

## **Appendix 4. Physical properties and contaminants analyzed in samples collected from domestic wells for the NAWQA Program, 2001–2004, and associated human-health benchmarks for drinking water**

### **Table**

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Property or contaminant	Units	USGS parameter code	CAS number	Predominant use group	Common MRLs and LT-MDLs	Human-health benchmark			Number of analyses	
						Value	Type	Aquifer studies	Agri-cultural land-use studies	Aquifer and agricultural land-use studies
Physical properties										
Temperature	°C	00010	--	--	--	--	--	2,140	428	2,568
Specific conductance	µS/cm at 25°C	00095	--	--	1	--	--	2,138	432	2,570
Dissolved oxygen	mg/L	00300	--	--	0.1	--	--	2,053	431	2,484
pH	Standard units	00400	--	--	--	--	--	2,144	432	2,576
Alkalinity as CaCO <sub>3</sub>	mg/L	--	--	--	1	--	--	2,038	379	2,412
Major ions										
Bromide	mg/L	71870	24959-67-9	--	0.01	--	--	2,058	418	2,476
Calcium	mg/L	00915	7440-70-2	--	0.01–0.02	--	--	2,160	424	2,584
Chloride	mg/L	00940	16887-00-6	--	0.1	--	--	2,157	422	2,579
Fluoride	mg/L	00950	16984-48-8	--	0.1	MCL	4	2,156	422	2,578
Magnesium	mg/L	00925	7439-95-4	--	0.01	--	--	2,160	424	2,584
Potassium	mg/L	00935	7440-70-2	--	0.1	--	--	2,160	424	2,584
Silica	mg/L	00955	7631-86-9	--	0.01	--	--	2,160	424	2,584
Sodium	mg/L	00930	7440-23-5	--	0.2	--	--	2,160	424	2,584
Sulfate	mg/L	00945	14808-79-8	--	0.1	--	--	2,157	422	2,579
Dissolved solids (ROE)	mg/L	70300	--	--	1–10	--	--	2,102	422	2,524
Trace elements										
Aluminum	µg/L	01106	7429-90-5	--	0.8–1	--	--	1,454	98	1,552
Antimony	µg/L	01095	7440-36-0	--	0.05–1	MCL	6	1,552	78	1,630
Arsenic	µg/L	01000	7440-38-2	--	0.2–1	MCL	10	1,774	116	1,890
Barium	µg/L	01005	7440-39-3	--	1	MCL	2,000	1,593	78	1,671
Beryllium	µg/L	01010	7440-41-7	--	0.03–1	MCL	4	1,572	78	1,650
Boron	µg/L	01020	7440-42-8	--	7–16	HBSL	1,000	535	26	561

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Property or contaminant	Units	USGS parameter code	CAS number	Predominant use group	Common MRLs and LT-MDLs	Human-health benchmark			Number of analyses	
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Trace elements—Continued										
Cadmium	µg/L	01025	7440-43-9	--	0.02-1	5	MCL	1,639	78	1,717
Chromium	µg/L	01030	7440-47-3	--	0.4-1	100	MCL	1,614	78	1,692
Cobalt	µg/L	01035	7440-48-4	--	1	--	--	1,572	78	1,650
Copper	µg/L	01040	7440-50-8	--	0.2-1	1,300	Action level	1,619	78	1,697
Iron	µg/L	01046	7439-89-6	--	3-10	--	--	2,157	424	2,581
Lead	µg/L	01049	7439-92-1	--	0.04-1	15	Action level	1,639	78	1,717
Lithium	µg/L	01130	7439-93-2	--	0.3-3	--	--	662	36	698
Manganese	µg/L	01056	7439-96-5	--	0.1-1	300	HBSL	2,159	424	2,583
Molybdenum	µg/L	01060	7439-98-7	--	0.03-1	40	HBSL	1,572	78	1,650
Nickel	µg/L	01065	7440-02-0	--	0.2-1	100	HBSL	1,572	78	1,650
Selenium	µg/L	01145	7782-49-2	--	0.7-1.2	50	MCL	1,625	78	1,703
Silver	µg/L	01075	7440-22-4	--	0.1-1	100	HBSL	1,573	77	1,650
Strontium	µg/L	01080	7440-24-6	--	10	4,000	HBSL	488	82	570
Thallium	µg/L	01057	7440-28-0	--	0.02-0.9	2	MCL	613	36	649
Uranium	µg/L	22703	7440-61-1	--	0.01-1	30	MCL	1,725	190	1,915
Vanadium	µg/L	01085	7440-62-2	--	0.2-1	--	--	662	36	698
Zinc	µg/L	01090	7440-66-6	--	0.5-1	2,000	HBSL	1,594	78	1,672
Nutrients and dissolved organic carbon										
Nitrite as N	mg/L	00613	14797-65-0	--	0.003-0.01	1	MCL	2,141	424	2,565
Nitrate as N	mg/L	00631	14797-55-8	--	0.02-0.05	10	MCL	2,132	424	2,556
Ammonia as N	mg/L	00608	7664-41-7	--	0.02	--	--	2,095	424	2,519
Ammonia plus organic nitrogen as N	mg/L	00623	--	--	0.05-0.2	--	--	2,086	424	2,510
Phosphorus, dissolved as P	mg/L	00666	7723-14-0	--	0.002-0.01	--	--	1,776	399	2,175
Orthophosphate as P	mg/L	00671	14265-44-2	--	0.01	--	--	2,121	419	2,540
Dissolved organic carbon	mg/L	00681	--	--	0.1, 0.3	--	--	1,932	414	2,346

