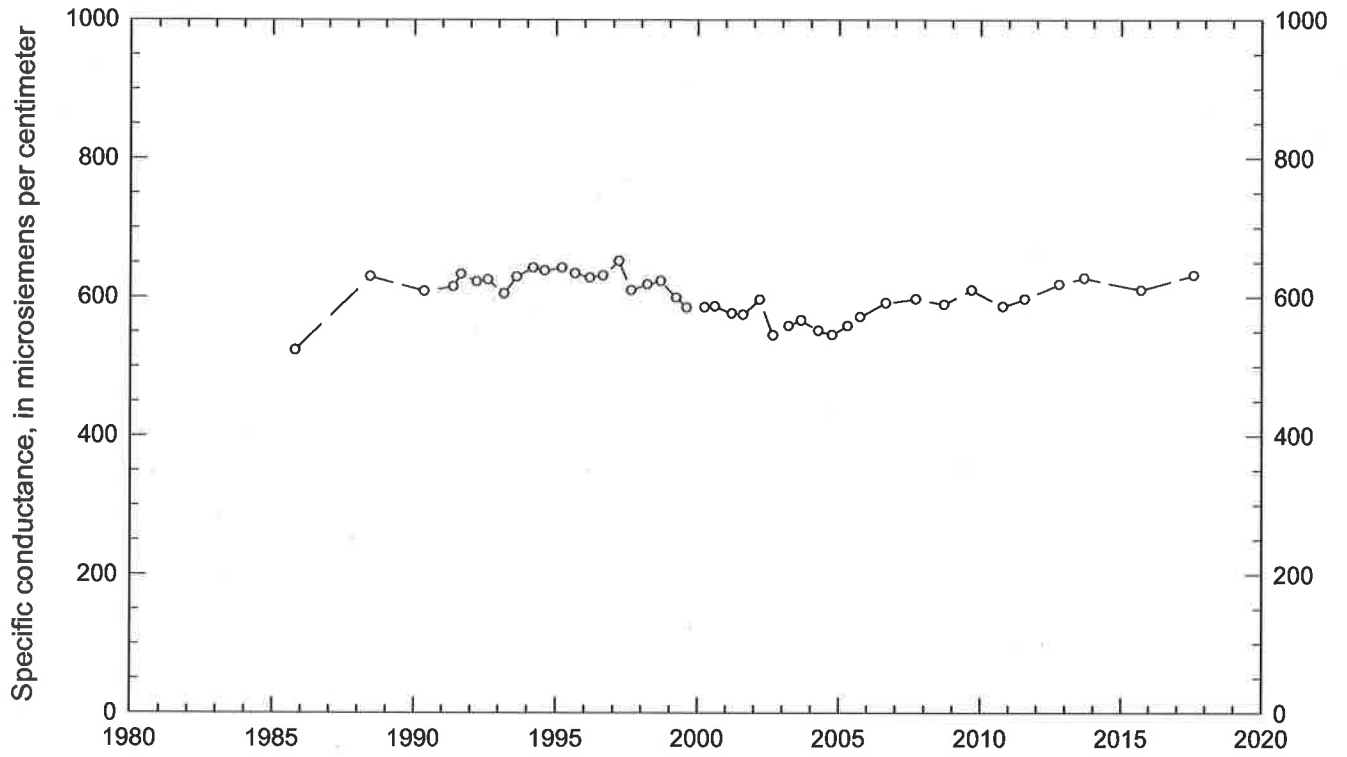
— Lab chloride regression



**QA Ea 42 (Chalfont well)**

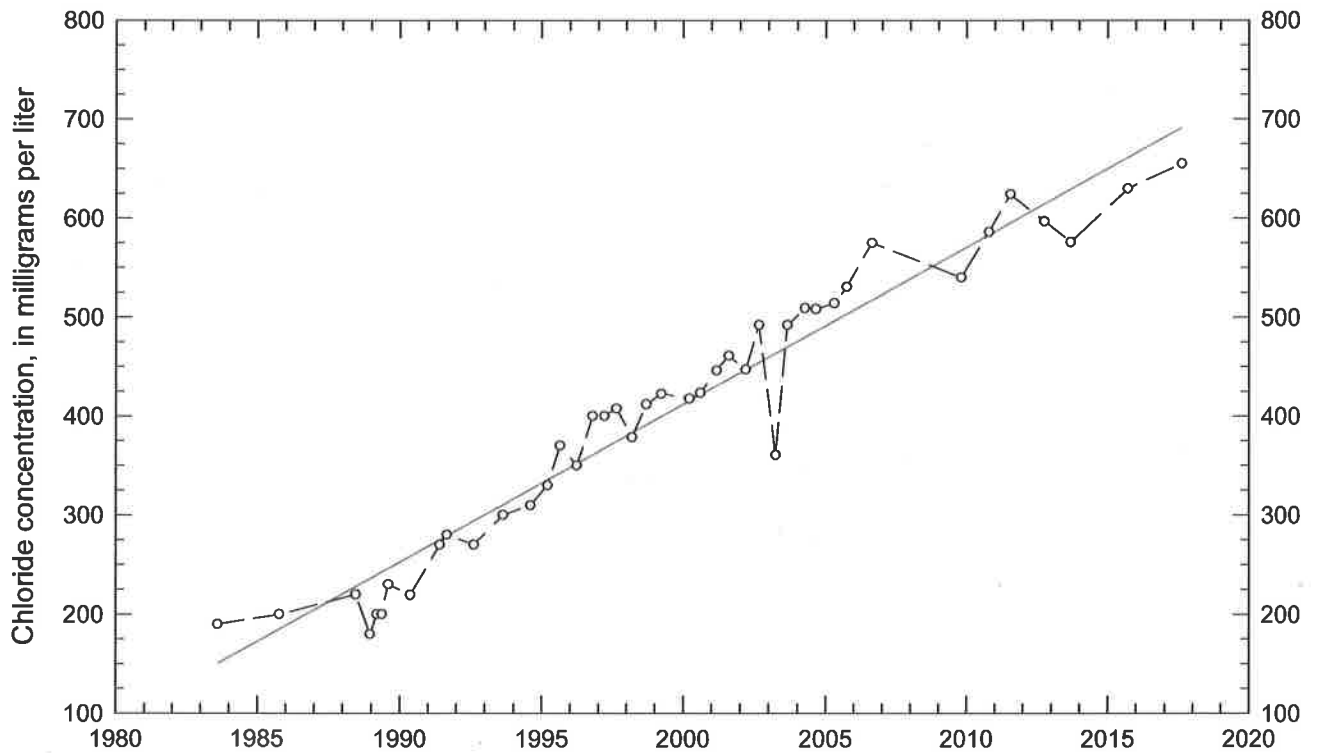
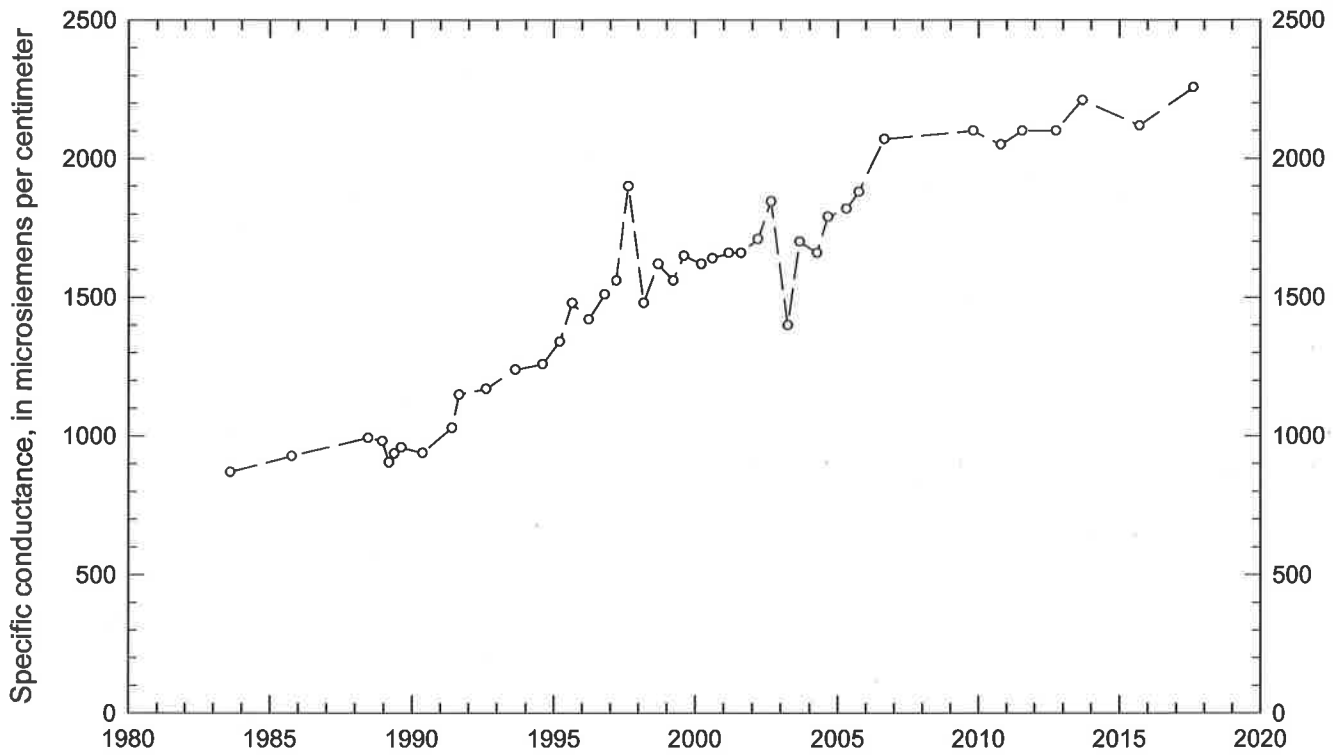


**QA Ea 57**



**QA Ea 59 (Obert well)**

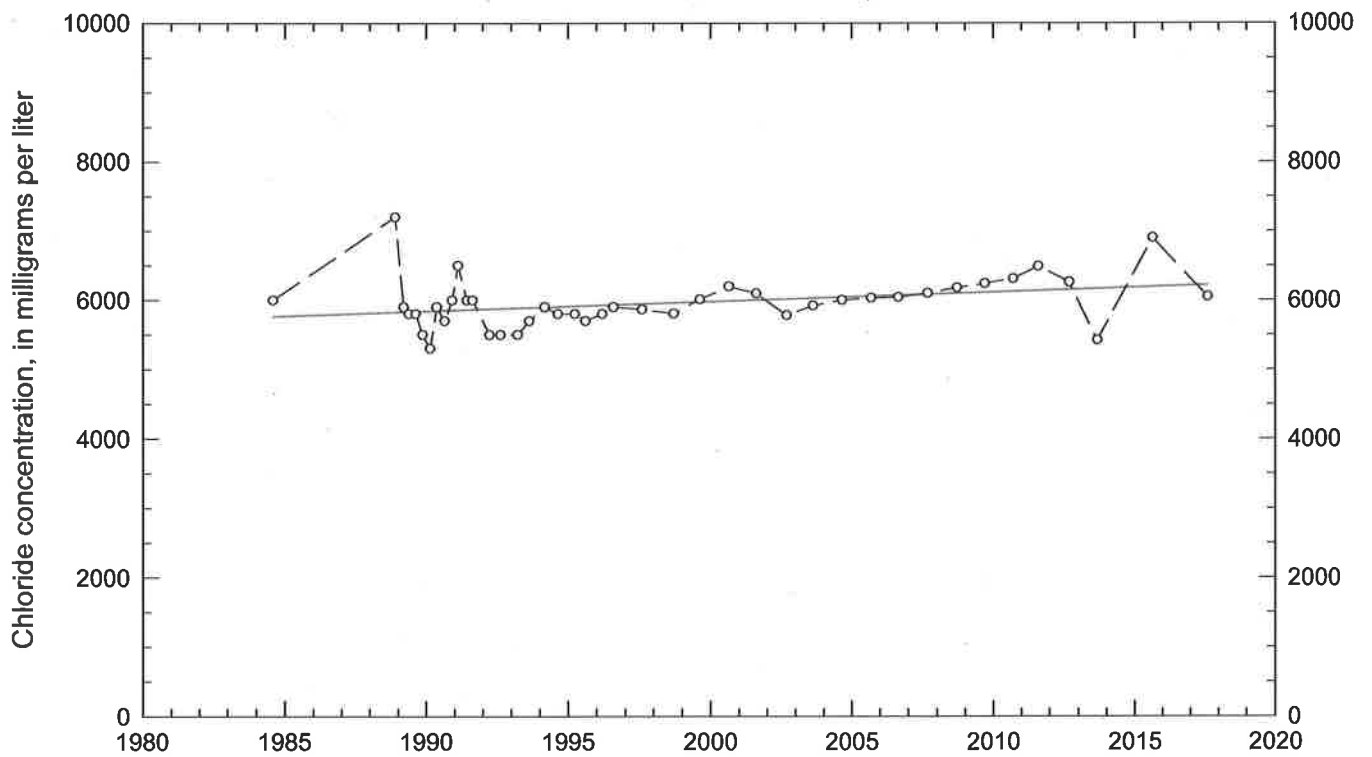
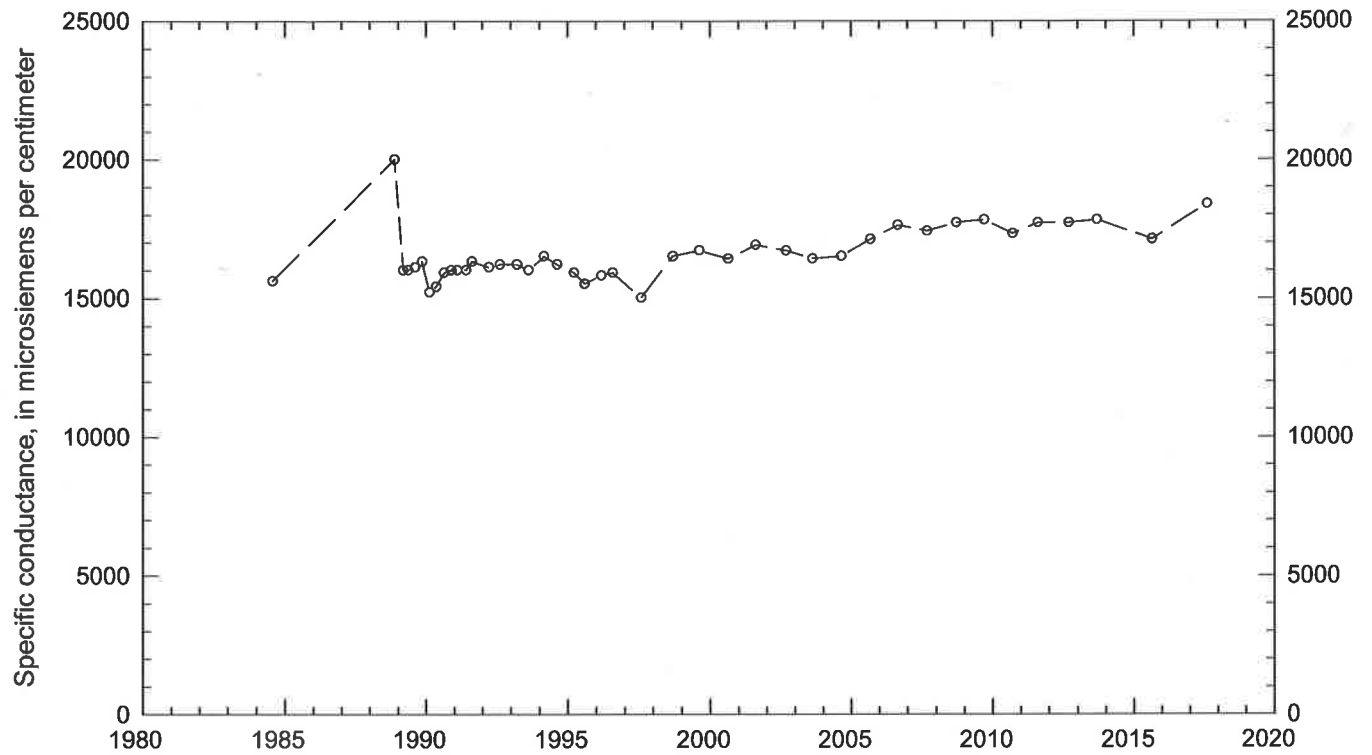
— Lab chloride regression



### QA Ea 60

Nov. 1997, added a separate primary well.

