Table 5. Comparison of water-quality data from index wells obtained during 2001 to 2006 to data obtained during 2007 to 2012.

[Concentrations represent average values; mg/L, milligrams per liter; µg/L, micrograms per liter; mV, millivolts; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; IW, areal assessment index well; shading indicates average measurements that exceed water-quality criteria (sulfate, 250 mg/L; chloride, 250 mg/L; nitrite plus nitrate, 10 mg/L; arsenic, 10 µg/L; iron, 300 mg/L; and manganese, 50 µg/L)]

Site	Sulfate, mg/L		Chloride, mg/L		Nitrite plus nitrate, mg/L as nitrogen		Arsenic, µg/L		Iron, µg/L		Manganese, µg/L		Oxidation reduction potential, mV		Specific conductance, µS/cm at 25 °C	
	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012
IW–01A	17.1	12.9	6.9	2.9	1.03	1.08	0.5	0.4	50	50	79	80	464	436	142	131
IW–01C	5.9	2.5	3.6	2.5	0.29	0.03	14.4	15.7	110	290	240	319	160	115	279	277
IW–02A	39.4	28.4	6.4	8.7	0.91	2.79	0.5	0.4	50	50	5	3	493	410	175	206
IW–02C	10.2	11.3	6.0	5.9	0.06	0.03	1.3	1.1	540	750	116	126	205	161	296	344
IW–03A	33.5	24.0	19.1	4.6	0.05	0.09	3.1	3.7	2,390	2,370	1,250	1,240	199	181	518	447
IW–03C	9.9	6.4	6.2	2.5	0.03	0.05	9.4	9.5	50	80	215	240	199	144	334	339
IW–04A	15.6	18.2	59.6	64.3	0.39	0.42	17.3	12.7	14,700	7,490	617	521	338	243	563	521
IW–04C	18.7	17.3	121	152	0.24	0.07	7.2	7.9	430	610	540	616	180	119	747	846
IW–05A	29.2	24.1	43.8	62.5	4.25	5.36	0.6	0.8	100	50	220	221	442	389	406	466
IW–05C	19.0	19.8	140	188	0.13	0.08	5.5	5.4	900	1,260	683	803	192	199	735	879
IW–06A	47.5	49.7	45.9	54.3	21.3	19.5	1.8	1.0	50	50	15	5	525	414	603	649
IW–06C	9.6	7.4	8.5	3.5	0.49	0.08	6.9	4.3	520	630	271	297	136	125	349	341
IW–07A	15.9	16.2	8.6	5.4	0.04	0.05	12.1	15.4	90	190	351	332	246	170	357	363
IW–07C	40.4	31.0	10.0	6.2	0.02	0.05	12.5	13.3	50	50	285	252	237	195	404	382
IW–08A	368	372	147	189	4.20	2.56	0.6	1.4	180	210	83	61	372	290	1,550	1,690
IW–08C	47.2	49.6	1,270	1,110	0.34	0.43	11.2	11.9	15,100	12,500	1,300	995	143	100	4,360	3,980
IW–09A	106	91.1	16.1	15.9	8.98	5.17	0.6	1.0	50	50	247	278	453	381	569	501
IW–09C	26.4	24.1	38.7	60.5	0.20	0.07	17.4	17.8	80	80	419	480	170	183	523	606
IW–10A	38.6	36.5	53.3	72.5	6.31	9.44	0.6	0.8	50	50	2	3	498	334	490	588
IW–10C	25.9	22.6	17.3	19.9	0.13	0.01	8.7	8.4	800	950	248	252	123	141	358	380
IW–11A–2	7.5	2.9	9.4	4.8	0.15	0.07	11.9	12.8	790	810	308	316	121	113	433	459
IW–11C	17.7	13.3	7.8	6.0	0.01	0.06	12.3	13.5	80	200	227	287	166	150	386	378
IW–12A	72.4	45.0	17.2	6.5	0.22	0.61	7.8	6.1	50	50	113	5	374	323	605	507
IW–12C	229	182	75.6	71.9	0.23	0.16	16.8	17.5	2,050	2,160	1,360	1,230	134	134	1,290	1,170
IW–13A	199	261	132	95.6	0.02	0.09	6.7	6.2	2,140	2,200	166	147	170	146	1,280	1,260
IW–13C	114	161	153	122	0.01	0.08	17.9	16.8	2,080	2,250	501	474	119	120	1,160	1,140
IW–14A	207	121	65.5	30.8	0.01	0.07	4.7	3.6	4,760	1,660	198	166	282	251	851	516
IW–14C	333	428	123	122	0.02	0.08	16.6	17.2	2,120	2,500	1,020	1,030	132	136	1,450	1,610
IW–15A	424	458	70.6	31.2	0.03	0.05	14.5	15.8	7,120	7,810	964	1,060	139	126	1,360	1,310
IW–15C	186	262	77.9	56.0	0.01	0.06	6.9	6.4	50	50	480	538	249	217	940	982
IW–16A	287	459	15.8	39.0	0.01	0.02	5.0	4.9	8,480	14,200	749	1,110	148	120	869	1,270
IW–16C	273	331	18.5	48.7	0.01	0.02	6.2	6.2	4,640	8,160	897	1,240	151	120	850	1,100