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Property or contaminant	Units	USGS parameter code	CAS number	Predominant use group	Common MRLs and LT-MDLs	Human-health benchmark			Number of analyses	
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Radon and other radionuclides										
Radon	pCi/L	82303	14859-67-7	--	26–80	4,000 and 300	Proposed AMCL and MCL	1,958	323	2,281
Gross alpha-particle radio-activity	pCi/L	04126	12587-46-1	--	3	15	MCL	378	0	378
Gross beta-particle radio-activity	pCi/L	03515	12587-47-2	--	4	50	Screening level	375	0	375
Radium-226 plus radium-228	pCi/L	Various	--	--	--	5	MCL	438	6	444
Pesticides										
Acetochlor	µg/L	49260	34256-82-1	Herbicide (AMD)	0.002, 0.003	<sup>2</sup> 1	HBSL	1,822	224	2,046
Acifluorfen	µg/L	49315	50594-66-6	Herbicide (MCA)	0.007–0.062	90	HBSL	1,372	397	1,769
Alachlor	µg/L	46342	15972-60-8	Herbicide (AMD)	0.001, 0.002	2	MCL	2,115	425	2,540
Aldicarb	µg/L	49312	116-06-3	Insecticide (CAB)	0.016–0.55	9	HBSL	1,374	398	1,772
Aldicarb sulfone	µg/L	49313	1646-88-4	DP (Aldicarb) (CAB)	0.016–0.16	7	HBSL	1,366	392	1,758
Aldicarb sulfoxide	µg/L	49314	1646-87-3	DP (Aldicarb) (CAB)	0.008–0.027	7	HBSL	1,369	392	1,761
Atrazine	µg/L	39632	1912-24-9	Herbicide (TRZ)	0.001, 0.004	3	MCL	2,116	425	2,541
Azinphos-methyl (Guthion)	µg/L	82686	86-50-0	Insecticide (OPH)	0.001, 0.02	10	HBSL	2,115	420	2,535
Benfluralin	µg/L	82673	1861-40-1	Herbicide (DNA)	0.002, 0.005	4	HBSL	2,113	424	2,537
Bentazon	µg/L	38711	25057-89-0	Herbicide (MSC)	0.011–0.019	200	HBSL	1,370	397	1,767
Bromacil	µg/L	04029	314-40-9	Herbicide (URA)	0.033–0.081	70	HBSL	1,379	398	1,777
Bromoxynil	µg/L	49311	1689-84-5	Herbicide (PHN)	0.017–0.057	10	HBSL	1,371	397	1,768
Butylate	µg/L	04028	2008-41-5	Herbicide (CAB)	0.001, 0.002	400	HBSL	2,115	424	2,539
Carbaryl	µg/L	82680	63-25-2	Insecticide (CAB)	0.003, 0.021	<sup>2</sup> 40	HBSL	2,115	425	2,540
Carbofuran	µg/L	82674	1563-66-2	Insecticide (CAB)	0.003, 0.01	40	MCL	2,114	425	2,539
Chloramben methyl ester	µg/L	61188	7286-84-2	Herbicide (MCA)	0.011–0.42	--	--	1,379	398	1,777

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Pesticides—Continued										
Chlorothalonil	µg/L	49306	1897-45-6	Fungicide (OCL)	0.035–0.48	HBSL	1,377	398	1,775	
Chlorpyrifos	µg/L	38933	2921-88-2	Insecticide (OPH)	0.003, 0.004	HBSL	2,113	424	2,537	
Clopyralid	µg/L	49305	1702-17-6	Herbicide (MCA)	0.014–0.23	--	1,376	394	1,770	
Cyanazine	µg/L	04041	21725-46-2	Herbicide (TRZ)	0.004, 0.009	HBSL	2,115	425	2,540	
2,4-D	µg/L	39732	94-75-7	Herbicide (CPA)	0.022–0.15	MCL	1,368	397	1,765	
Dacthal monoacid	µg/L	49304	887-54-7	Herbicide (CBE)	0.012–0.072	--	1,367	395	1,762	
2,4-DB	µg/L	38746	94-82-6	Herbicide (CPA)	0.016–0.24	HBSL	1,377	396	1,773	
DCPA (Dacthal)	µg/L	82682	1861-32-1	Herbicide (CBE)	0.002	HBSL	2,115	424	2,539	
<i>p,p'</i> -DDE	µg/L	34653	72-55-9	DP ( <i>p,p'</i> -DDT) (OCL)	0.001, 0.006	HBSL	2,114	424	2,538	
Deethylatrazine	µg/L	04040	6190-65-4	DP (Atrazine) (TRZ)	0.002, 0.003	--	2,116	425	2,541	
Diazinon	µg/L	39572	333-41-5	Insecticide (OPH)	0.002, 0.003	HBSL	2,115	424	2,539	
Dicamba	µg/L	38442	1918-00-9	Herbicide (MSA)	0.013–0.096	HBSL	1,376	397	1,773	
Dichlobenil	µg/L	49303	1194-65-6	Herbicide (OCL)	0.020, 1.2	HBSL	924	363	1,287	
Dichlorprop	µg/L	49302	120-36-5	Herbicide (CPA)	0.014–0.05	HBSL	1,377	396	1,773	
Dieldrin	µg/L	39381	60-57-1	Insecticide, DP (Aldrin) (OCL)	0.001, 0.002	HBSL	2,115	424	2,539	
2,6-Diethylaniline	µg/L	82660	579-66-8	DP (Alachlor) (AMD)	0.001, 0.003	--	2,115	424	2,539	
Dinoseb	µg/L	49301	88-85-7	Herbicide (NPH)	0.012–0.043	MCL	1,371	397	1,768	
Disulfoton	µg/L	82677	298-04-4	Insecticide (OPH)	0.011, 0.017	HBSL	2,115	424	2,539	
Diuron	µg/L	49300	330-54-1	Herbicide (URA)	0.015–0.079	HBSL	1,374	398	1,772	
DNOC (2-Methyl-4,6-dinitrophenol)	µg/L	49299	534-52-1	Herbicide (NPH)	0.035–0.42	--	919	362	1,281	
EPTC	µg/L	82668	759-94-4	Herbicide (CAB)	0.001, 0.002	HBSL	2,115	424	2,539	