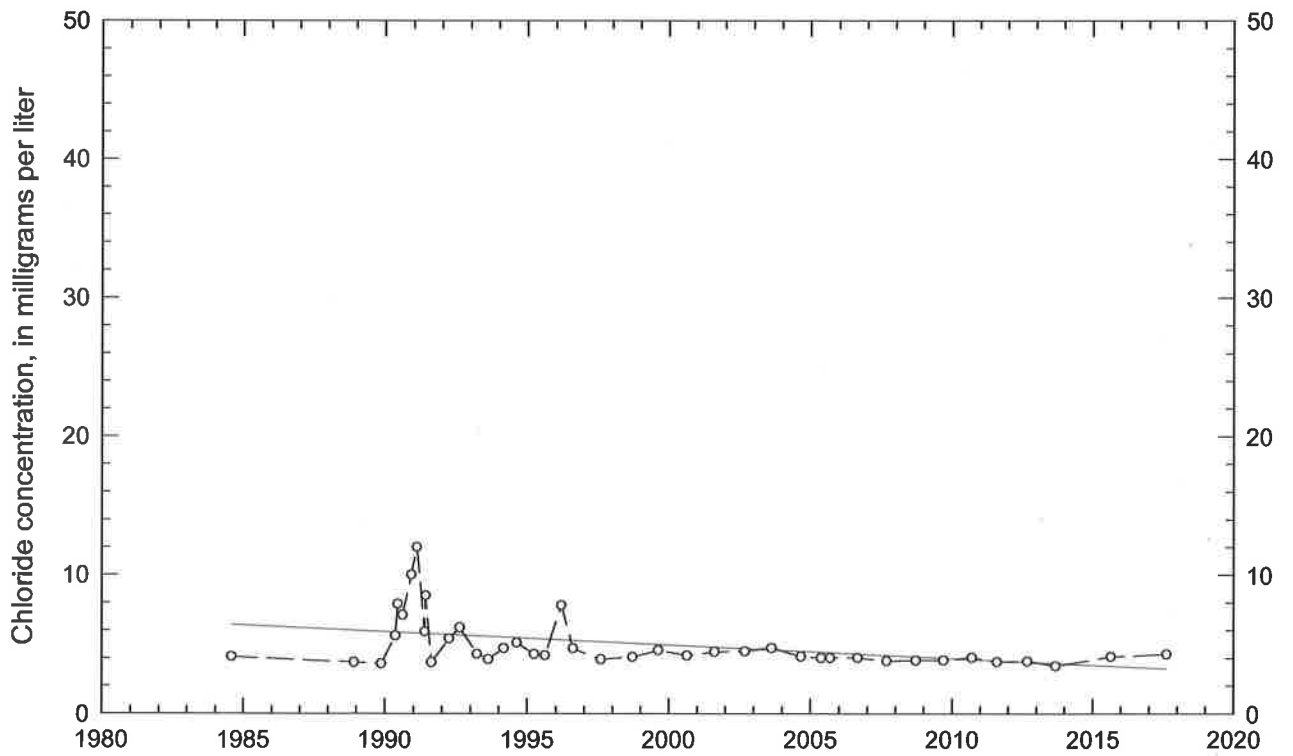
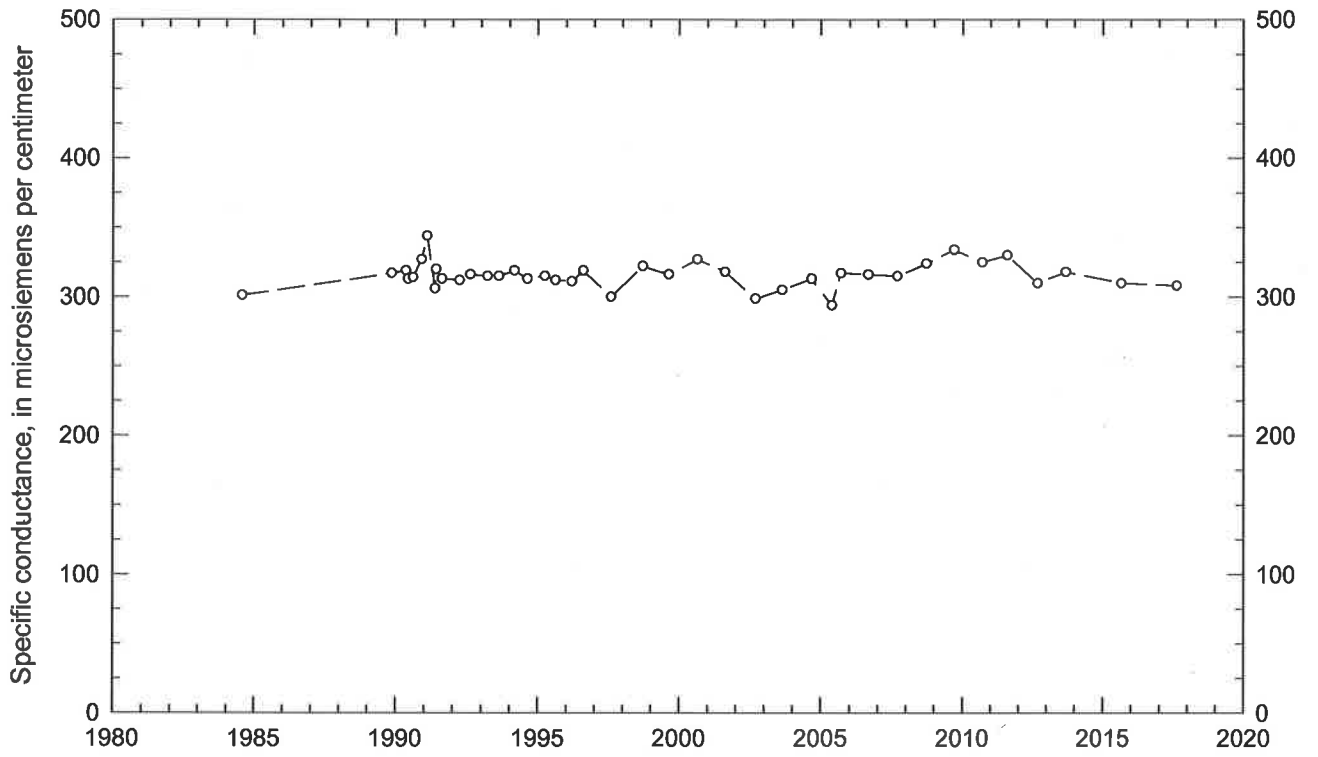
— Lab chloride regression



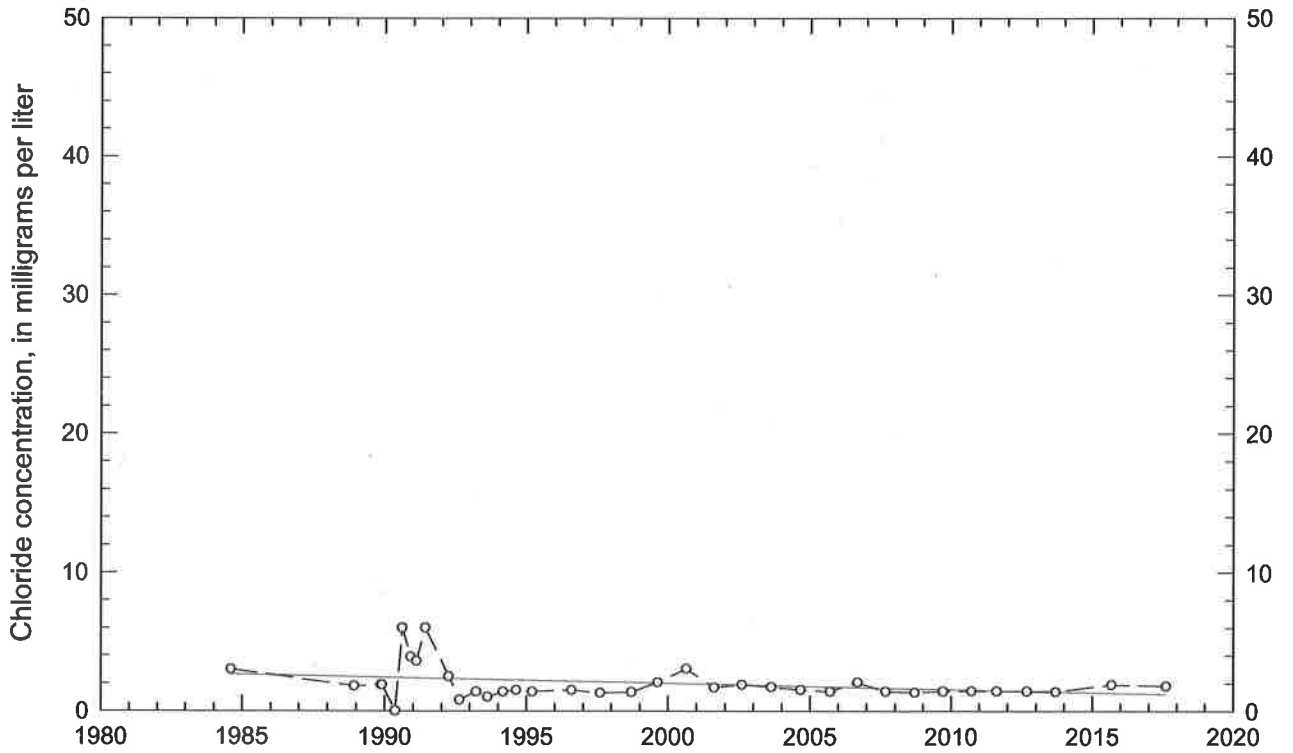
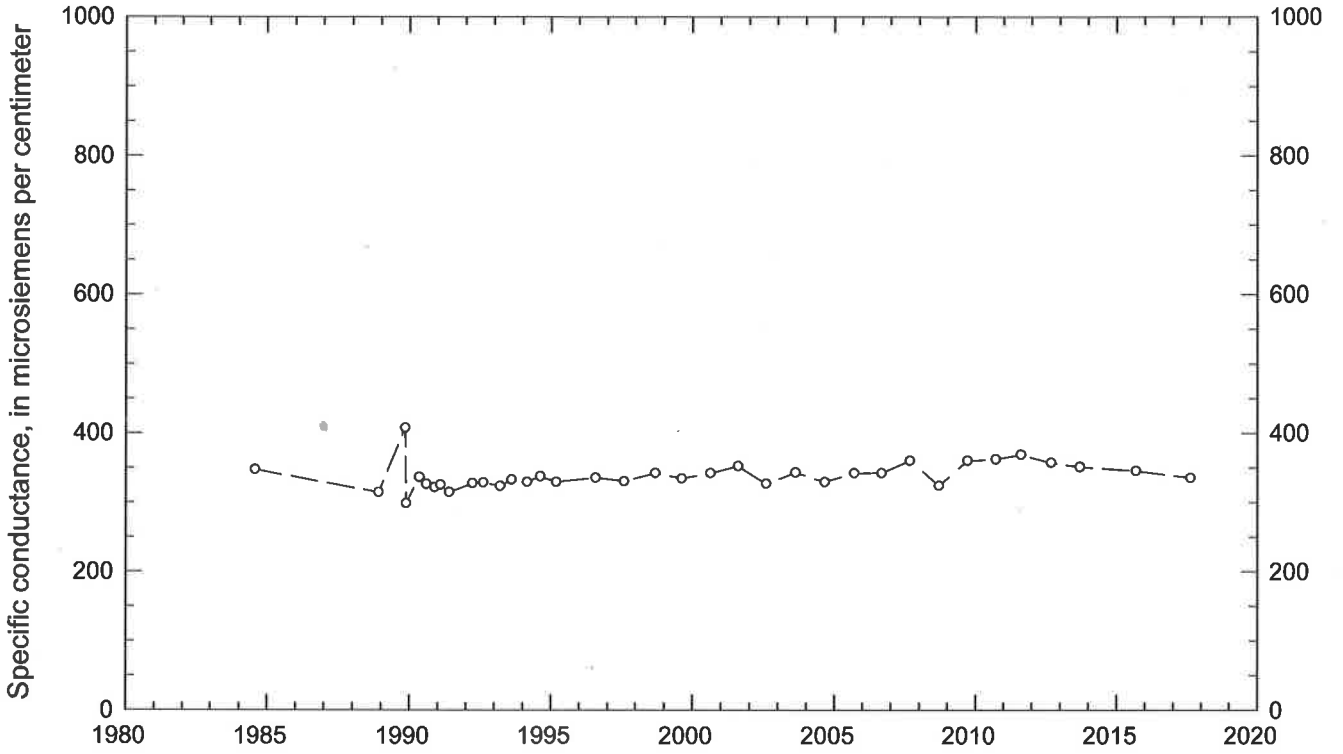
**QA Ea 77 (Matapeake-intermediate)**

— Lab chloride regression



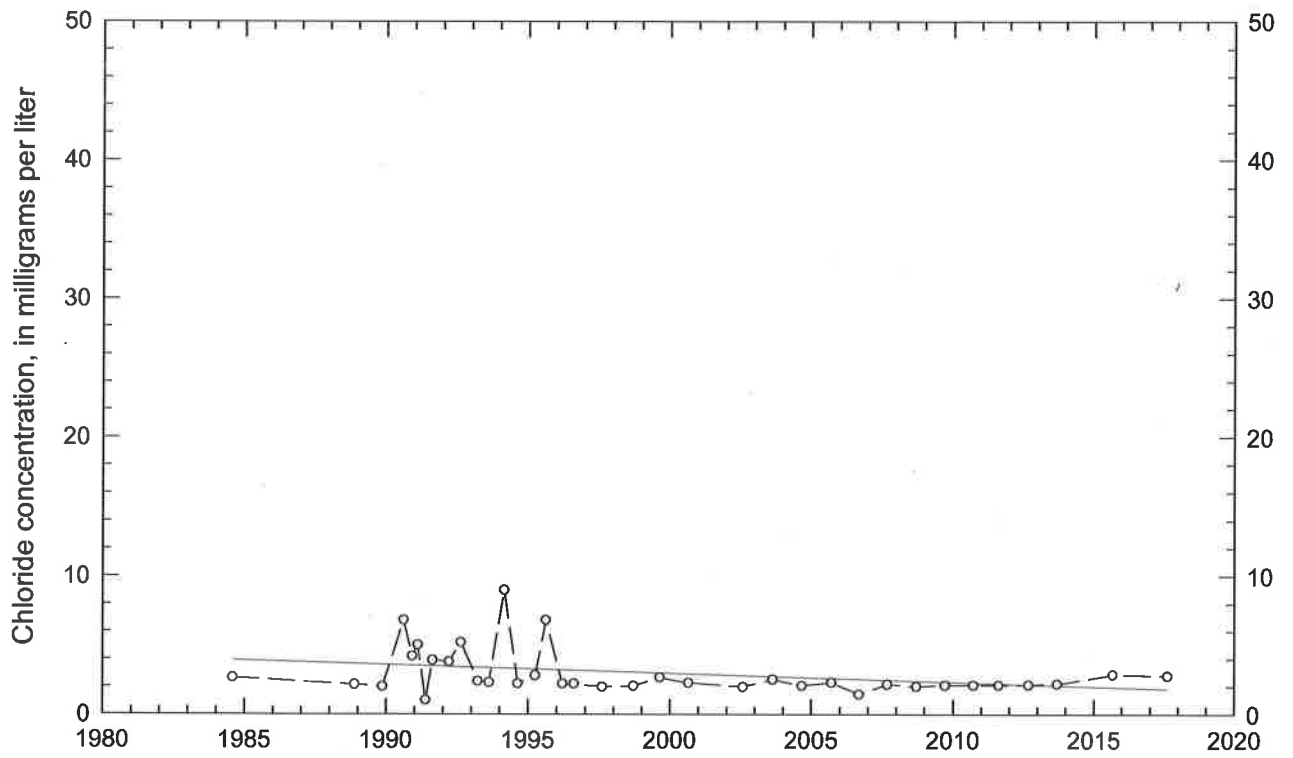
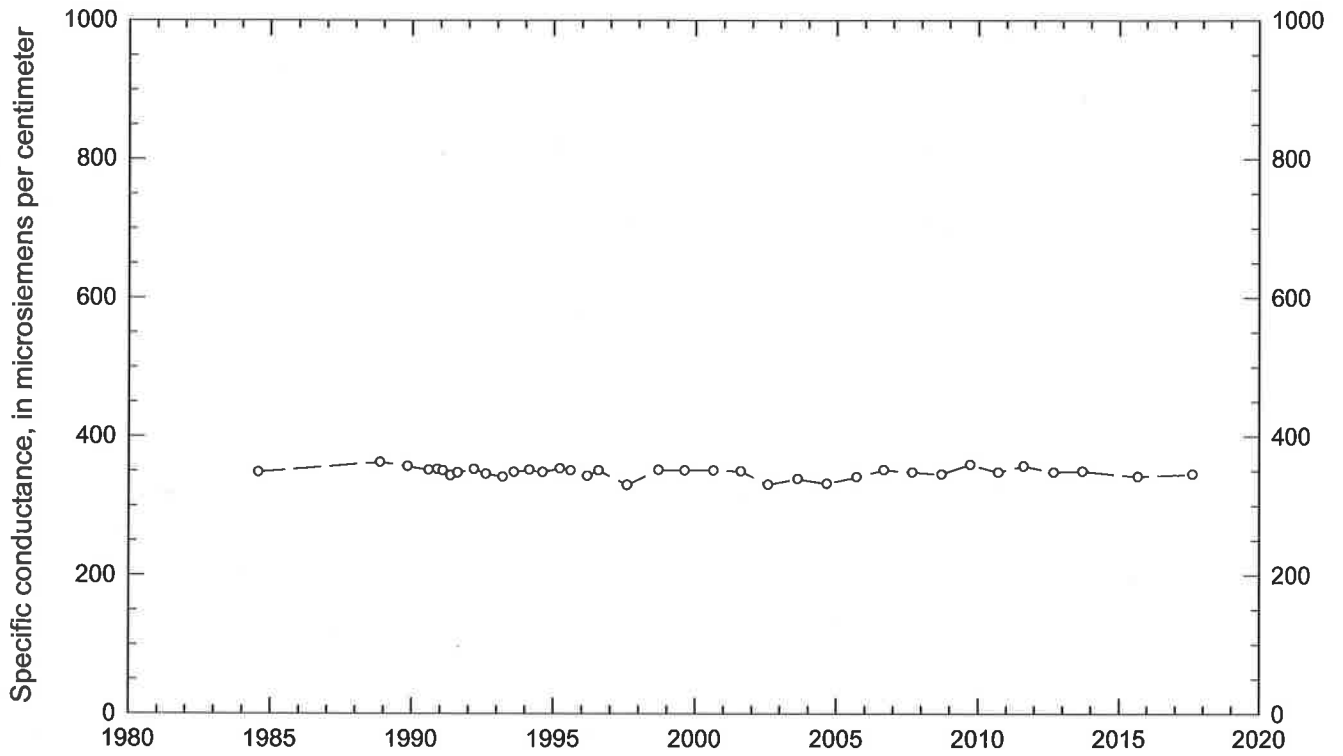