Table 5. Comparison of water-quality data from index wells obtained during 2001 to 2006 to data obtained during 2007 to 2012. —Continued

[Concentrations represent average values; mg/L, milligrams per liter; µg/L, micrograms per liter; mV, millivolts; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; IW, areal assessment index well; shading indicates average measurements that exceed water-quality criteria (sulfate, 250 mg/L; chloride, 250 mg/L; nitrite plus nitrate, 10 mg/L; arsenic, 10 µg/L; iron, 300 mg/L; and manganese, 50 µg/L)]

Site	Sulfate, mg/L		Chloride, mg/L		Nitrite plus nitrate, mg/L as nitrogen		Arsenic, µg/L		Iron, µg/L		Manganese, µg/L		Oxidation reduction potential, mV		Specific conductance, µS/cm at 25 °C	
	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012
IW–17A	136	125	9.4	3.4	0.02	0.18	9.5	10.0	1,550	1,340	153	137	174	125	886	874
IW–17C	43.1	43.6	12.3	8.0	0.01	0.06	21.6	21.7	870	990	348	358	88	76	520	529
IW–18A	170	173	146	131	0.08	0.45	0.5	1.1	240	90	18	5	308	263	1,270	1,250
IW–18C	84.5	91.7	116	113	0.12	0.15	2.1	2.0	520	670	263	262	169	146	991	1,010
IW–19A	312	294	151	120	0.01	0.17	4.2	3.7	2,630	2,200	303	262	164	168	1,580	1,540
IW–19C	73.7	69.9	105	94.4	0.01	0.09	2.4	2.3	120	120	525	531	189	207	943	927
IW–20A	720	593	79.7	56.3	0.02	0.06	4.2	4.5	36,980	34,220	950	716	169	148	1,820	1,570
IW–20C	390	432	58.7	52.2	0.03	0.05	13.0	11.9	1,870	3,230	1,210	1,320	133	120	1,250	1,350
IW–21A	289	432	54.1	69.6	0.02	0.08	4.0	1.9	7,980	11,300	426	471	144	159	1,020	1,360
IW–21C	484	633	110	128	0.01	0.07	7.5	6.7	10,500	15,700	1,070	1,220	123	123	1,670	1,990
IW–22A	151	133	24.1	21.5	0.02	0.13	1.6	1.1	150	260	68	89	263	213	881	863
IW–22C	83.1	79.5	20.7	17.1	0.01	0.08	15.2	14.8	920	1,280	453	426	120	120	688	678
IW–23A	75.7	102	15.4	12.1	0.01	0.09	7.3	7.0	1,630	2,150	902	1100	130	98	682	764
IW–23C	52.1	65.1	30.3	25.3	0.01	0.10	15.1	14.0	550	960	498	558	176	121	651	710
IW–24A	67.1	64.7	95.9	81.9	7.31	9.30	0.5	0.8	50	50	2	8	515	363	920	880
IW–24C	76.9	74.9	186	163	0.21	0.20	0.5	0.6	50	50	87	52	462	313	1,150	1,100
IW–25A	89.8	102	55.6	66.6	2.10	3.90	0.5	1.4	50	50	4	3	482	389	882	963
IW–25C	79.7	94.0	103	104	0.05	0.09	0.6	0.8	50	50	63	61	418	321	970	1008
IW–26A	49.6	50.9	10.7	9.1	3.98	4.31	0.5	1.1	50	50	2	3	422	371	677	677
IW–26C	65.7	68.0	91.4	89.8	0.04	0.15	2.5	2.9	50	50	224	235	361	363	907	912
IW–27A	134	122	24.3	19.9	2.35	2.32	0.5	1.0	50	50	2	3	489	426	816	807
IW–27C	59.5	59.6	58.6	52.8	0.11	0.08	1.0	1.0	50	50	178	166	308	316	799	778
IW–28A	246	203	27.7	21.4	1.29	5.79	0.7	2.2	50	50	2	10	431	374	910	912
IW–28C	61.6	55.3	74.1	77.2	0.08	0.17	2.1	2.1	50	50	177	163	359	320	855	861
IW–29A	455	709	26.2	17.8	0.02	0.02	9.8	12.2	4,030	6,080	833	864	143	106	1,510	1,910
IW–29C	173	304	43.4	33.3	0.03	0.21	13.1	13.9	1,770	3,620	556	687	131	137	941	1180
IW–30A	116	114	164	160	11.3	11.3	0.6	0.6	50	50	1	3	529	343	1,160	1,170
IW–30C	259	272	200	198	0.13	0.04	0.6	0.6	50	50	322	306	420	266	1,430	1,500
IW–31A	70.7	51.5	133	88.6	12.4	12.0	0.5	0.5	50	50	2	3	511	333	990	823
IW–31C	102	104	119	114	0.12	0.10	1.4	1.3	50	50	298	279	322	280	996	1,020
IW–32A	82.9	87.2	39.0	63.1	2.63	2.33	0.5	0.8	50	50	16	10	440	336	678	769
IW–32C	51.1	49.9	61.7	57.3	1.71	3.14	0.7	1.1	50	50	55	39	396	330	769	769