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Agri-cultural land-use studies	Aquifer studies	Agri-cultural land-use studies	Aquifer studies	Agri-cultural land-use studies	Aquifer studies	Agri-cultural land-use studies	Aquifer studies	Agri-cultural land-use studies	Aquifer studies
Pesticides—Continued									
Ethalfuralin	µg/L	82663	55283-68-6	Herbicide (DNA)	0.004, 0.005	HBSL	2,115	424	2,539
Ethoprop (Ethoprophos)	µg/L	82672	13194-48-4	Herbicide (OPH)	0.002, 0.003	HBSL	2,115	425	2,540
Fenuron	µg/L	49297	101-42-8	Fenuron (URA)	0.013–0.074	--	1,371	398	1,769
Fluometuron	µg/L	38811	2164-17-2	Herbicide (URA)	0.031–0.062	HBSL	1,378	398	1,776
Fonofos	µg/L	04095	944-22-9	Insecticide (OPH)	0.001, 0.003	HBSL	2,115	424	2,539
alpha-HCH	µg/L	34253	319-84-6	DP (gamma-HCH) (OCL)	0.002	HBSL	2,115	424	2,539
gamma-HCH (Lindane)	µg/L	39341	58-89-9	Insecticide (OCL)	0.002, 0.004	MCL	2,115	424	2,539
3-Hydroxycarbofuran	µg/L	49308	16655-82-6	DP (Carbofuran) (CAB)	0.006–0.062	--	1,371	398	1,769
Linuron	µg/L	82666	330-55-2	Herbicide (URA)	0.002, 0.018	HBSL	2,115	424	2,539
Malathion	µg/L	39532	121-75-5	Insecticide (OPH)	0.005, 0.014	HBSL	2,115	424	2,539
MCPA	µg/L	38482	94-74-6	Herbicide (CPA)	0.016–0.17	HBSL	1,377	397	1,774
MCPB	µg/L	38487	94-81-5	Herbicide (CPA)	0.015–0.14	HBSL	1,377	396	1,773
Methiocarb	µg/L	38501	2032-65-7	Insecticide (CAB)	0.008–0.08	HBSL	1,378	398	1,776
Methomyl	µg/L	49296	16752-77-5	Insecticide (CAB)	0.004–0.077	HBSL	1,366	392	1,758
Metolachlor	µg/L	39415	51218-45-2	Herbicide (AMD)	0.002, 0.006	HBSL	2,115	425	2,540
Metribuzin	µg/L	82630	21087-64-9	Herbicide (TRZ)	0.003, 0.004	HBSL	2,115	424	2,539
Molinate	µg/L	82671	2212-67-1	Herbicide (CAB)	0.001, 0.004	HBSL	2,115	424	2,539
Napropamide	µg/L	82684	15299-99-7	Herbicide (AMD)	0.003	HBSL	2,115	425	2,540
Neburon	µg/L	49294	555-37-3	Herbicide (URA)	0.012–0.075	--	1,378	398	1,776
Norflurazon	µg/L	49293	27314-13-2	Herbicide (MSC)	0.016–0.078	HBSL	1,378	398	1,776
Oryzalin	µg/L	49292	19044-88-3	Herbicide (DNA)	0.018–0.31	HBSL	1,376	398	1,774
Oxamyl	µg/L	38866	23135-22-0	Insecticide (CAB)	0.012–0.018	MCL	1,365	392	1,757
Parathion (Ethyl parathion)	µg/L	39542	56-38-2	Insecticide (OPH)	0.003–0.005	HBSL	2,115	424	2,539

**Table 4-1.** Physical properties and contaminants analyzed in samples collected from domestic wells for the NAWQA Program, 2001–2004, and associated human-health benchmarks for drinking water.—Continued