**QA Ea 78 (Matapeake-shallow)**

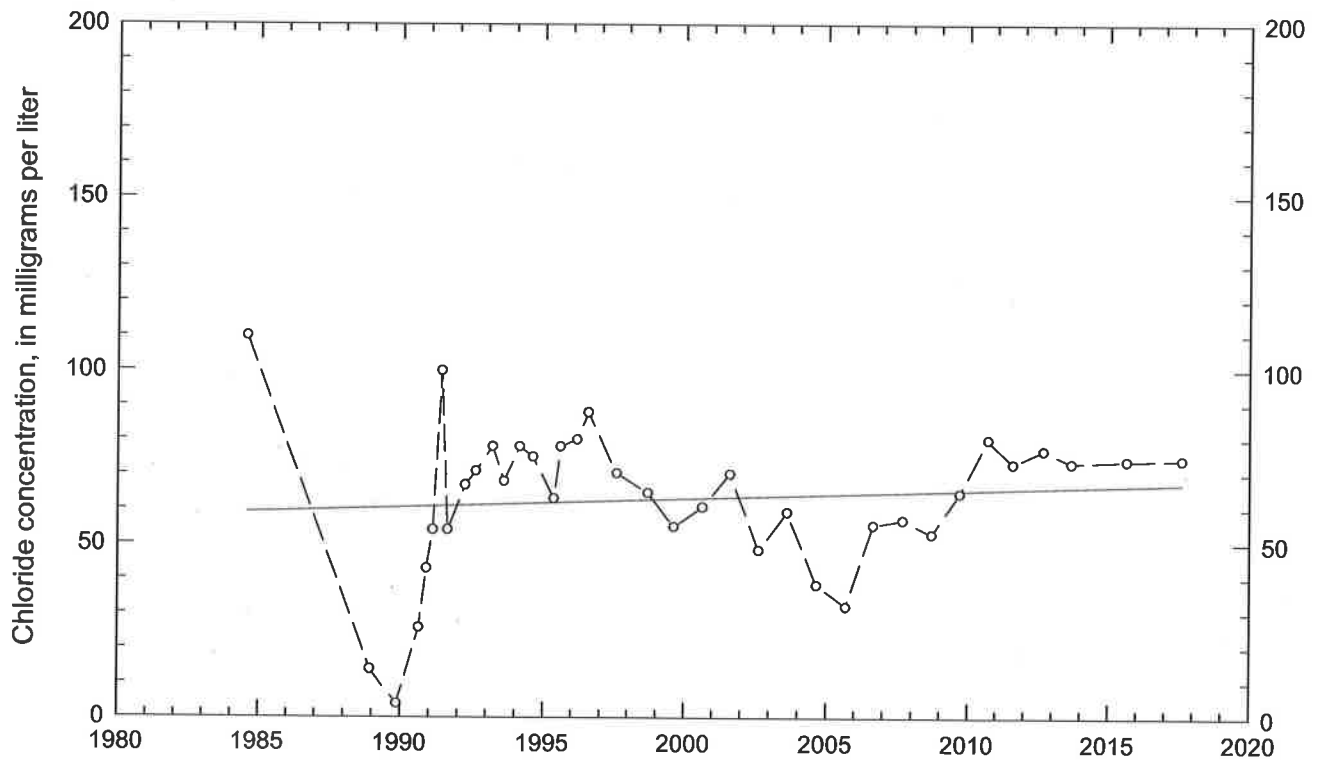
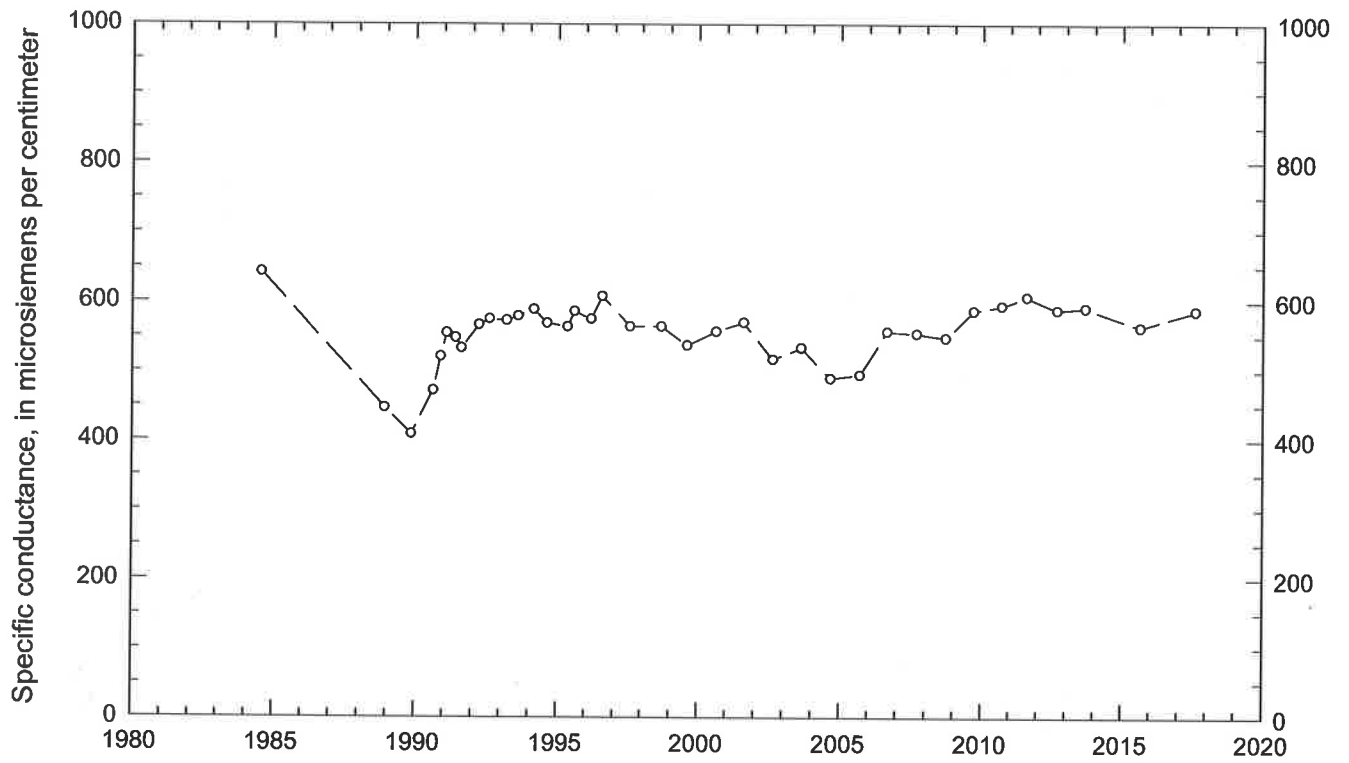


**QA Ea 79 (Mowbray Park-deep)**

— Lab chloride regression

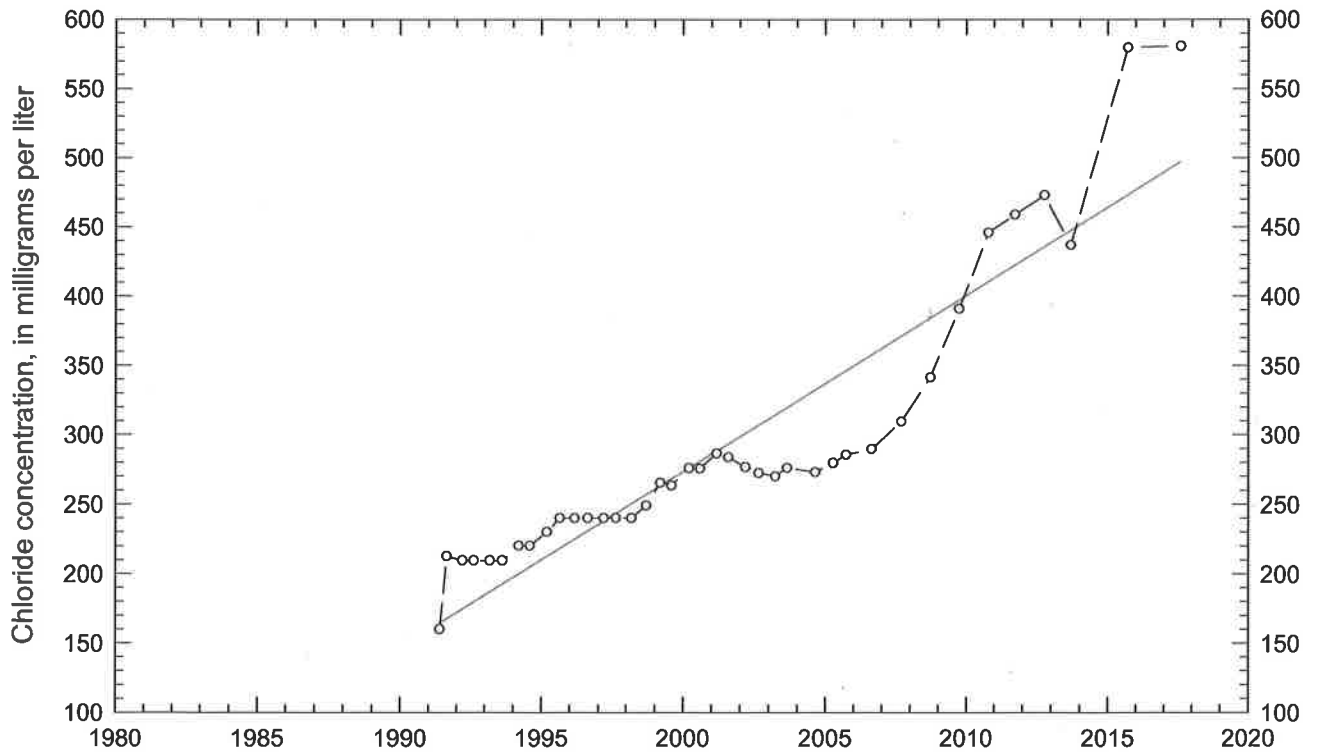
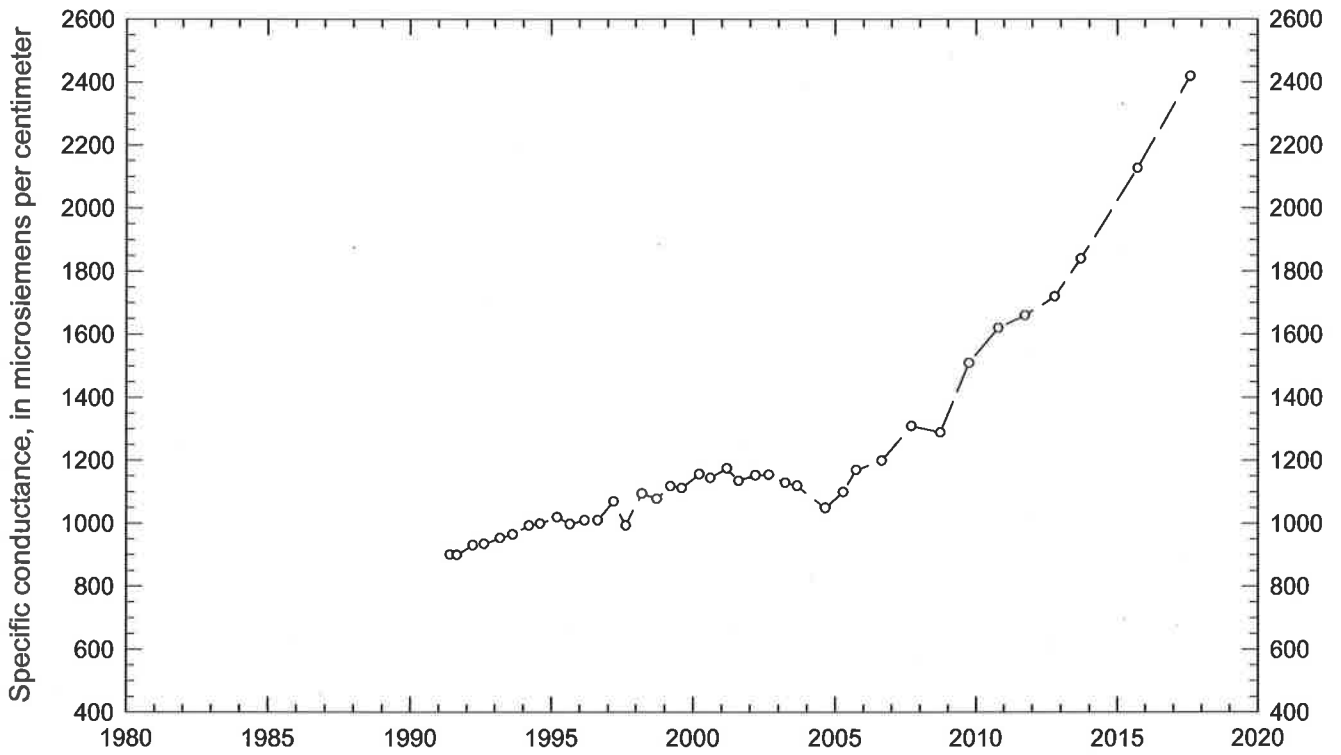