Table 5. Comparison of water-quality data from index wells obtained during 2001 to 2006 to data obtained during 2007 to 2012. —Continued

[Concentrations represent average values; mg/L, milligrams per liter; µg/L, micrograms per liter; mV, millivolts; µS/cm at 25 °C, microsiemens per centimeter at 25 degrees Celsius; IW, areal assessment index well; shading indicates average measurements that exceed water-quality criteria (sulfate, 250 mg/L; chloride, 250 mg/L; nitrite plus nitrate, 10 mg/L; arsenic, 10 µg/L; iron, 300 mg/L; and manganese, 50 µg/L)]

Site	Sulfate, mg/L		Chloride, mg/L		Nitrite plus nitrate, mg/L as nitrogen		Arsenic, µg/L		Iron, µg/L		Manganese, µg/L		Oxidation reduction potential, mV		Specific conductance, µS/cm at 25 °C	
	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012	2001–2006	2007–2012
IW–33A	42.5	34.8	6.8	5.0	19.2	18.3	0.5	0.6	50	50	2	3	489	416	562	560
IW–33C	71.2	77.3	61.5	60.7	0.44	0.64	2.3	1.8	50	50	159	154	378	373	822	827
IW–34A	108	73.3	24.0	25.3	0.02	0.04	4.4	2.6	420	370	16	7	221	191	564	546
IW–34C	51.2	48.1	52.2	47.6	0.30	0.84	3.8	3.5	50	50	164	80	373	353	749	735
IW–35A	186	263	423	336	1.04	0.99	0.6	0.7	50	50	541	638	494	336	2,090	1,970
IW–35C	75.2	75.7	275	338	0.06	0.05	1.7	1.9	50	50	20	8	463	320	1,370	1,510
IW–36A	176	126	346	272	15.0	16.1	0.6	0.6	50	50	2	3	520	391	1,850	1,550
IW–36C	104	173	232	381	6.87	7.95	1.0	1.0	50	50	7	3	478	381	1,340	1,970
IW–37A	56.3	74.1	107	139	13.9	14.0	0.5	0.6	50	50	2	3	466	356	976	1,080
IW–37C	46.5	49.7	67.6	77.6	4.60	4.04	0.7	1.2	50	50	326	337	402	333	771	815
IW–38A	210	185	18.5	12.4	0.04	0.15	4.0	4.1	680	820	551	535	241	217	1,020	976
IW–38C	114	116	25.7	19.7	0.05	0.09	0.5	0.5	50	50	304	302	340	278	790	785
Group median	76.3	76.5	54.8	56.1	0.12	0.11	3.4	2.8	95	105	244	257	256	217	853	862
Group average	129	141	90.5	87.5	2.08	2.22	5.6	5.6	1,913	2,059	346	357	294	242	926	953