[USGS, U.S. Geological Survey; CAS, Chemical Abstract Service. Common method reporting levels (MRLs) and long-term method detection levels (LT-MDLs) are those used for at least about 10 percent of samples. Predominant use group is from Gilliom and others (2006) and Moran and others (2005) and includes compound class for pesticides (AMD, amide; CAB, carbamate; CBE, chlorobenzoic acid esters; CPA, chlorophenoxy acids; DNA, dinitroanilines; MSA, miscellaneous acids; MSC, miscellaneous; NPH, nitrophenols; OCL, organochlorines; OPH, organophosphates; PHN, phenols; PYR, pyrethroids; SFE, sulfate esters; TRZ, triazines, URC, uracils; URA, ureas). Pesticide degradation products are designated by use group "Dp" with parent compound indicated in parentheses. MCL, U.S. Environmental Protection Agency (USEPA) Maximum Contaminant Level for public water supplies; AMCL, USEPA proposed Alternative Maximum Contaminant Level for public water supplies; HBSL, Health-Based Screening Level developed by USGS using USEPA toxicity information and methods (Toccalino and Norman, 2006); °C, degrees Celsius; µS/cm, microsiemens per centimeter; CaCO<sub>3</sub>, calcium carbonate; mg/L, milligrams per liter; ROE, residue on evaporation; µg/L, micrograms per liter; µCi/L, picocuries per liter; CFU/100 mL, colony-forming units per 100 milliliters; -, not available or not applicable]

Property or contaminant	Units	USGS parameter code	CAS number	Predominant use group	Common MRLs and LT-MDLs	Human-health benchmark			Number of analyses	
						Value	Type	Aquifer studies	Agri-cultural land-use studies	Aquifer and agricultural land-use studies
Pesticides—Continued										
Parathion-methyl (Methyl parathion)	µg/L	82667	298-00-0	Insecticide (OPH)	0.003, 0.006	1	HBSL	2,115	424	2,539
Pebulate	µg/L	82669	1114-71-2	Herbicide (CAB)	0.001–0.004	50	HBSL	2,115	424	2,539
Pendimethalin	µg/L	82683	40487-42-1	Herbicide (DNA)	0.004–0.011	70	HBSL	2,115	424	2,539
<i>cis</i> -Permethrin	µg/L	82687	54774-45-7	Insecticide (PYR)	0.003, 0.005	24	HBSL	2,115	424	2,539
Phorate	µg/L	82664	298-02-2	Insecticide (OPH)	0.002, 0.006	4	HBSL	2,115	424	2,539
Picloram	µg/L	49291	1918-02-1	Herbicide (MSA)	0.02–0.071	500	MCL	1,361	387	1,748
Prometon	µg/L	04037	1610-18-0	Herbicide (TRZ)	0.007, 0.018	400	HBSL	2,115	425	2,540
Pronamide (Propyzamide)	µg/L	82676	23950-58-5	Herbicide (AMD)	0.002, 0.003	21	HBSL	2,115	425	2,540
Propachlor	µg/L	04024	1918-16-7	Herbicide (AMD)	0.005, 0.007	21	HBSL	2,115	425	2,540
Propanil	µg/L	82679	709-98-8	Herbicide (AMD)	0.004, 0.005	6	HBSL	2,115	425	2,540
Propargite	µg/L	82685	2312-35-8	Acaricide (SFE)	0.011, 0.013	21	HBSL	2,107	424	2,531
Propham	µg/L	49236	122-42-9	Herbicide (CAB)	0.01–0.0072	100	HBSL	1,378	398	1,776
Propoxur (Baygon)	µg/L	38538	114-26-1	Insecticide (CAB)	0.008–0.06	29	HBSL	1,369	398	1,767
Simazine	µg/L	04035	122-34-9	Herbicide (TRZ)	0.002–0.006	4	MCL	2,114	425	2,539
2,4,5-T	µg/L	39742	93-76-5	Herbicide (CPA)	0.035	70	HBSL	919	361	1,280
Tebuthiuron	µg/L	82670	34014-18-1	Herbicide (URA)	0.008, 0.01	1,000	HBSL	2,116	425	2,541
Terbacil	µg/L	82665	5902-51-2	Herbicide (URC)	0.007, 0.017	90	HBSL	2,108	420	2,528
Terbufos	µg/L	82675	13071-79-9	Insecticide (OPH)	0.009, 0.013	0.4	HBSL	2,115	424	2,539
Thiobencarb	µg/L	82681	28249-77-6	Herbicide (CAB)	0.002	70	HBSL	2,115	424	2,539
2,4,5-TP (Silvex)	µg/L	39762	93-72-1	Herbicide (CPA)	0.021	50	MCL	920	362	1,282
Triallate	µg/L	82678	2303-17-5	Herbicide (CAB)	0.001	20	HBSL	2,115	424	2,539
Triclopyr	µg/L	49235	55335-06-3	Herbicide (OCL)	0.022–0.25	400	HBSL	1,372	397	1,769
Trifluralin	µg/L	82661	1582-09-8	Herbicide (DNA)	0.002, 0.005	20	HBSL	2,115	424	2,539

**Table 4-1.** Physical properties and contaminants analyzed in samples collected from domestic wells for the NAWQA Program, 2001–2004, and associated human-health benchmarks for drinking water.—Continued