**QA Ea 80 (Mowbray Park-shallow)**



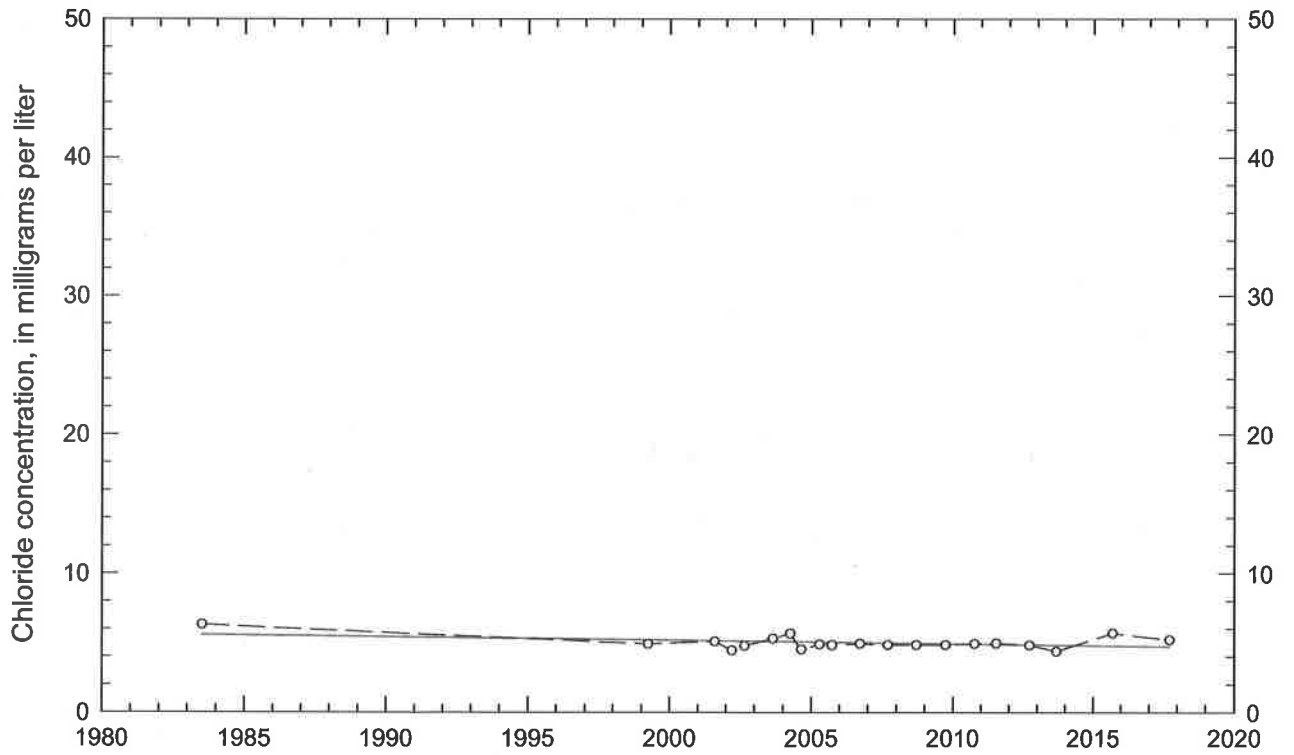
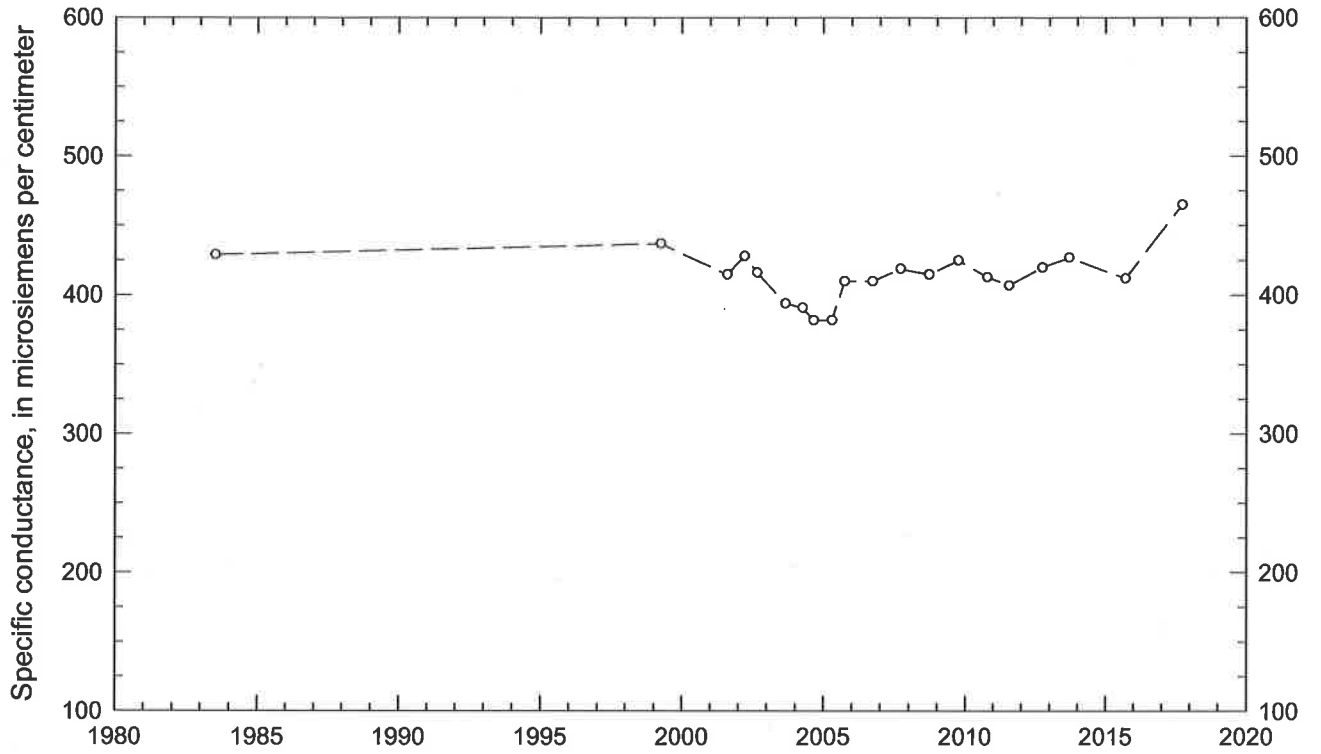
**QA Ea 81 (Matapeake-deep)**

— Lab chloride regression



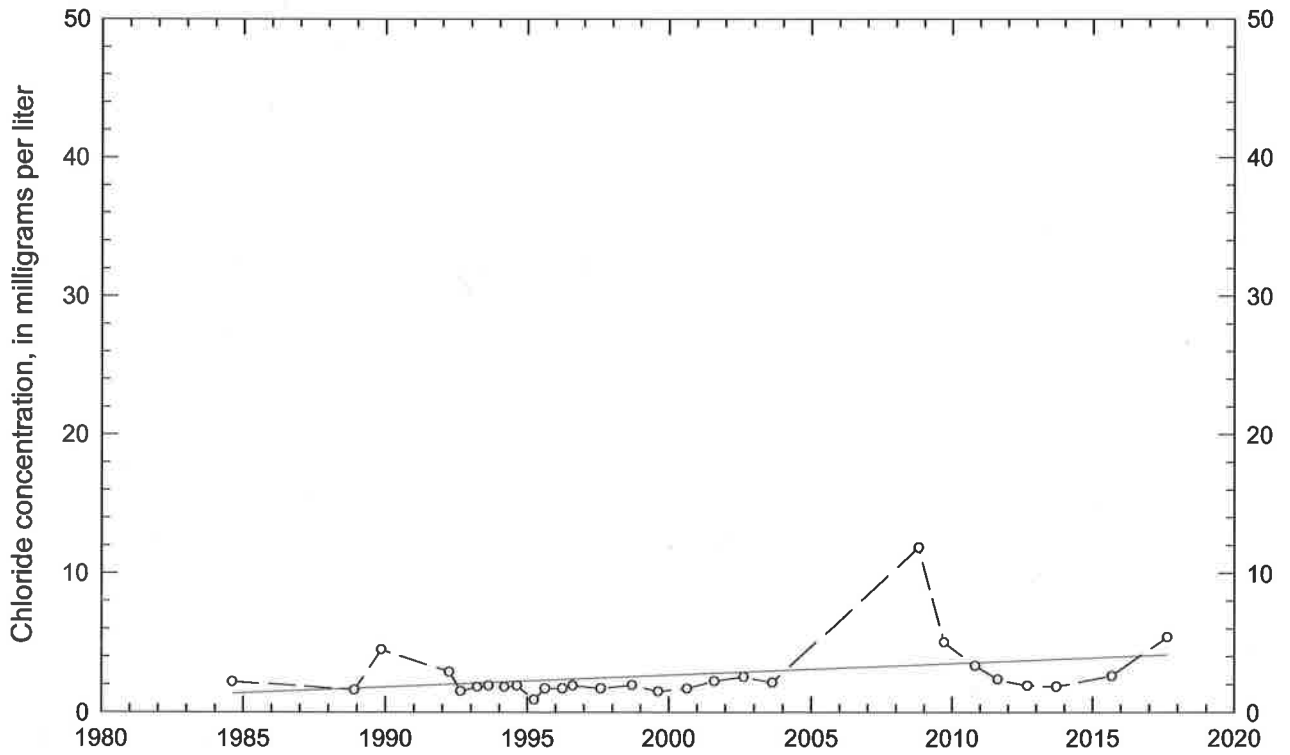
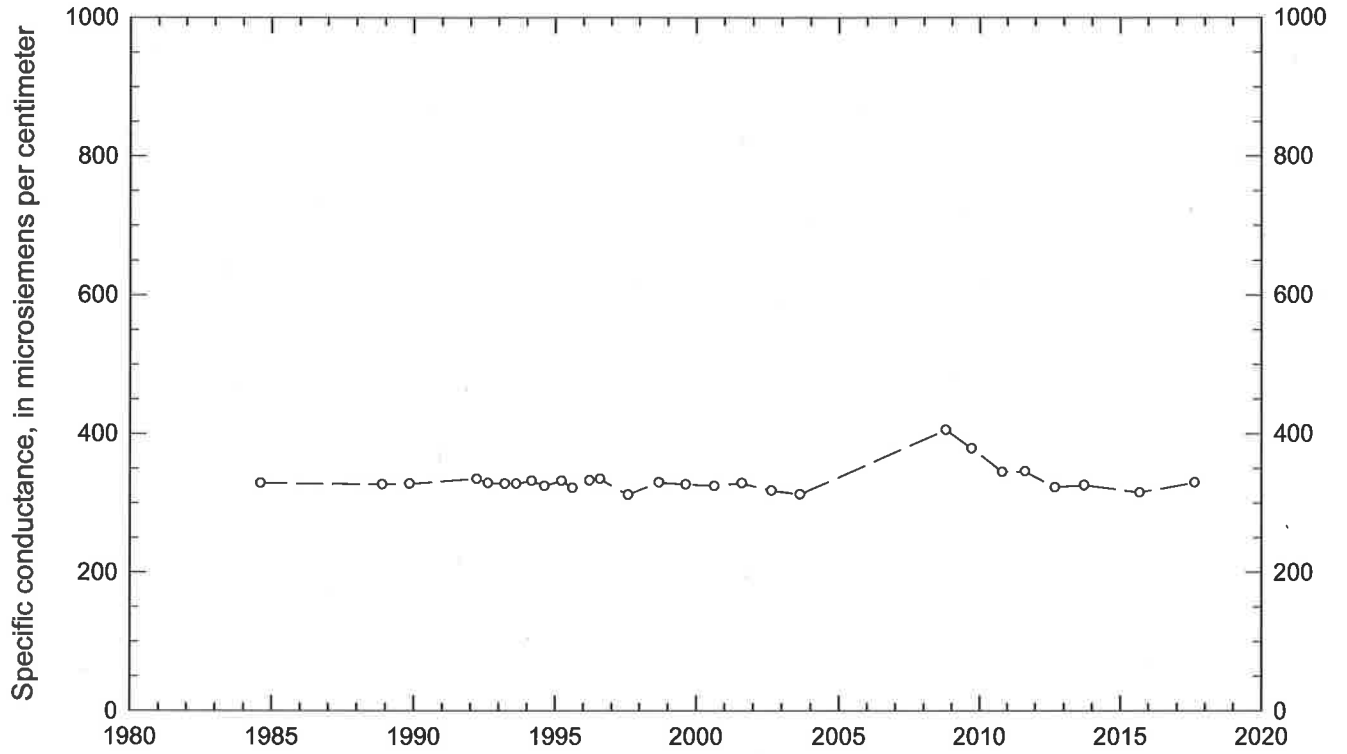
**QA Ea 82 (Goodhand well)**

— Lab chloride regression



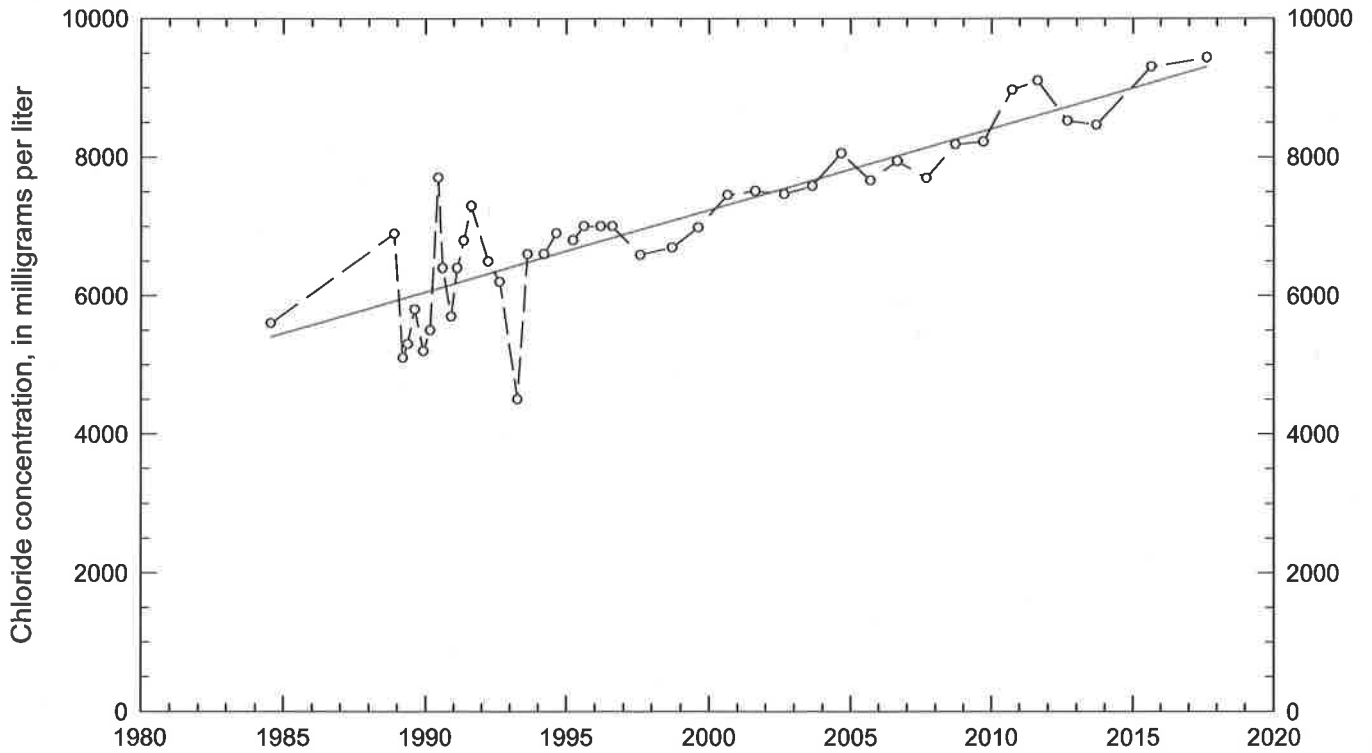
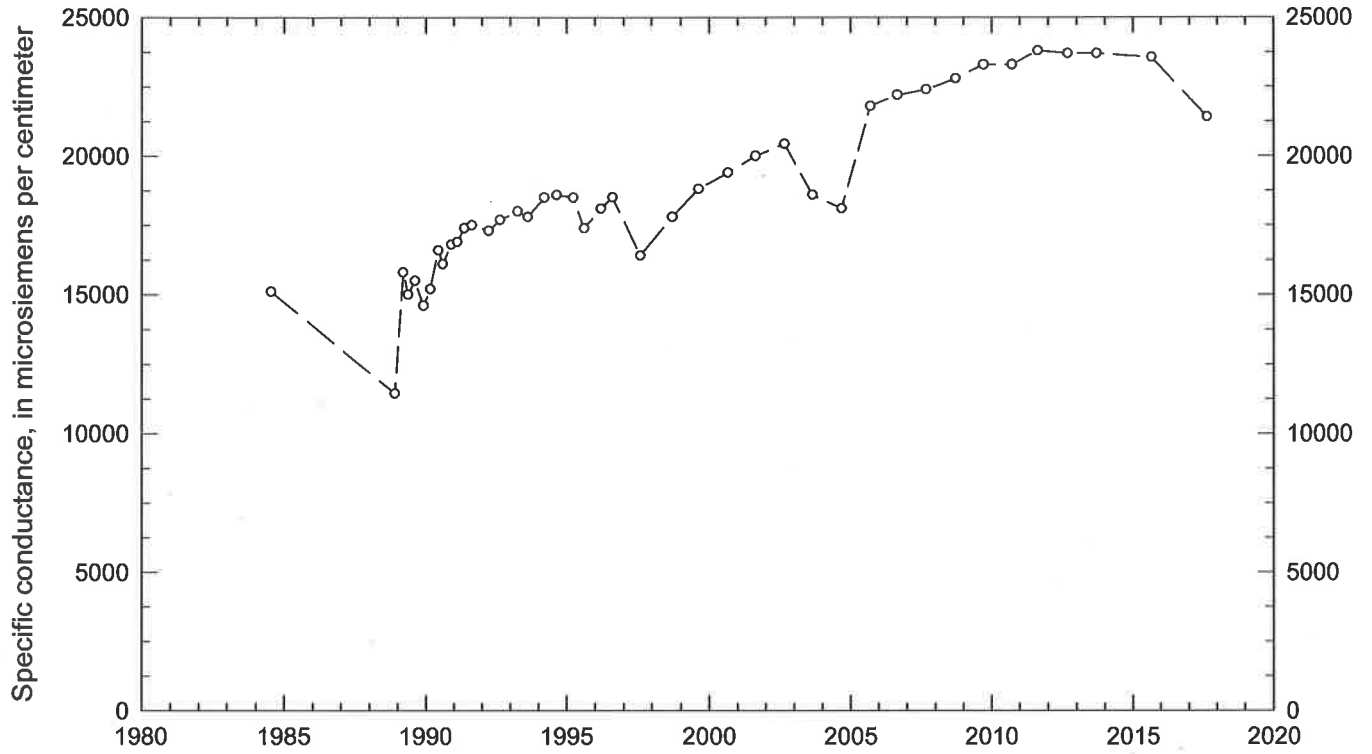
QA Eb 144 (Lewis)