	Sulfate, water, filtered, milligrams per liter		Chloride, water, filtered, milligrams per liter		Nitrate plus nitrite, water, filtered, milligrams per liter as nitrogen		Arsenic, water, filtered, micrograms per liter		Iron, water, filtered, micrograms per liter		Manganese, water, filtered, micrograms per liter		Oxidation reduction potential, relative to the standard hydrogen electrode (SHE), millivolts		Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius	
	95-05	06-12	95-05	06-12	95-05	06-12	95-05	06-12	95-05	06-12	95-05	06-12	95-05	06-12	95-05	06-12
IW-01A	17.4	13.3	7.5	2.9	1.1	1.0	0.5	0.4	2.5	46.4	78.2	80.0	466	438	146	133
IW-01C	6.4	2.5	3.8	2.5	0.3	0.0	13.6	16.3	97.3	284	230	318	170	111	274	277
IW-02A	41.1	29.9	7.7	7.6	0.9	2.4	0.5	0.4	2.5	44.6	6.2	2.5	512	420	177	195
IW-02C	9.8	11.3	5.7	6.1	0.03	0.04	1.2	1.2	471	739	124	120	214	166	294	327
IW-03A	32.5	26.3	18.6	7.2	0.02	0.11	3.1	3.7	2,410	2,350	1,240	1,260	200	182	511	473
IW-03C	9.8	7.0	6.3	2.9	0.01	0.06	9.4	9.5	40.5	83.6	212	239	205	144	334	338
IW-04A	15.2	18.3	57.7	65.4	0.4	0.4	17.2	13.5	9,830	9,180	587	565	357	234	558	485
IW-04C	18.4	17.7	119	150	0.3	0.1	7.1	7.9	410	598	534	611	188	119	734	819
IW-05A	29.9	24.2	42.6	61.0	4.1	5.4	0.6	0.8	99.7	52.9	219	221	454	391	401	432
IW-05C	19.0	19.7	138	183	0.1	0.1	5.5	5.4	887	1,230	668	800	199	192	713.0	848
IW-06A	46.1	50.9	45.91	53.029	21.2	19.9	0.6	2.4	4.0	46.4	15.9	5.5	522	429	601	645
IW-06C	10.6	6.7	8.7	4.0	0.5	0.2	5.8	5.7	508	623	267	297	139	123	355	344
IW-07A	15.6	16.5	8.7	5.8	0.0	0.1	11.5	15.5	95.8	192	351	334	255	170	359	356
IW-07C	42.2	30.8	10.1	6.6	0.0	0.0	12.4	13.3	44.0	46.4	289	252	244	193	412	378
IW-08A	370	369	146	184	4.3	2.7	0.6	1.3	175	192	86.4	61.1	381	291	1,550	1,610
IW-08C	47.0	49.5	1,280		0.4	0.4	11.2	11.7	15,200	12,700	1,310	1,020	145	102	4,350	4,180
IW-09A	109	90.5	15.5	16.3	8.6	5.6	0.6	1.0	3.0	48.2	258	271	460	382	570	518
IW-09C	26.3	24.3	37.1	59.7	0.2	0.1	17.3	17.9	93.1	80.4	414	477	162	187	530	584
IW-10A	38.3	37.0	52.3	71.0	5.9	9.4	0.6	0.8	6.7	46.9	1.9	2.5	489	370	480	553
IW-10C	25.7	23.2	16.7	20.0	0.1	0.0	8.7	8.5	800	936	248	251	130	134	355	377
IW-11A-2	8.2	2.9	9.6	5.2	0.1	0.2	11.9	12.7	790	776	304	318	121	114	422	459