[USGS, U.S. Geological Survey; CAS, Chemical Abstract Service. Common method reporting levels (MRLs) and long-term method detection levels (LT-MDLs) are those used for at least about 10 percent of samples. Predominant use group is from Gilliom and others (2006) and Moran and others (2005) and includes compound class for pesticides (AMD, amide; CAB, carbamate; CBE, chlorobenzoic acid esters; CPA, chlorophenoxy acids; DNA, dinitroanilines; MSA, miscellaneous acids; MSC, miscellaneous; NPH, nitrophenols; OCL, organochlorines; OPH, organophosphates; PHN, phenols; PYR, pyrethroids; SFE, sulfate esters; TRZ, triazines, URC, uracils; URA, ureas). Pesticide degradation products are designated by use group "Dp" with parent compound indicated in parentheses. MCL, U.S. Environmental Protection Agency (USEPA) Maximum Contaminant Level for public water supplies; AMCL, USEPA proposed Alternative Maximum Contaminant Level for public water supplies; HBSL, Health-Based Screening Level developed by USGS using USEPA toxicity information and methods (Toccalino and Norman, 2006); °C, degrees Celsius; µS/cm, microsiemens per centimeter; CaCO<sub>3</sub>, calcium carbonate; mg/L, milligrams per liter; ROE, residue on evaporation; µg/L, micrograms per liter; µCi/L, picocuries per liter; CFU/100 mL, colony-forming units per 100 milliliters; --, not available or not applicable]

Property or contaminant	Units	USGS parameter code	CAS number	Predominant use group	Common MRLs and LT-MDLs	Human-health benchmark			Number of analyses	
						Value	Type	Aquifer studies		
Volatile organic compounds										
Acetone	µg/L	81552	67-64-1	Solvent	2–5	6,000	HBSL	1,536	37	1,573
Acrylonitrile	µg/L	34215	107-13-1	Organic synthesis	0.6–2	±0.06	HBSL	1,537	37	1,574
<i>tert</i> -Amyl methyl ether (Methyl <i>tert</i> -pentyl ether)	µg/L	50005	994-05-8	Gasoline oxygenate	0.04–0.112	--	--	1,537	37	1,574
Benzene	µg/L	34030	71-43-2	Gasoline hydrocarbon	0.017–0.2	5	MCL	1,957	313	2,270
Bromobenzene	µg/L	81555	108-86-1	Solvent	0.018–0.2	--	--	1,956	313	2,269
Bromochloromethane	µg/L	77297	74-97-5	Personal care and domestic use product	0.022–0.2	90	HBSL	1,956	312	2,268
Bromodichloromethane	µg/L	32101	75-27-4	Trihalomethane	0.024–0.2	380	MCL	1,956	313	2,269
Bromoform (Tribromomethane)	µg/L	32104	75-25-2	Trihalomethane	0.03–0.2	380	MCL	1,955	313	2,268
Bromomethane	µg/L	34413	74-83-9	Fumigant	0.074–0.2	100	HBSL	1,956	313	2,269
<i>n</i> -Butylbenzene	µg/L	77342	104-51-8	Gasoline hydrocarbon	0.05–0.2	--	--	1,956	313	2,269
<i>sec</i> -Butylbenzene	µg/L	77350	135-98-8	Gasoline hydrocarbon	0.016–0.2	--	--	1,956	313	2,269
<i>tert</i> -Butylbenzene	µg/L	77353	98-06-6	Gasoline hydrocarbon	0.03–0.2	--	--	1,956	313	2,269
Carbon disulfide	µg/L	77041	75-15-0	Organic synthesis	0.013–0.18	700	HBSL	1,536	37	1,573
Carbon tetrachloride (Tetrachloromethane)	µg/L	32102	56-23-5	Solvent	0.03–0.2	5	MCL	1,956	313	2,269
Chlorobenzene (Monochlorobenzene)	µg/L	34301	108-90-7	Solvent	0.014–0.2	100	MCL	1,957	313	2,270
Chloroethane	µg/L	34311	75-00-3	Solvent	0.06–0.2	--	--	1,955	313	2,268



**Table 4-1. Physical properties and contaminants analyzed in samples collected from domestic wells for the NAWQA Program, 2001–2004, and associated human-health benchmarks for drinking water.—Continued**

[USGS, U.S. Geological Survey; CAS, Chemical Abstract Service. Common method reporting levels (MRLs) and long-term method detection levels (LT-MDLs) are those used for at least about 10 percent of samples. Predominant use group is from Gilliom and others (2006) and Moran and others (2005) and includes compound class for pesticides (AMD, amide; CAB, carbamate; CBE, chlorobenzoic acid esters; CPA, chlorophenoxy acids; DNA, dinitroanilines; MSA, miscellaneous acids; MSC, miscellaneous; NPH, nitrophenols; OCL, organochlorines; OPH, organophosphates; PHN, phenols; PYR, pyrethroids; SFE, sulfite esters; TRZ, triazines, URC, uracils; URA, ureas). Pesticide degradation products are designated by use group “Dp” with parent compound indicated in parentheses. MCL, U.S. Environmental Protection Agency (USEPA) Maximum Contaminant Level for public water supplies; AMCL, USEPA proposed Alternative Maximum Contaminant Level for public water supplies; HBSL, Health-Based Screening Level developed by USGS using USEPA toxicity information and methods (Toccalino and Norman, 2006); °C, degrees Celsius; µS/cm, microsiemens per centimeter; CaCO<sub>3</sub>, calcium carbonate; mg/L, milligrams per liter; ROE, residue on evaporation; µg/L, micrograms per liter; µCi/L, picocuries per liter; CFU/100 mL, colony-forming units per 100 milliliters; --, not available or not applicable]