— Lab chloride regression



**QA Eb 155 (Piney Creek)**

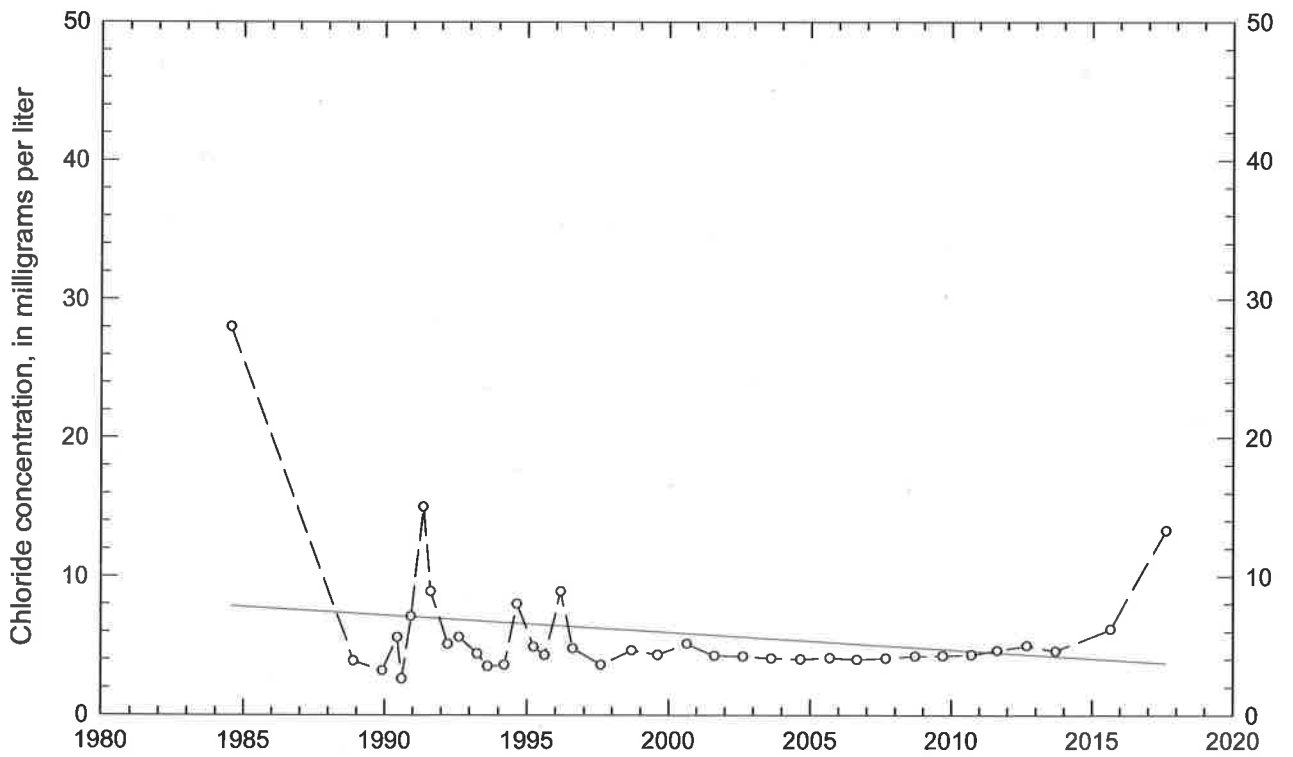
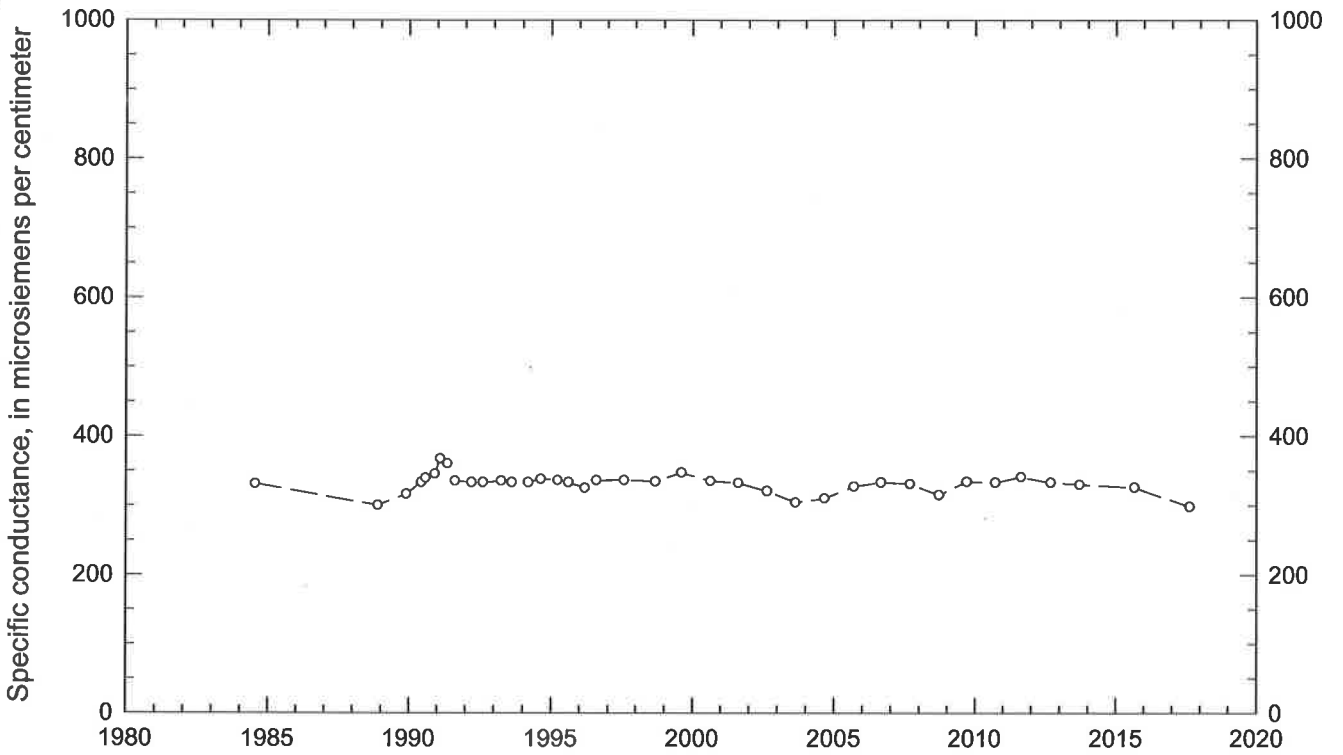
— Lab chloride regression



**QA Eb 156 (Route 50 well-deep)**

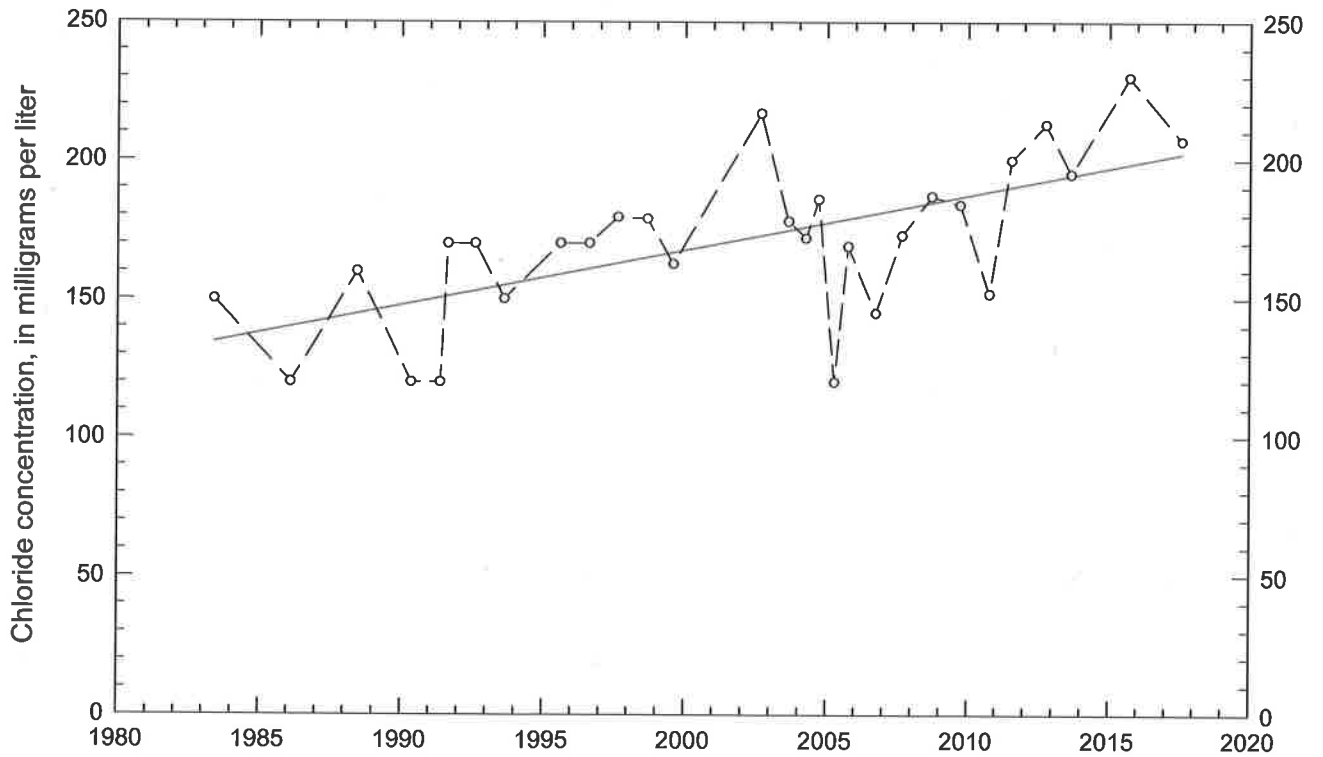
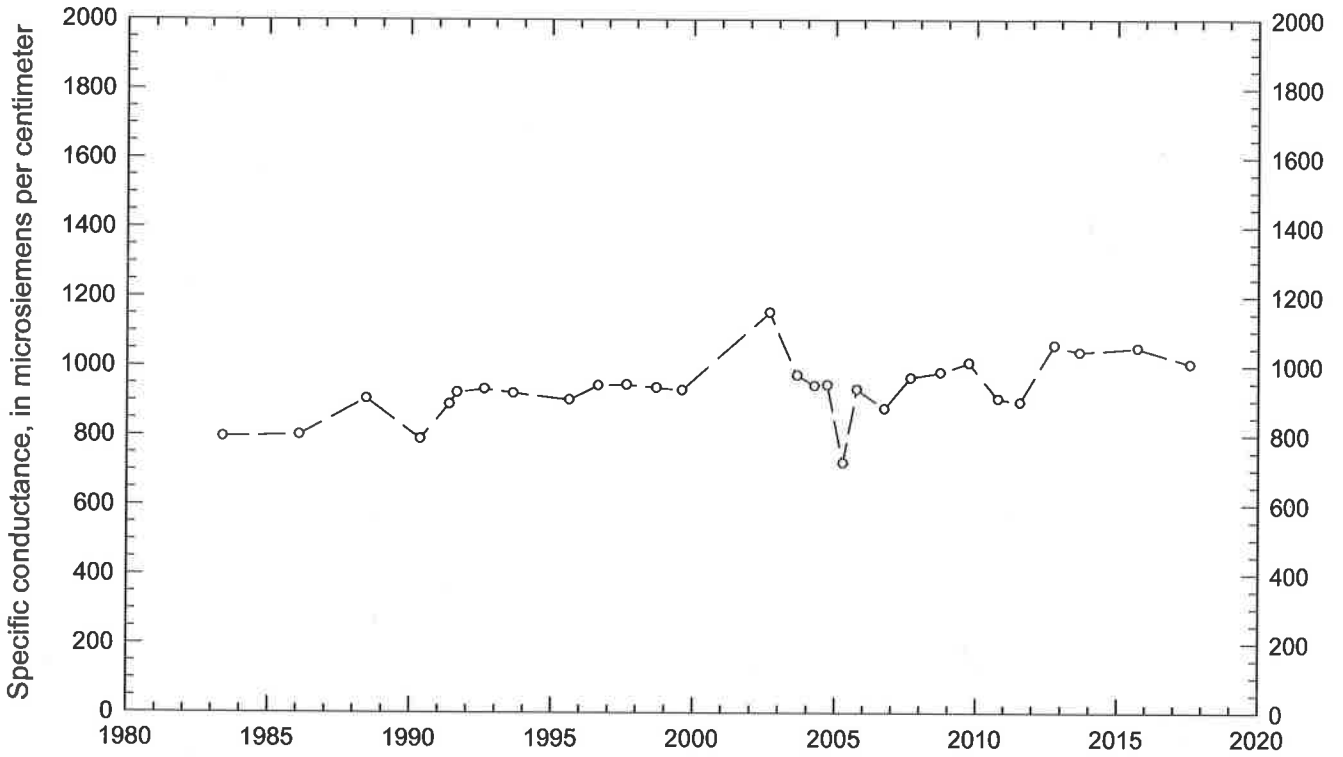
— Lab chloride regression