IW-11C	17.4	14.2	8.0	6.1	0.0	0.1	12.1	13.5	76.4	188	220	286	160	158	388	383
IW-12A	74.1	46.7	18.0	7.0	0.2	0.5	8.1	5.9	43.3	46.43	124	5.5	376	327	767	495
IW-12C	236	181	76.7	71.1	0.1	0.3	16.9	17.2	2,040	2,160	1,360	1,240	131	137	1,290	1,190
IW-13A	200	251	131	101	0.0	0.1	6.7	6.3	2,120	2,210	166	149	158	163	1,260	1,280
IW-13C	116	153	155	125	0.0	0.1	17.7	17.2	2,060	2,240	503	476	116	122	1,160	1,140
IW-14A	210	130	66.4	34.8	0.0	0.1	4.4	4.1	4,890	1,950	198	171	298	240	860	628
IW-14C	328	420	123	123	0.0	0.1	16.7	17.0	2,090	2,480	1,020	1,030	134	134	1,440	1,590
IW-15A	420	456	72.7	34.7	0.0	0.1	14.1	15.9	7,060	7,770	957	1,050	129	138	1,360	1,350
IW-15C	186	251	78.4	58.6	0.0	0.1	6.9	6.4	18.3	46.4	480	530	231	240	932	982
IW-16A	279	441	15.7	35.7	0.0	0.0	5.0	5.0	8,280	13,600	735	1,070	149	122	848	1,170
IW-16C	267	329	18.7	44.2	0.0	0.0	6.1	6.3	4,420	7,870	882	1,210	152	122	826	1,020
IW-17A	139	124	9.6	4.1	0.0	0.2	9.6	9.9	1,560	1,360	157	136	180	126	869	900
IW-17C	41.3	45.2	12.4	8.5	0.0	0.1	21.6	21.7	850	992	348	357	90.0	75.6	513	538
IW-18A	170	172	140	142	0.0	0.4	0.5	1.0	253	110	18.7	5.7	311	266	1,250	1,280
IW-18C	84.1	91.1	116	113	0.0	0.2	2.1	2.1	503	661	263	262	171	146	987	997
IW-19A	317	291	153	123	0.0	0.2	4.3	3.8	2,700	2,190	315	255	162	168	1,590	1,530
IW-19C	72.9	71.2	105.0	95.8	0.0	0.1	2.4	2.3	127	121	525	530	194	199	942	937
IW-20A	728	606	81.7	57.6	0.0	0.1	4.2	4.4	37,000	34,500	968	732	170	149	1,820	1,640
IW-20C	391	425	58.9	52.7	0.0	0.0	13.1	11.9	1,840	3,090	1,210	1,300	133	121	1,220	1,310
IW-21A	280	420	51.9	69.6	0.0	0.1	2.7	3.5	7,800	11,000	425	465	139	162	997	1,230
IW-21C	484	632	110	125	0.0	0.1	7.5	6.8	10,400	15,100	1,070	1,190	118	129	1,630	1,840
IW-22A	152	134	24.6	21.3	0.0	0.1	0.7	2.2	151	256.0	68	86	274	209	882	849
IW-22C	82.7	80.4	20.9	17.4	0.0	0.1	15.8	14.2	899	1,250	458	425	123	117	690	678
IW-23A	72.1	102	15.3	12.7	0.0	0.1	7.5	6.9	1,590	2,110	891	1,080	129	102	657	723
IW-23C	50.4	64.9	30.5	25.8	0.0	0.1	15.2	14.1	511	938	496	551	179	126	652	694
IW-24A	66.5	65.5	97.3	82.2	7.0	9.4	0.5	0.7	2.7	47.2	1.7	7.8	516	376	917	883
IW-24C	76.7	75.3	189	163	0.2	0.2	0.5	0.6	5.7	46.9	90.7	52.9	479	313	1,160	1,120
IW-25A	87.3	103	54.2	66.4	1.9	3.8	0.5	1.3	2.5	46.4	3.7	2.5	506	378	880	913
IW-25C	76.9	96.0	103	104	0.1	0.1	0.6	0.7	3.7	46.4	62.0	63.0	436	314	962	961
IW-26A	48.7	51.6	10.9	9.1	3.9	4.4	0.5	1.0	3.6	46.4	1.6	2.5	465	344	677	657
IW-26C	65.2	68.1	92.1	89.4	0.0	0.1	2.5	2.8	3.5	46.4	226	232	412	329	901	910
IW-27A	135	123	24.5	20.3	1.9	2.7	0.5	0.9	2.5	46.9	1.9	2.5	502	421	819	787
IW-27C	58.8	60.2	58.6	53.6	0.1	0.1	1.2	0.9	5.4	46.9	180	165	316	308	800	786