Property or contaminant	Units	USGS parameter code	CAS number	Predominant use group	Common MRLs and LT-MDLs	Human-health benchmark			Number of analyses	
						Value	Type	Aquifer studies		
Volatile organic compounds—Continued										
Chloroform (Trichloromethane)	µg/L	32106	67-66-3	Trihalomethane	0.012–0.2	380	MCL	1,956	313	2,269
Chloromethane	µg/L	34418	74-87-3	Organic synthesis	0.09–0.25	30	HBSL	1,901	256	2,157
3-Chloropropene	µg/L	78109	107-05-1	Organic synthesis	0.03–0.196	--	--	1,537	37	1,574
2-Chlorotoluene (o-)	µg/L	77275	95-49-8	Solvent	0.013–0.2	100	HBSL	1,956	313	2,269
4-Chlorotoluene (p-)	µg/L	77277	106-43-4	Solvent	0.03–0.2	100	HBSL	1,956	313	2,269
Dibromochloromethane	µg/L	32105	124-48-1	Trihalomethane	0.05–0.2	380	MCL	1,956	313	2,269
Dibromochloropropane (DBCP)	µg/L	82625	96-12-8	Fumigant	0.107–1.0	0.2	MCL	1,956	313	2,269
Dibromomethane	µg/L	30217	74-95-3	Solvent	0.025–0.2	--	--	1,956	313	2,269
1,2-Dichlorobenzene (o-)	µg/L	34536	95-50-1	Solvent	0.024–0.2	600	MCL	1,957	313	2,270
1,3-Dichlorobenzene (m-)	µg/L	34566	541-73-1	Solvent	0.015–0.2	600	HBSL	1,957	313	2,270
1,4-Dichlorobenzene (p-)	µg/L	34571	106-46-7	Fumigant	0.025–0.2	75	MCL	1,957	313	2,270
trans-1,4-Dichloro-2-butene	µg/L	73547	110-57-6	Organic synthesis	0.346–5	--	--	1,537	37	1,574
Dichlorodifluoromethane	µg/L	34668	75-71-8	Refrigerant	0.07–0.2	1,000	HBSL	1,957	313	2,270
1,1-Dichloroethane	µg/L	34496	75-34-3	Solvent	0.033–0.2	--	--	1,956	313	2,269
1,2-Dichloroethane	µg/L	32103	107-06-2	Solvent	0.05–0.2	5	MCL	1,945	312	2,257
1,1-Dichloroethene	µg/L	34501	75-35-4	Solvent	0.02–0.2	7	MCL	1,956	313	2,269
cis-1,2-Dichloroethene	µg/L	77093	156-59-2	Solvent	0.019–0.2	70	MCL	1,956	313	2,269
trans-1,2-Dichloroethene	µg/L	34546	156-60-5	Solvent	0.016–0.2	100	MCL	1,956	313	2,269
1,2-Dichloropropane	µg/L	34541	78-87-5	Fumigant	0.014–0.2	5	MCL	1,956	313	2,269
1,3-Dichloropropane	µg/L	77173	142-28-9	Fumigant	0.013–0.2	--	--	1,956	313	2,269
2,2-Dichloropropane	µg/L	77170	594-20-7	Fumigant	0.02–0.2	--	--	1,955	313	2,268
1,1-Dichloropropene	µg/L	77168	563-58-6	Organic synthesis	0.018–0.2	--	--	1,955	313	2,268
cis-1,3-Dichloropropene	µg/L	34704	10061-01-5	Fumigant	0.046–0.2	2 <sup>a</sup> 0.3	HBSL	1,956	313	2,269

**Table 4-1.** Physical properties and contaminants analyzed in samples collected from the NAWQA Program, 2001–2004, and associated human-health benchmarks for drinking water.—Continued

[USGS, U.S. Geological Survey; CAS, Chemical Abstract Service. Common method reporting levels (MRLs) and long-term method detection levels (LT-MDLs) are those used for at least about 10 percent of samples. Predominant use group is from Gilliom and others (2006) and Moran and others (2005) and includes compound class for pesticides (AMD, amide; CAB, carbamate; CBE, chlorobenzoic acid esters; CPA, chlorophenoxy acids; DNA, dinitroanilines; MSA, miscellaneous acids; MSC, miscellaneous; NPH, nitrophenols; OCL, organochlorines; OPH, organophosphates; PHN, phenols; PYR, pyrethroids; SFE, sulfate esters; TRZ, triazines, URC, uracils; URA, ureas). Pesticide degradation products are designated by use group "Dp" with parent compound indicated in parentheses. MCL, U.S. Environmental Protection Agency (USEPA) Maximum Contaminant Level for public water supplies; AMCL, USEPA proposed Alternative Maximum Contaminant Level for public water supplies; HBSL, Health-Based Screening Level developed by USGS using USEPA toxicity information and methods (Toccalino and Norman, 2006); °C, degrees Celsius; µS/cm, microsiemens per centimeter; CaCO<sub>3</sub>, calcium carbonate; mg/L, milligrams per liter; ROE, residue on evaporation; µg/L, micrograms per liter; µCi/L, picocuries per liter; CFU/100 mL, colony-forming units per 100 milliliters; --, not available or not applicable]