**QA Eb 157 (Route 50 well-shallow)**

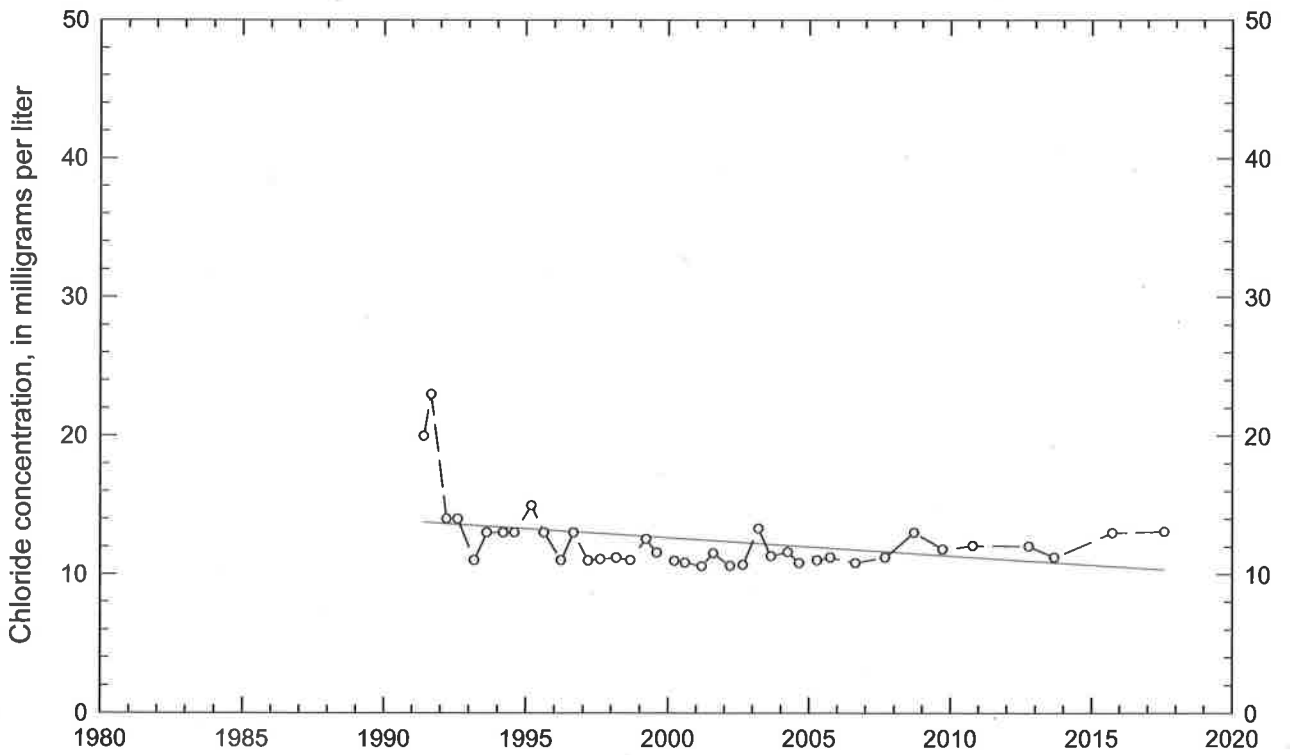
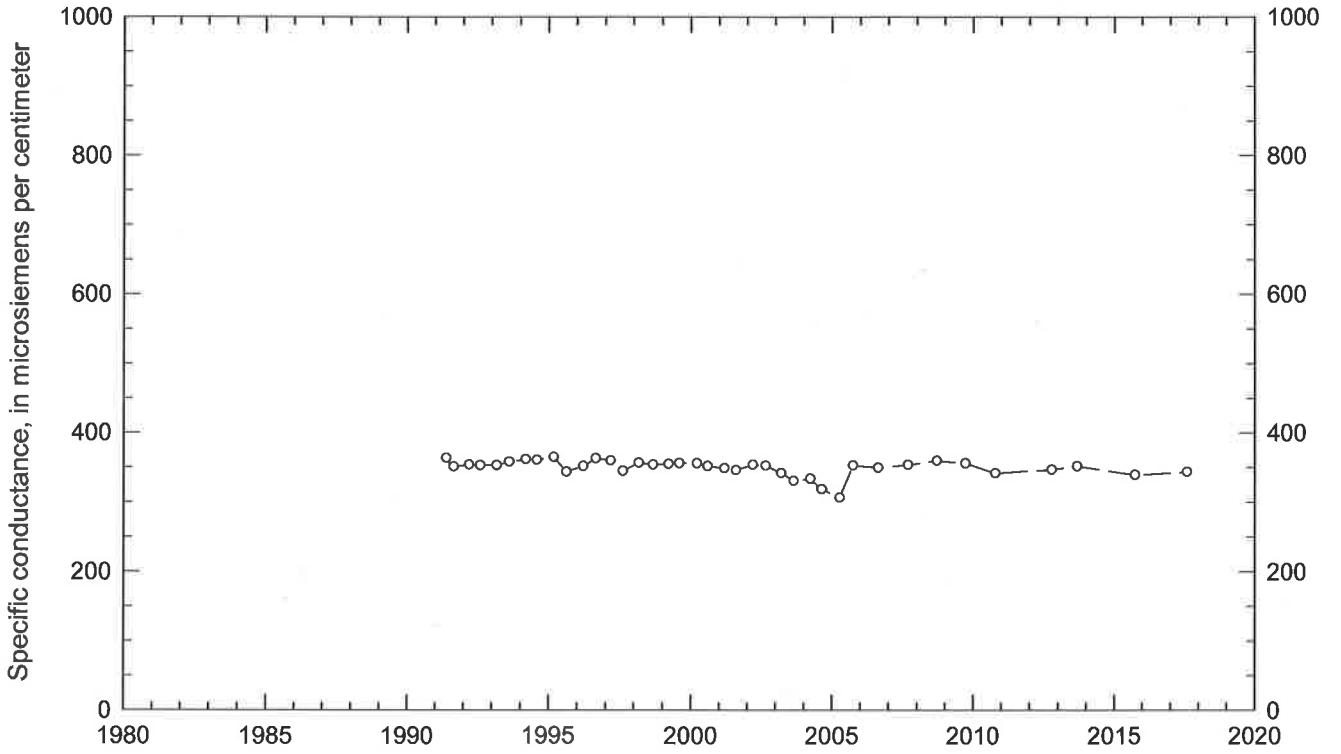
— Lab chloride regression



**QA Fa 49 (Queen Anne Marina)**

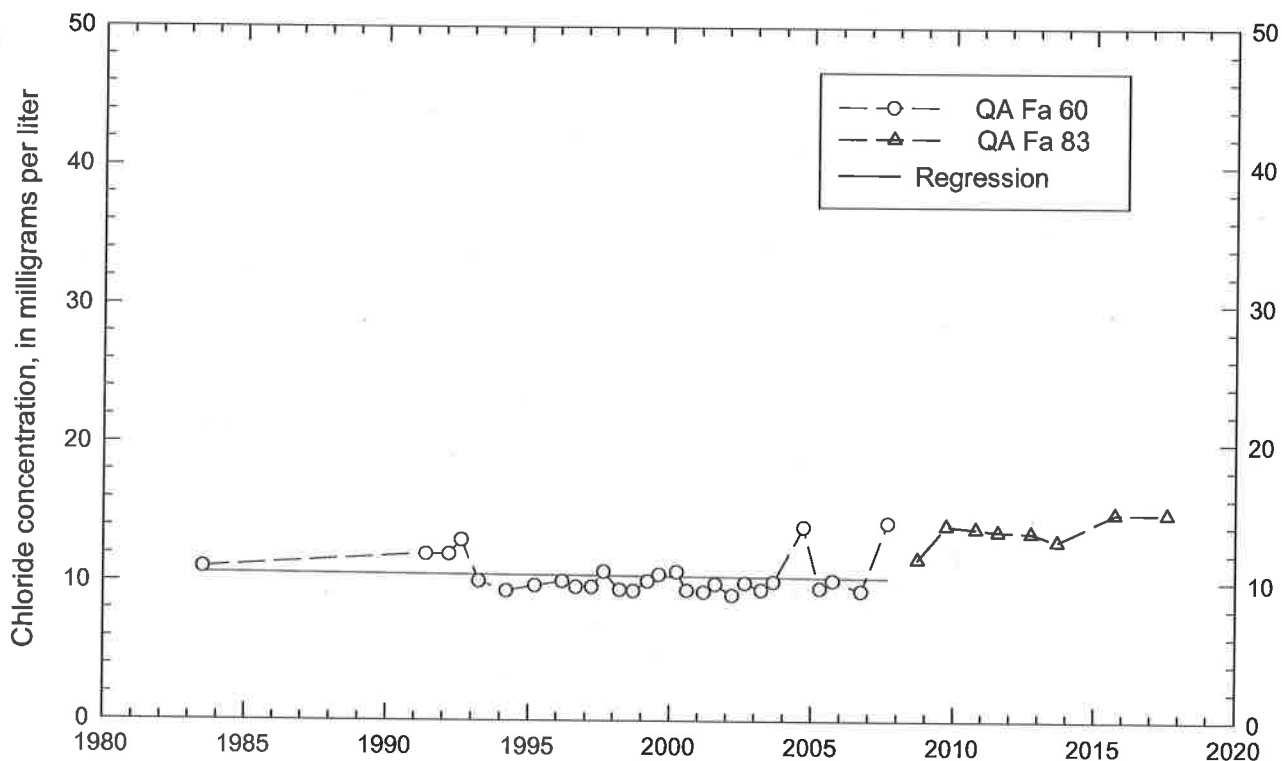
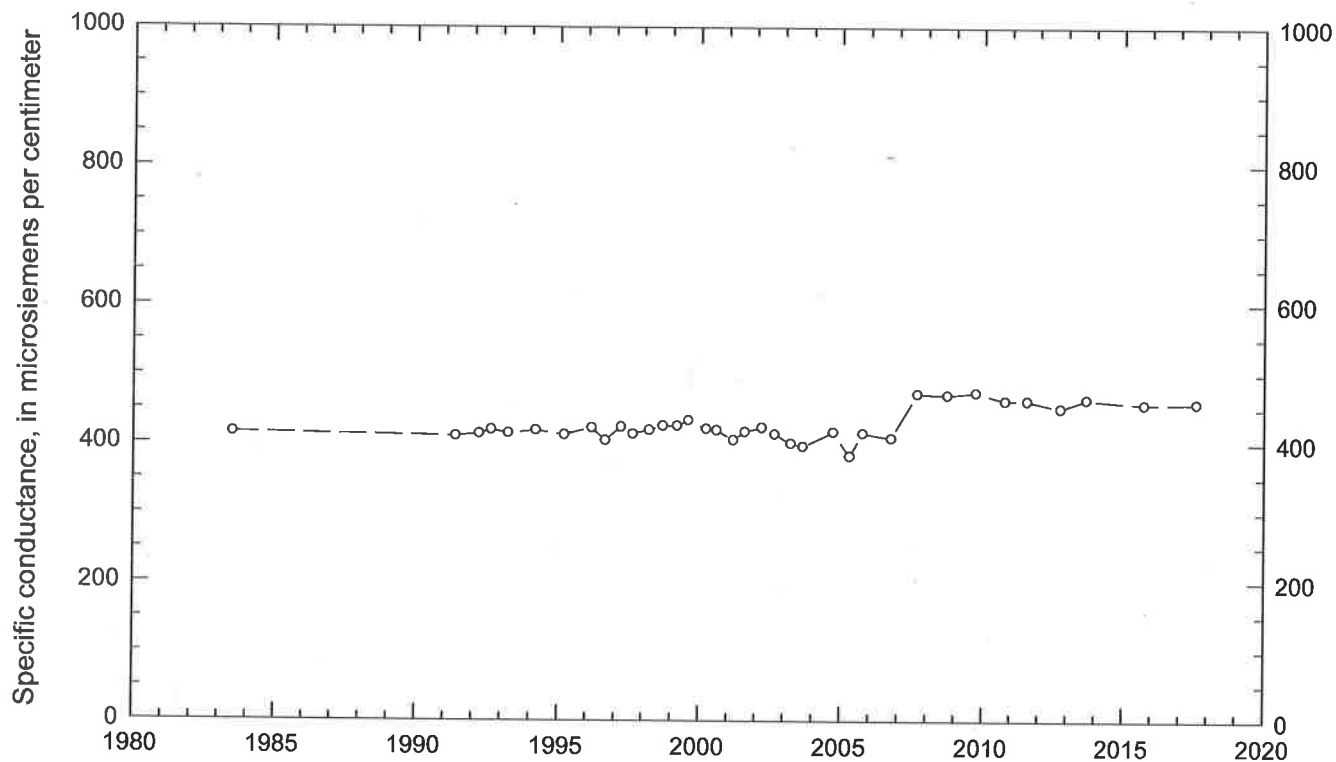
— Lab chloride regression

Samples collected from 2000 to 2007 and 2010 to 2011 were collected after passing through a water softener.



QA Fa 54

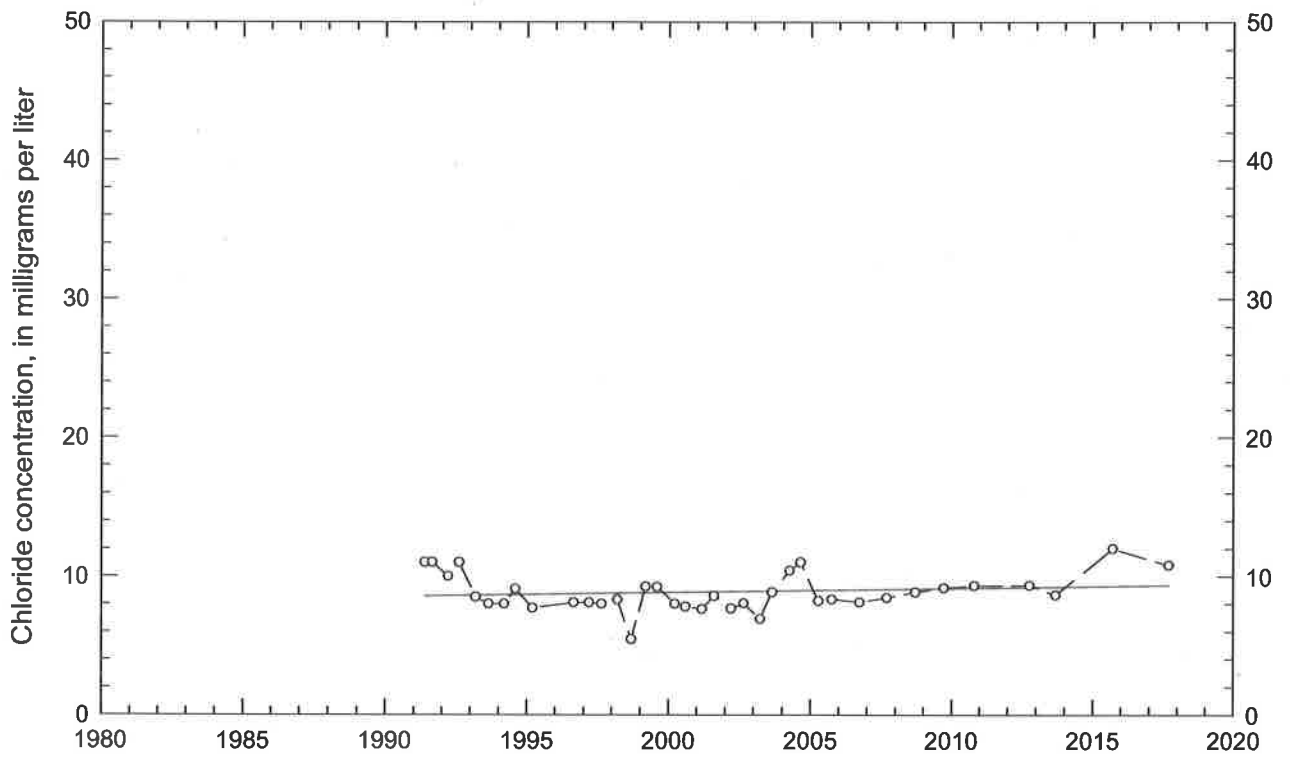
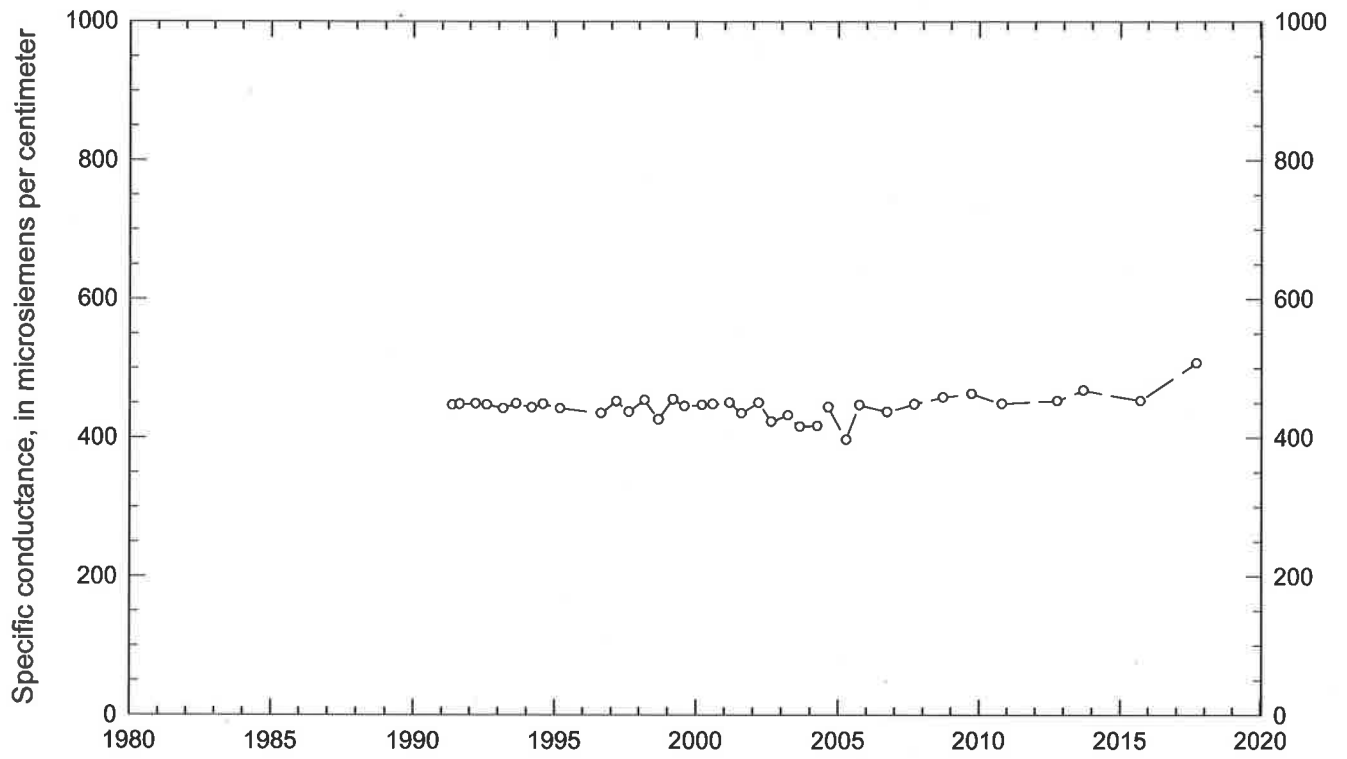
— Lab chloride regression