IW-28A	247	208	28.1	21.8	0.8	5.7	0.7	1.9	2.5	46.4	2.5	9.3	440	372	897	931
IW-28C	60.3	57.5	74.3	76.5	0.1	0.2	2.2	2.1	2.5	46.4	180	162	369	315	856	857
IW-29A	432	702	26.8	18.1	0.0	0.0	9.6	12.2	3,830	6,070	827	869	141	116	1,440	1,870
IW-29C	172	287	43.4	34.7	0.0	0.2	12.9	14.0	1,680	3,450	557	667	126	140	939	1,060
IW-30A	114	120	165	160	11.1	11.5	0.6	0.6	5.4	46.4	1.4	2.5	539	376	1,160	1,170
IW-30C	258	272	199	199	0.1	0.1	0.6	0.6	3.2	46.4	323.0	306.0	447	273	1,400	1,510
IW-31A	68.8	55.6	136	91.2	11.3	13.0	0.5	0.5	2.5	46.9	1.6	2.5	509	353	999	872
IW-31C	102	105	119	114	0.1	0.1	1.4	1.3	4.6	47.2	300	279	331	277	980	1,020
IW-32A	83.6	86.0	38.7	60.0	2.3	2.7	0.5	0.8	4.5	46.4	16.6	10.0	453	335	672	727
IW-32C	50.7	50.5	61.9	57.7	2.0	2.7	0.7	1.0	2.5	46.4	56.6	38.9	408	326	773	761
IW-33A	43.6	34.8	7.4	4.6	19.0	18.6	0.5	0.6	4.3	46.4	1.6	2.5	509	417	566	564
IW-33C	70.0	77.6	61.4	60.8	0.5	0.6	2.3	1.8	7.4	46.4	159	154	391	363	820	825
IW-34A	109	78.0	23.3	25.8	0.0	0.0	4.7	2.6	421	369	17.6	7.3	221	195	552	562
IW-34C	51.3	48.5	52.3	48.1	0.3	0.8	3.8	3.4	2.5	46.4	170	85.4	374	355	751	732
IW-35A	177	264	427	342	1.1	0.9	0.6	0.7	3.9	46.4	541	625	503	345	2,070	2,010
IW-35C	74.9	76.2	271	334	0.1	0.0	1.7	1.9	3.0	53.6	21.5	7.9	471	329	1,350	1,460
IW-36A	180	128	351	276	14.7	16.3	0.6	0.6	3.0	46.4	1.6	2.5	537	389	2,050	1,610
IW-36C	95.9	172	215	377	6.8	7.9	1.0	1.0	2.5	46.4	8.1	2.5	495	377	1,280	1,850
IW-37A	56.7	71.1	107	134	14.1	13.8	0.5	0.6	2.9	46.4	1.6	2.5	487	363	979	1,100
IW-37C	45.9	49.8	67.6	76.1	4.4	4.3	0.8	1.1	2.5	46.4	328	333	409	343	770	796
IW-38A	218	180	16.8	15.0	0.0	0.1	4.0	4.1	658	826	554	534	252	210	1,010	992
IW-38C	114	116	26.0	20.3	0.1	0.1	0.5	0.5	9.9	46.4	306	300	349	276	788	793
Median	**75.8**	**77.8**	**53.3**	**57.6**	**0.1**	**0.1**	**2.9**	**3.1**	**96.6**	**115.5**	**239.0**	**253.5**	**265**	**222**	**852**	**853**
Average	**128.6**	**140.6**	**90.5**	**74.1**	**2.0**	**2.3**	**5.5**	**5.7**	**1,815.0**	**2,058.8**	**345.3**	**355.6**	**300**	**244**	**923**	**945**

Average concentration increased by more than 20% from 1995-2005 period to 2006-2012

Average concentration decreased by more than 20% from 1995-2005 period to 2006-2012

Exceeds water-quality criteria

(Water-quality criteria, Sulfate, 250 mg/L; Chloride, 250 mg/L; Nitrate+nitrite, 10mg/L; Arsenic, 10ug/L; Iron, 300 mg/L; and Manganese, 50ug/L)