Property or contaminant	Units	USGS parameter code	CAS number	Predominant use group	Common MRLs and LT-MDLs	Human-health benchmark			Number of analyses	
						Value	Type	Aquifer studies	Agri-cultural land-use studies	Aquifer and agricultural land-use studies
Volatile organic compounds—Continued										
<i>trans</i> -1,3-Dichloropropene	µg/L	34699	10061-02-6	Fumigant	0.04–0.2	<sup>2</sup> 40.3	HBSL	1,955	313	2,268
Diethyl ether	µg/L	81576	60-29-7	Solvent	0.085–0.17	1000	HBSL	1,537	37	1,574
Diisopropyl ether	µg/L	81577	108-20-3	Gasoline oxygenate	0.05–0.1	--	--	1,427	37	1,464
Ethyl methacrylate	µg/L	73570	97-63-2	Organic synthesis	0.09–1	--	--	1,536	37	1,573
Ethyl <i>tert</i> -butyl ether ( <i>tert</i> -Butyl ethyl ether)	µg/L	50004	637-92-3	Gasoline oxygenate	0.027–0.1	--	--	1,537	37	1,574
Ethylbenzene	µg/L	34371	100-41-4	Gasoline hydro-carbon	0.015–0.2	700	MCL	1,957	313	2,270
Ethylene dibromide (1,2-Dibromoethane)	µg/L	77651	106-93-4	Fumigant	0.018–0.2	0.05	MCL	1,955	313	2,268
2-Ethyltoluene	µg/L	77220	611-14-3	Gasoline hydro-carbon	0.03–0.1	--	--	1,537	37	1,574
Hexachlorobutadiene	µg/L	39702	87-68-3	Organic synthesis	0.07–0.2	<sup>2</sup> 0.9	HBSL	1,956	313	2,269
Hexachloroethane	µg/L	34396	67-72-1	Solvent	0.05–0.362	0.7	HBSL	1,537	37	1,574
Iodomethane	µg/L	77424	74-88-4	Organic synthesis	0.05–0.350	--	--	1,537	37	1,574
Isopropylbenzene	µg/L	77223	98-82-8	Gasoline hydro-carbon	0.016–0.2	700	HBSL	1,956	313	2,269
<i>n</i> -Isopropyltoluene (4-Isopropyltoluene)	µg/L	77356	99-87-6	Gasoline hydro-carbon	0.03–0.2	--	--	1,956	313	2,269
Methyl acrylate	µg/L	49991	96-33-3	Organic synthesis	0.612–2	--	--	1,537	37	1,574
Methyl acrylonitrile (Methacrylonitrile)	µg/L	81593	126-98-7	Organic synthesis	0.3–2	0.7	HBSL	1,537	37	1,574
Methyl butyl ketone ( <i>n</i> -Butyl methyl ketone)	µg/L	77103	591-78-6	Solvent	0.378–5	--	--	1,537	37	1,574
Methyl ethyl ketone (Ethyl methyl ketone)	µg/L	81595	78-93-3	Solvent	0.825–5	4,000	HBSL	1,537	37	1,574

**Table 4-1. Physical properties and contaminants analyzed in samples collected from domestic wells for the NAWQA Program, 2001–2004, and associated human-health benchmarks for drinking water.—Continued**

[USGS, U.S. Geological Survey; CAS, Chemical Abstract Service. Common method reporting levels (MRLs) and long-term method detection levels (LT-MDLs) are those used for at least about 10 percent of samples. Predominant use group is from Gilliom and others (2006) and Moran and others (2005) and includes compound class for pesticides (AMD, amide; CAB, carbamate; CBE, chlorobenzoic acid esters; CPA, chlorophenoxy acids; DNA, dinitroanilines; MSA, miscellaneous acids; MSC, miscellaneous; NPH, nitrophenols; OCL, organochlorines; OPH, organophosphates; PHN, phenols; PYR, pyrethroids; SFE, sulfite esters; TRZ, triazines, URC, uracils; URA, ureas). Pesticide degradation products are designated by use group "Dp" with parent compound indicated in parentheses. MCL, U.S. Environmental Protection Agency (USEPA) Maximum Contaminant Level for public water supplies; AMCL, USEPA proposed Alternative Maximum Contaminant Level for public water supplies; HBSL, Health-Based Screening Level developed by USGS using USEPA toxicity information and methods (Toccalino and Norman, 2006); °C, degrees Celsius; µS/cm, microsiemens per centimeter; CaCO<sub>3</sub>, calcium carbonate; mg/L, milligrams per liter; ROE, residue on evaporation; µg/L, micrograms per liter; pCi/L, picocuries per liter; CFU/100 mL, colony-forming units per 100 milliliters; --, not available or not applicable]