### QA Fa 60; Fa 83 (Romance Volunteer Fire Dept.)

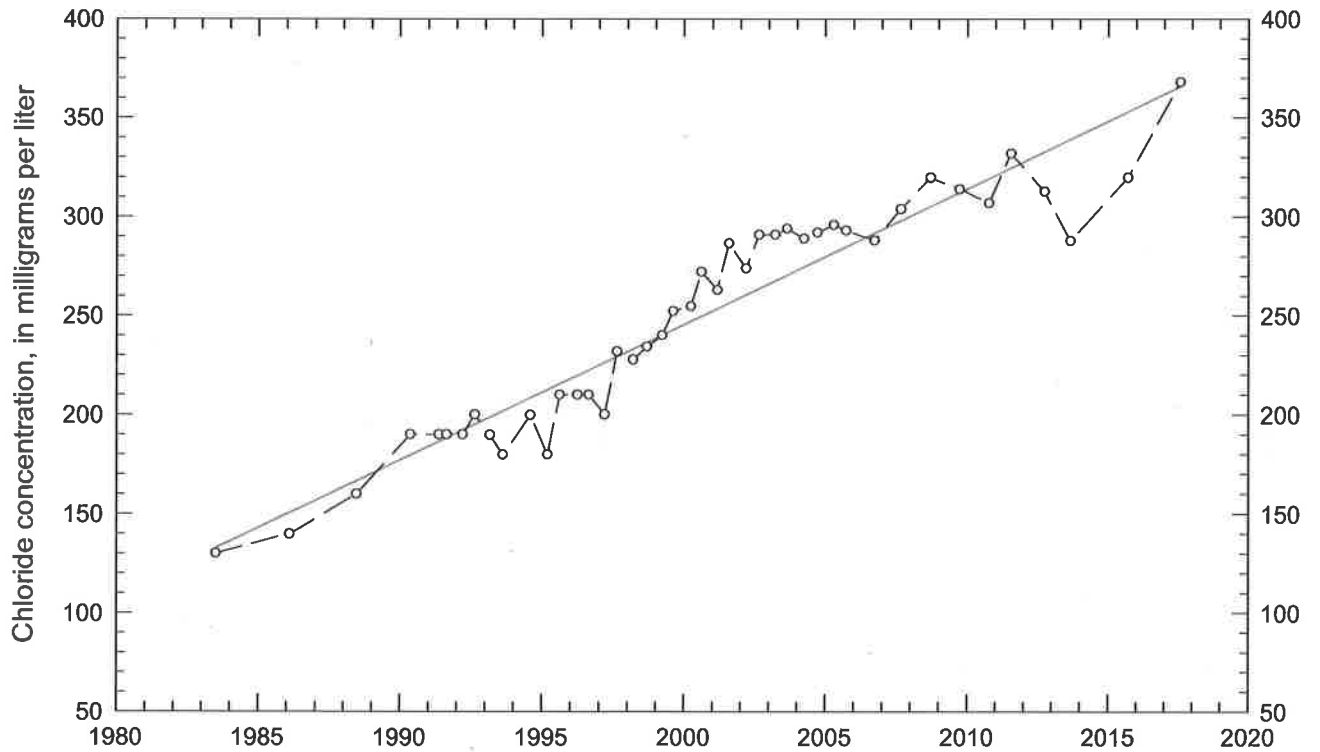
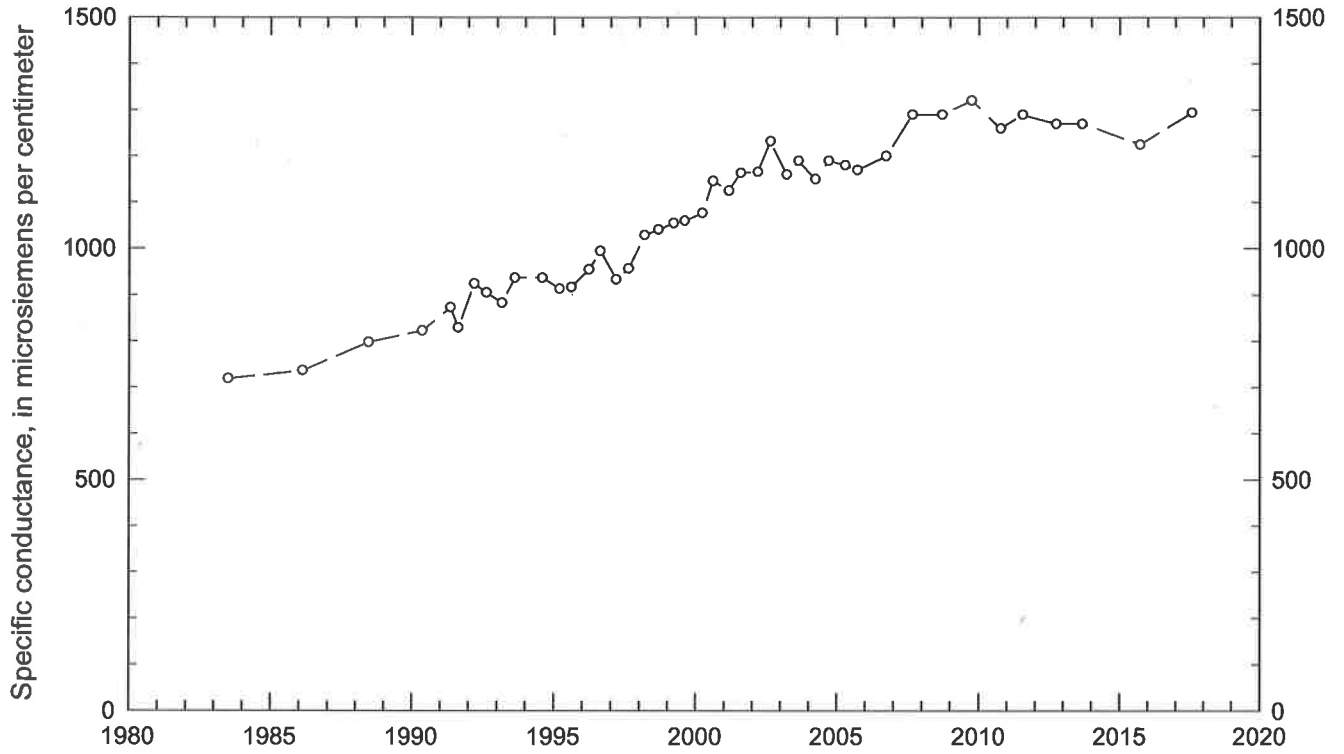
QA Fa 60 replaced by QA Fa 83 beginning in 2008

— Lab chloride regression



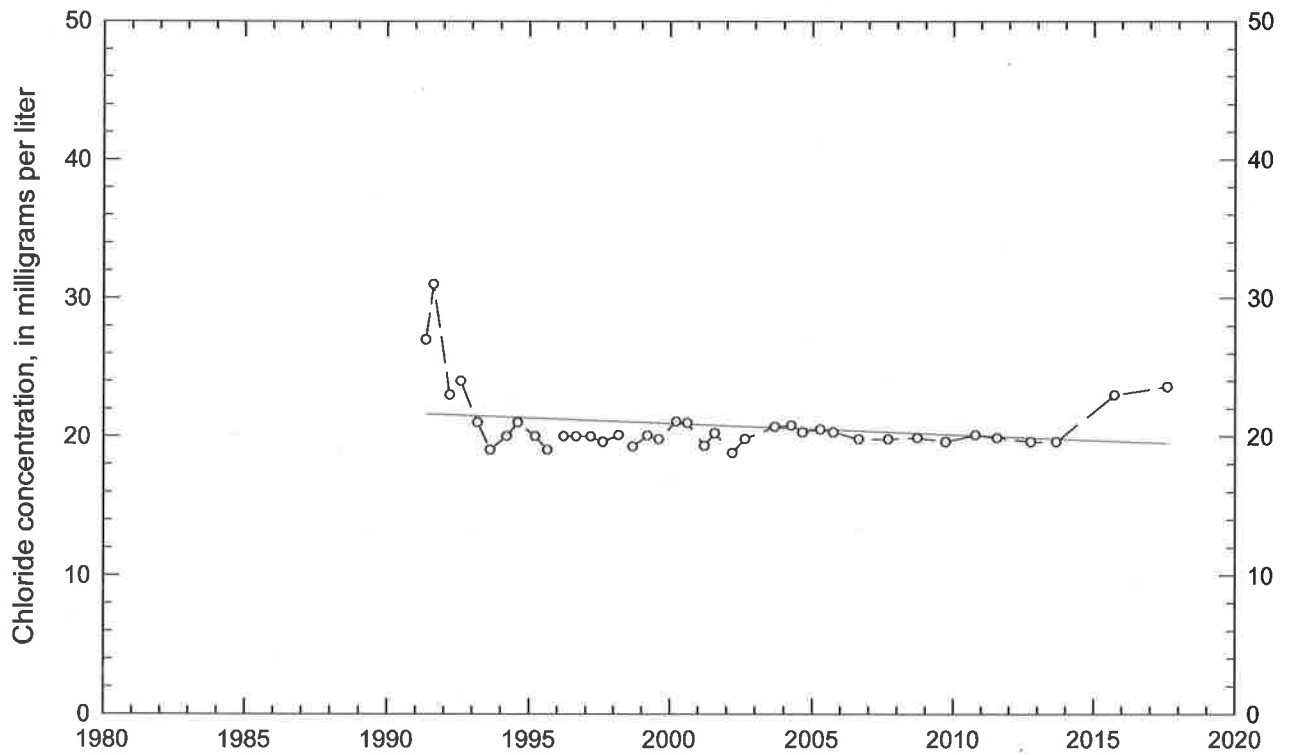
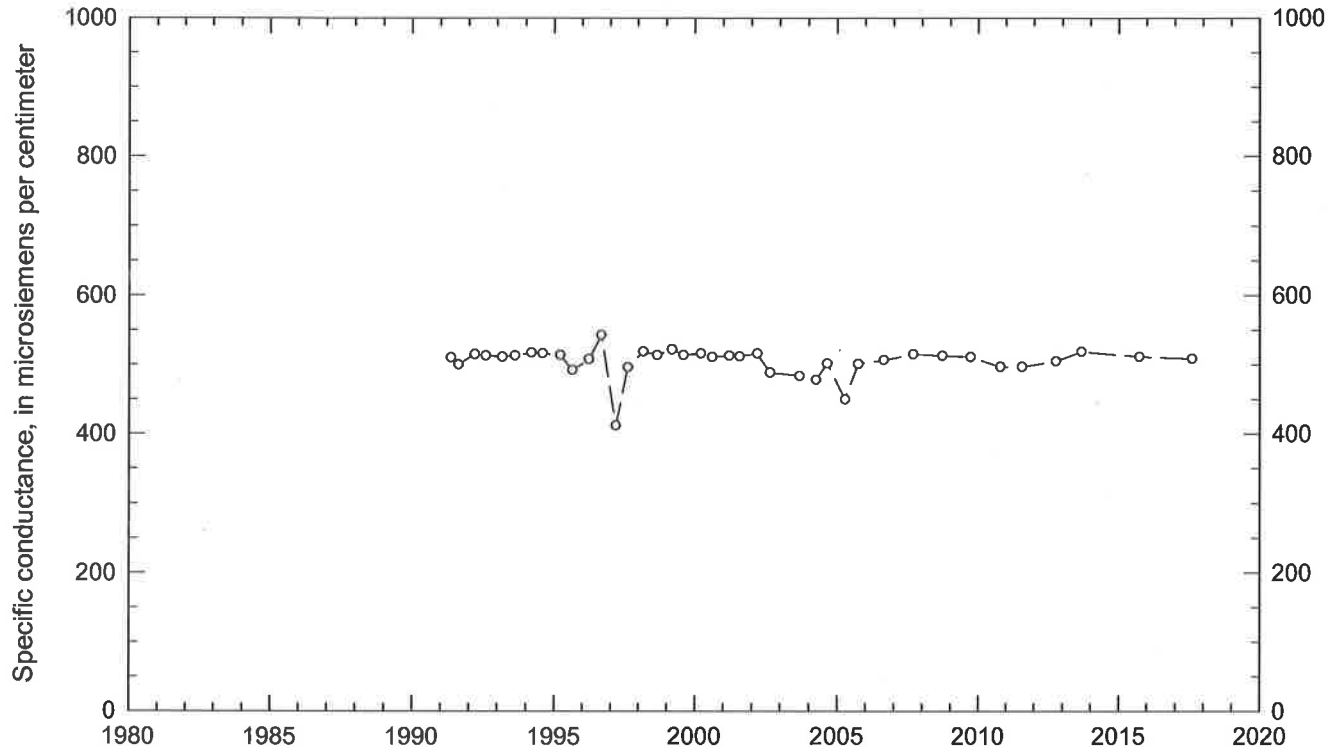
**QA Fa 63 (Cannon well)**

— Lab chloride regression



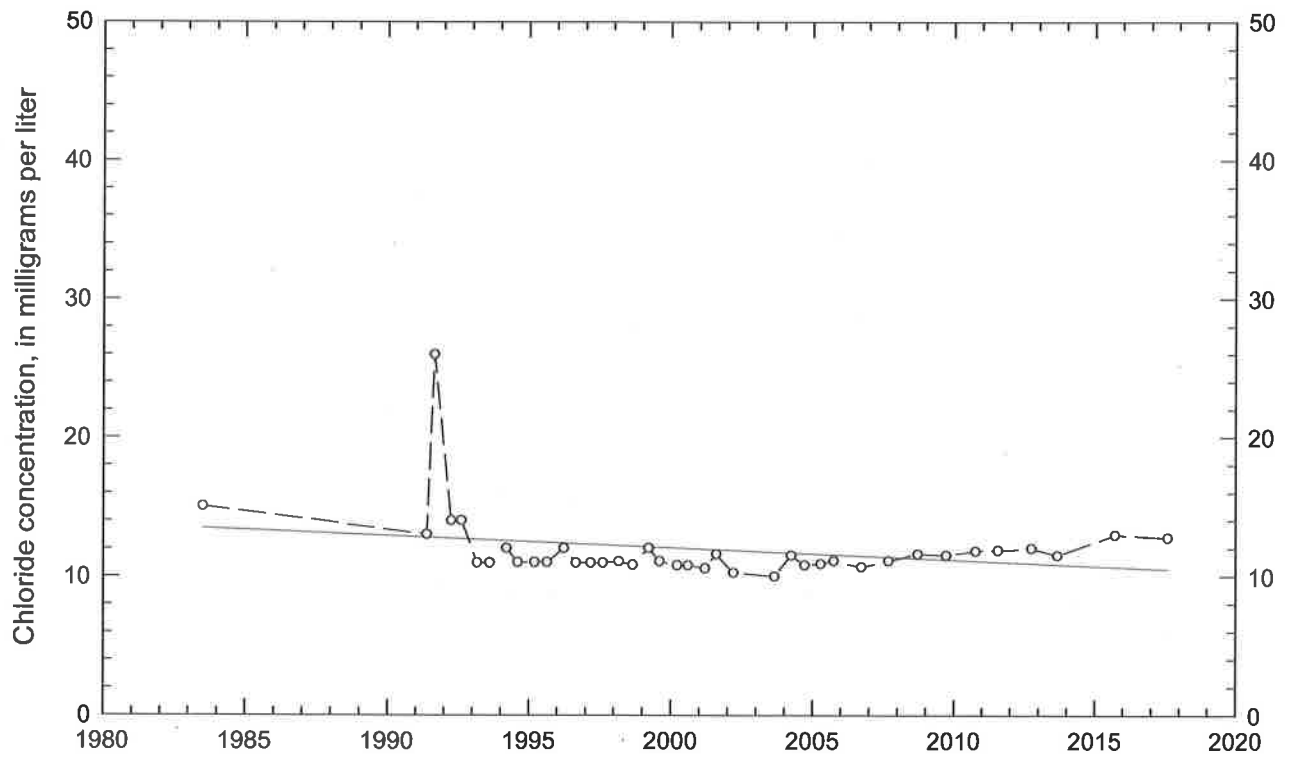
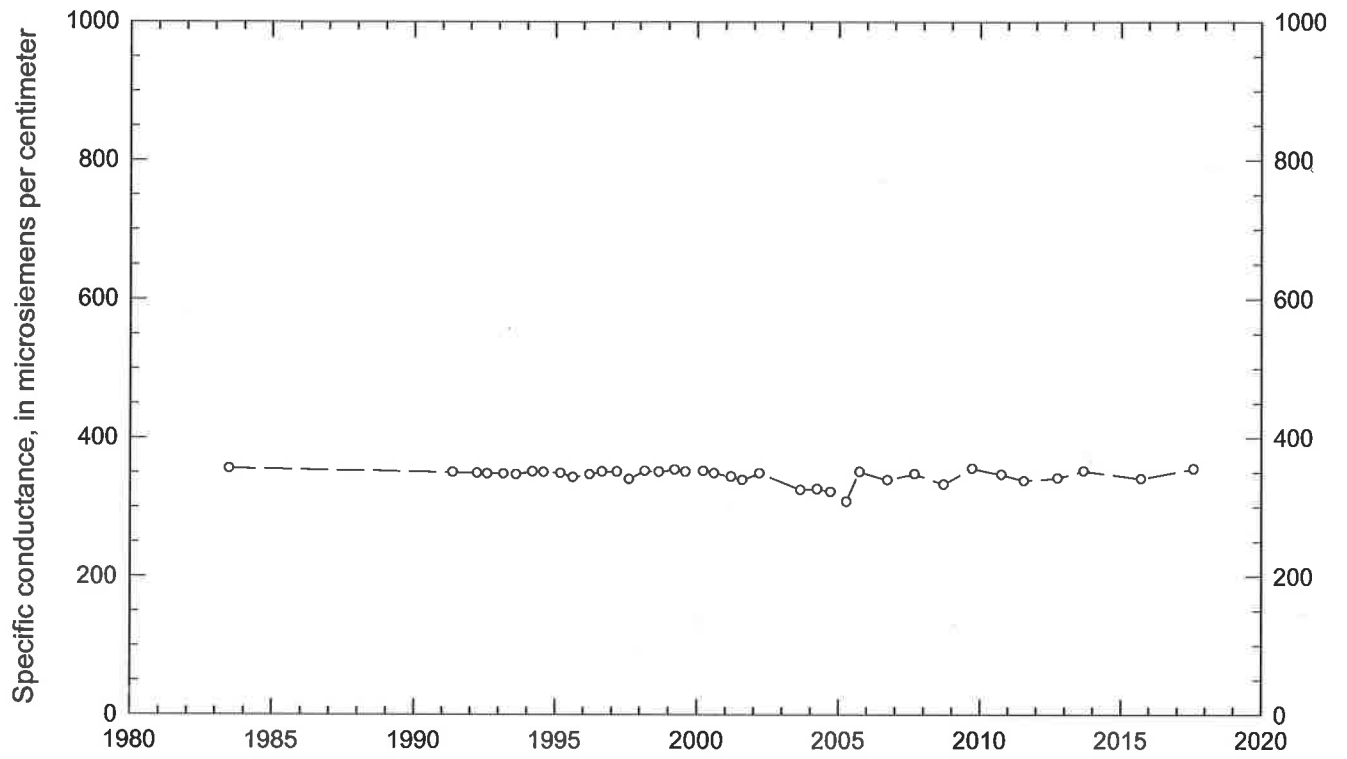
**QA Fa 64 (Kentmorr Harbour Marina)**

— Lab chloride regression



**QA Fa 66 (Ware well)**

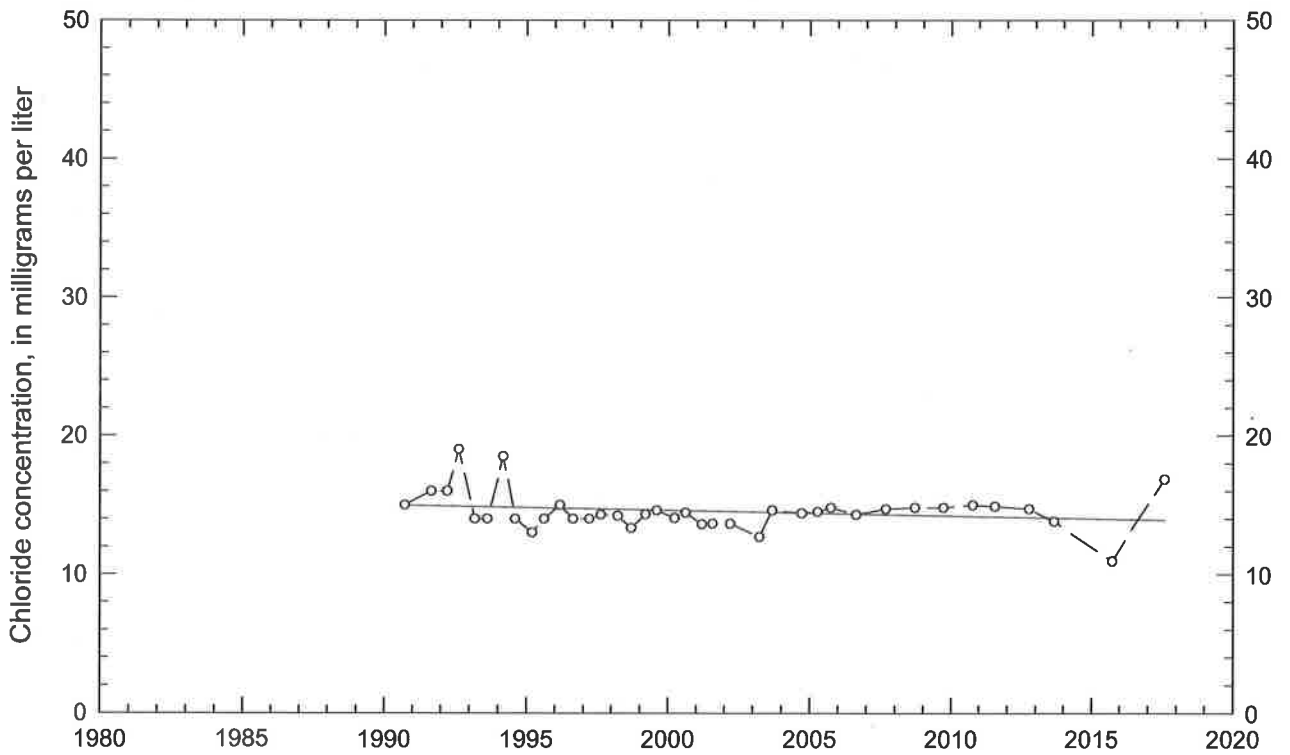
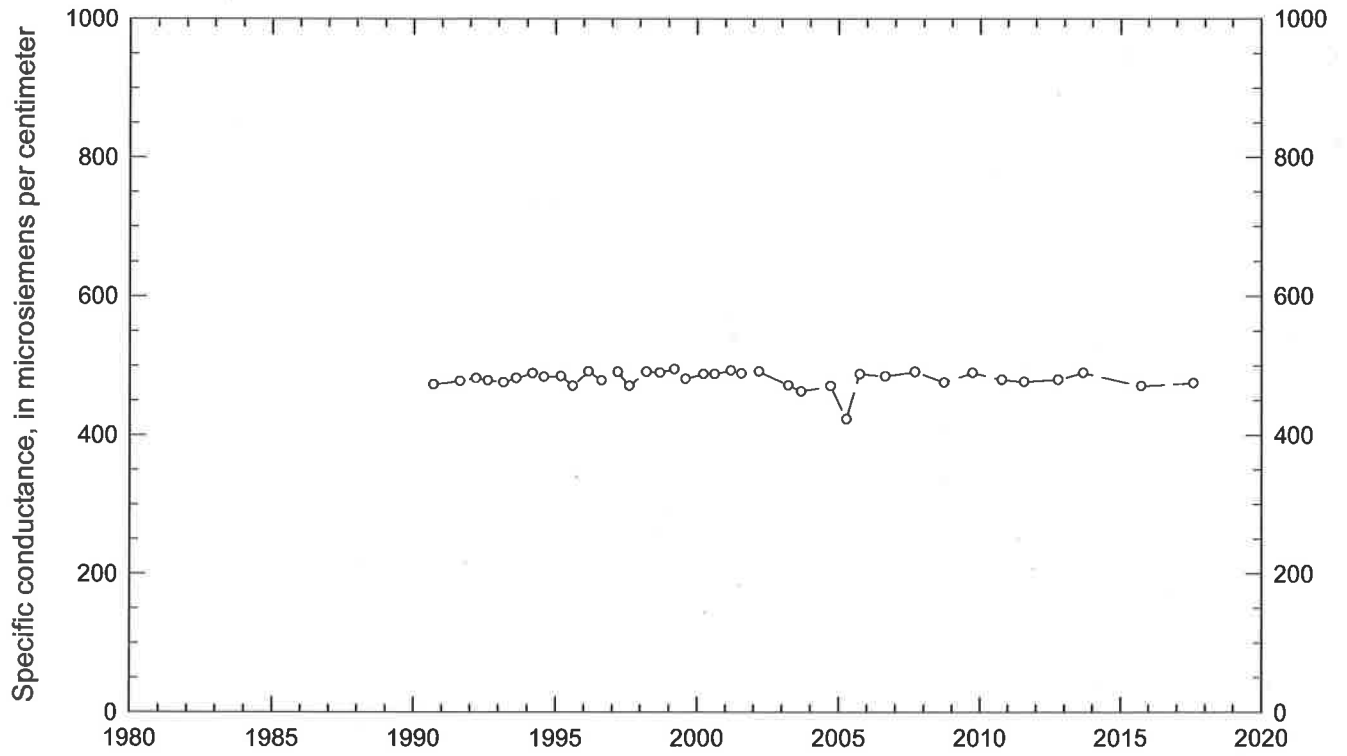
— Lab chloride regression



**QA Fa 67 (Ellison well)**

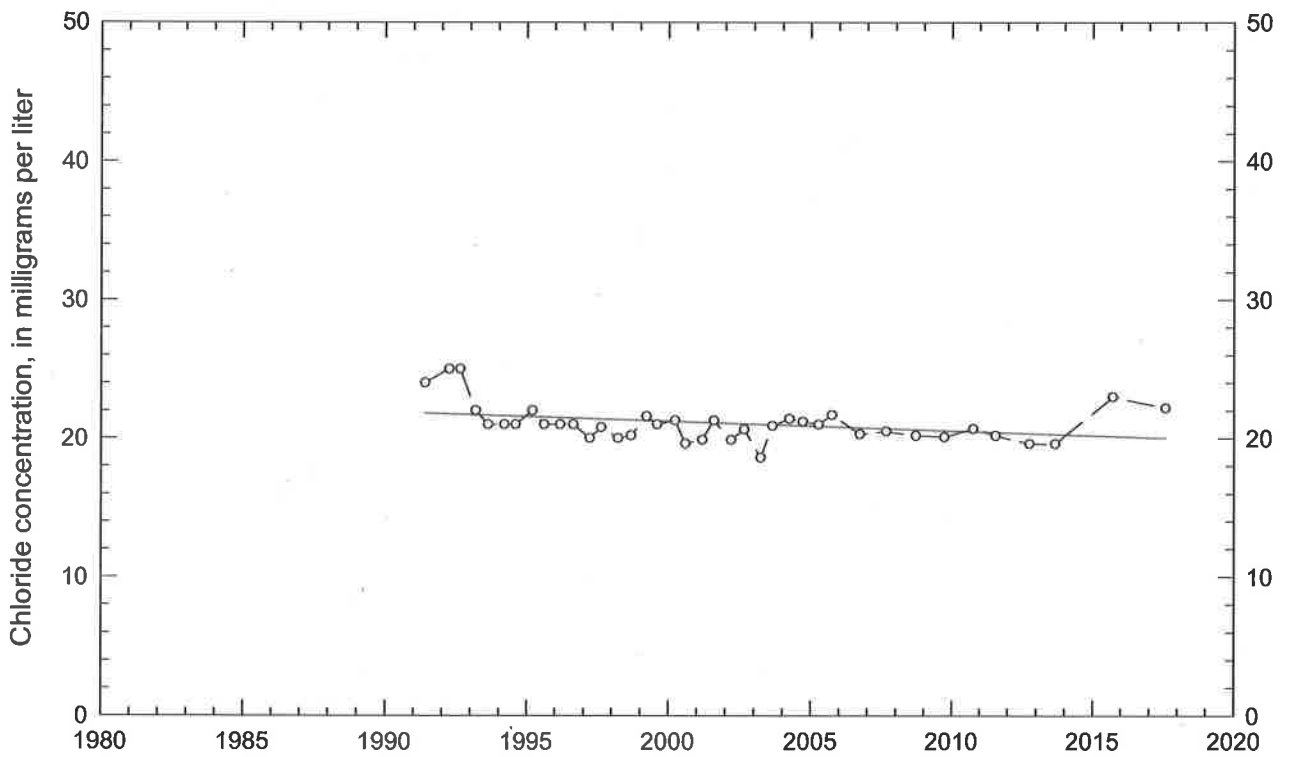
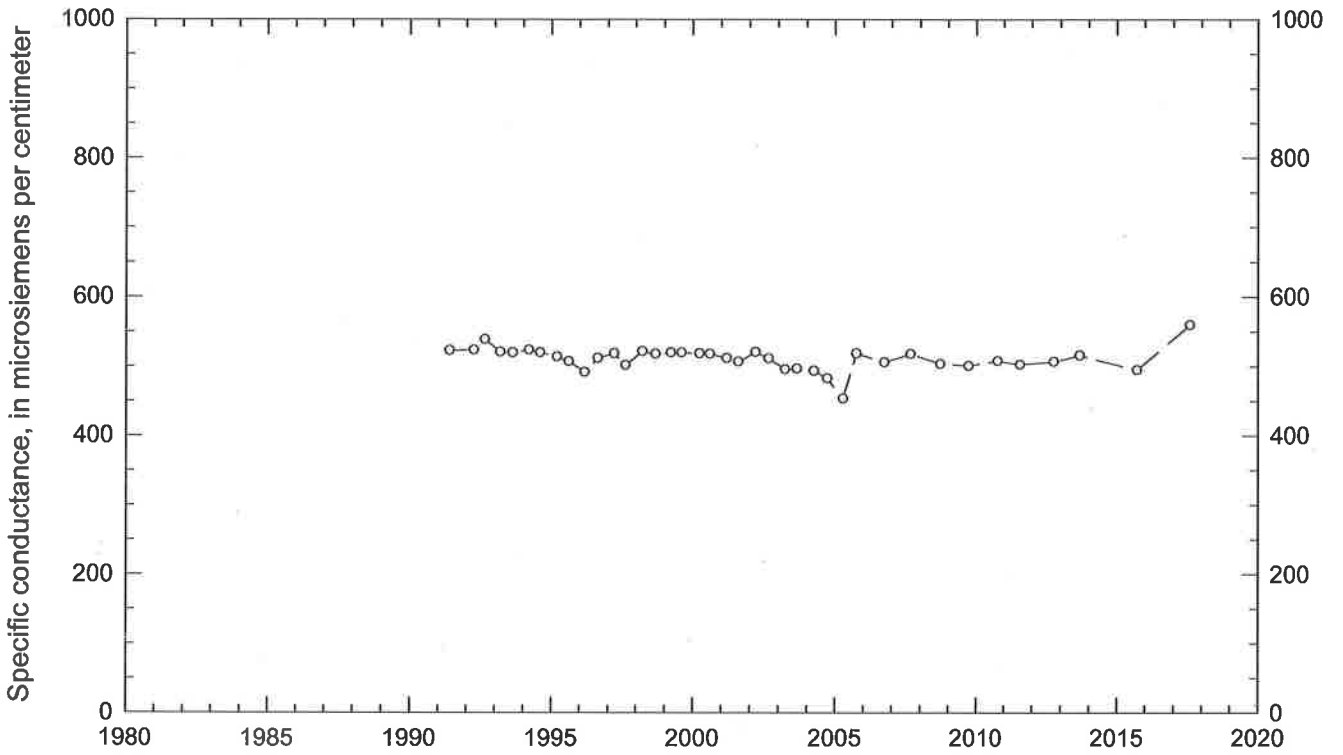
— Lab chloride regression





QA Fa 72

— Lab chloride regression



**QA Fa 75 (Cove Creek Club well)**

— Lab chloride regression



Larry Hogan  
*Governor*

Mark J. Belton  
*Secretary*

Boyd K. Rutherford  
*Lt. Governor*

Joanne Throwe  
*Deputy Secretary*

A message to Maryland's citizens

The Maryland Department of Natural Resources (DNR) seeks to balance the preservation and enhancement of the living and physical resources of the state with prudent extraction and utilization policies that benefit the citizens of Maryland. This publication provides information that will increase your understanding of how DNR strives to reach that goal through the earth science assessments conducted by the Maryland Geological Survey.

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