Property or contaminant	Units	USGS parameter code	CAS number	Predominant use group	Common MRLs and LT-MDLs	Human-health benchmark			Number of analyses	
						Value	Type	Aquifer studies	Agri-cultural land-use studies	Aquifer and agricultural land-use studies
Volatile organic compounds—Continued										
Methyl isobutyl ketone (Isobutyl methyl ketone)	µg/L	78133	108-10-1	Solvent	0.180–5	--	--	1,537	37	1,574
Methyl methacrylate	µg/L	81597	80-62-6	Organic synthesis	0.175–1	10,000	HBSL	1,537	37	1,574
Methyl <i>tert</i> -butyl ether	µg/L	78032	1634-04-4	Gasoline oxygenate	0.08–0.2	--	--	1,956	312	2,268
Methylene chloride (Dichloromethane)	µg/L	34423	75-09-2	Solvent	0.08–0.38	5	MCL	1,956	313	2,269
Naphthalene	µg/L	34696	91-20-3	Gasoline hydro-carbon	0.125–0.5	100	HBSL	1,956	313	2,269
Perchloroethene (Tetrachloroethene)	µg/L	34475	127-18-4	Solvent	0.013–0.2	5	MCL	1,927	313	2,240
<i>n</i> -Propylbenzene	µg/L	77224	103-65-1	Solvent	0.021–0.2	--	--	1,956	313	2,269
Styrene	µg/L	77128	100-42-5	Gasoline hydro-carbon	0.021–0.2	100	MCL	1,951	313	2,264
1,1,1,2-Tetrachloroethane	µg/L	77562	630-20-6	Solvent	0.015–0.2	70	HBSL	1,955	313	2,268
1,1,2,2-Tetrachloroethane	µg/L	34516	79-34-5	Solvent	0.04–0.2	0.3	HBSL	1,956	313	2,269
Tetrahydrofuran	µg/L	81607	109-99-9	Solvent	1.1–5	--	--	1,536	37	1,573
1,2,3,4-Tetramethylbenzene	µg/L	49999	488-23-3	Gasoline hydro-carbon	0.05–0.23	--	--	1,537	37	1,574
1,2,3,5-Tetramethylbenzene	µg/L	50000	527-53-7	Gasoline hydro-carbon	0.05–0.24	--	--	1,537	37	1,574
Toluene	µg/L	34010	108-88-3	Gasoline hydro-carbon	0.03–0.2	1,000	MCL	1,891	313	2,204
1,2,3-Trichlorobenzene	µg/L	77613	87-61-6	Organic synthesis	0.133–0.266	--	--	1,956	313	2,269
1,2,4-Trichlorobenzene	µg/L	34551	120-82-1	Solvent	0.09–0.2	70	MCL	1,956	313	2,269
1,1,1-Trichloroethane	µg/L	34506	71-55-6	Solvent	0.016–0.2	200	MCL	1,957	313	2,270
1,1,2-Trichloroethane	µg/L	34511	79-00-5	Solvent	0.03–0.2	5	MCL	1,956	313	2,269
Trichloroethene	µg/L	39180	79-01-6	Solvent	0.019–0.2	5	MCL	1,956	313	2,269

**Table 4-1.** Physical properties and contaminants analyzed in samples collected from domestic wells for the NAWQA Program, 2001–2004, and associated human-health benchmarks for drinking water.—Continued

Property or contaminant	Units	USGS parameter code	CAS number	Predominant use group	Common MRLs and LT-MDLs	Human-health benchmark			Agri-cultural land-use studies	Aquifer studies	Agri-cultural land-use studies
						Value	Type	Number of analyses			
Volatile organic compounds—Continued											
Trichlorofluoromethane	µg/L	34488	75-69-4	Refrigerant	0.046–0.2	2,000	HBSL	1,957	313	2,270	
1,2,3-Trichloropropane	µg/L	77443	96-18-4	Organic synthesis	0.08–0.2	40	HBSL	1,956	313	2,269	
Trichlorotrifluoroethane (1,1,2-Trichloro-1,2,2-trifluoroethane)	µg/L	77652	76-13-1	Refrigerant	0.016–0.2	200,000	HBSL	1,955	313	2,268	
1,2,3-Trimethylbenzene	µg/L	77221	526-73-8	Gasoline hydro-carbon	0.05–0.124	--	--	1,537	37	1,574	
1,2,4-Trimethylbenzene	µg/L	77222	95-63-6	Gasoline hydro-carbon	0.028–0.2	--	--	1,913	306	2,219	
1,3,5-Trimethylbenzene	µg/L	77226	108-67-8	Gasoline hydro-carbon	0.022–0.2	--	--	1,956	313	2,269	
Vinyl bromide (Bromoethene)	µg/L	50002	593-60-2	Organic synthesis	0.050–0.11	--	--	1,537	37	1,574	
Vinyl chloride	µg/L	39175	75-01-4	Organic synthesis	0.056–0.2	2	MCL	1,957	313	2,270	
<i>o</i> -Xylene	µg/L	77135	95-47-6	Gasoline hydro-carbon	0.019–0.064	<sup>5</sup> 10,000	MCL	1,536	37	1,573	
<i>m</i> - and <i>p</i> -Xylenes	µg/L	85795	108-38-3 and 106-42-3	Gasoline hydro-carbon	0.0300–0.11	<sup>5</sup> 10,000	MCL	1,530	37	1,567	
Fecal indicator bacteria											
Total coliform, all methods	CFU/100 mL	Various	--	--	--	See text	--	397	86	483	
<i>Escherichia coli</i> , all methods	CFU/100 mL	Various	--	--	--	See text	--	378	55	433	
Summary											
Total number of analytes	--	--	--	--	--	--	--	219	219	219	
Total number of analyses	--	--	--	--	--	--	--	373,578	63,189	436,767	

<sup>1</sup>CAS number is for nitrate plus nitrite; see text for additional information.<sup>2</sup>Value is low end of range, associated with 10<sup>6</sup> cancer risk (Toccalino and others, 2006).<sup>3</sup>MCL is for sum of four trihalomethanes.<sup>4</sup>HBSL is for sum of *cis*-1,3-dichloropropene and *trans*-1,3-dichloropropene.<sup>5</sup>MCL is for sum of xylenes.