

Appendix 4—Routine Sampling Data

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Appendix 4.1. Major ion concentrations in routine samples, Barton Springs, Austin, Texas (2003–05).

[USGS, U.S. Geological Survey; $\mu\text{S}/\text{cm}$, microsiemens per centimeter at 25 degrees Celsius; mg/L , milligrams per liter; CaCO_3 , calcium carbonate; $\mu\text{g}/\text{L}$, micrograms per liter; -- not sampled or not analyzed; E, estimated]

USGS site identifier	Site name	Sample date	pH, unfiltered, field, (standard units)	Specific conductance, unfiltered ($\mu\text{S}/\text{cm}$)	Calcium, filtered (mg/L)	Magnesium, filtered (mg/L)	Sodium, filtered (mg/L)	Potassium, filtered (mg/L)	Alkalinity, filtered, incremental titration, field (mg/L as CaCO_3)	Chloride, filtered (mg/L)	Sulfate, filtered (mg/L)	Strontium, filtered ($\mu\text{g}/\text{L}$)	Silica, filtered (mg/L)	
08155395	Upper Spring	08/06/03	6.9	640	91.2	21.1	10.8	1.24	289	18.9	27.2	462	13	
		08/20/03	7.1	638	94.8	24.2	10.2	1.11	285	18.7	27.1	520	13.1	
		09/03/03	7	638	90.6	23.1	9.25	1.17	285	17.9	26.1	507	12.5	
		09/16/03	7	562	92.5	18.6	8.33	1.88	259	13.7	18.8	383	11.6	
		09/30/03	7.1	653	92.7	24.1	10.3	1.18	285	18.5	26.4	496	12.3	
		06/21/04	7	625	95.9	21.5	10.4	1.31	280	18.6	25.2	324	12.8	
		07/07/04	7	637	92.7	20.2	11	1.28	263	19.9	25.9	249	12.4	
		07/21/04	6.9	646	96.6	22.7	10.4	1.27	253	20.3	27.4	349	12.5	
		08/04/04	7	648	92.9	23.1	10.9	1.35	239	19.8	27.9	392	12.2	
		08/25/04	6.8	605	94.4	24	11	1.27	288	18.4	27.3	449	12.3	
		09/15/04	6.6	625	--	--	--	--	--	--	--	--	--	--
		10/04/04	7	629	--	--	--	--	--	--	--	--	--	--
		11/05/04	7.1	625	101	20.2	9.05	1.55	276	15	22.6	324	12.4	
		12/14/04	7	657	102	22.2	10.1	1.36	281	17.4	23.6	283	13.4	
		01/03/05	6.7	662	95.4	22.7	10.8	1.24	277	18.4	27	362	12.9	
		01/26/05	6.9	656	99.7	24.4	12	1.36	E303	18.4	28.9	437	12.9	
		02/16/05	6.7	647	99.1	23.2	10.4	1.2	286	18.7	28.8	425	12.6	
		03/09/05	6.7	660	104	21.8	10.8	1.32	280	17.4	27.9	373	12.9	
		03/30/05	6.7	654	100	23.5	10.7	1.22	288	18.5	28.4	422	13.3	
		04/20/05	6.7	655	104	24	11.2	1.29	289	18.5	26.9	475	13	
05/11/05	6.6	637	93.4	22.4	10.1	1.35	282	16.8	26.1	431	13			
06/09/05	6.8	655	93.8	24.6	10.3	1.32	290	17.7	27.3	449	13.7			
08155500	Main Spring	08/06/03	6.9	636	84.5	18.4	14.5	1.3	274	25.7	27.7	812	11.7	
		08/20/03	7.1	643	89.3	21.7	14.4	1.29	279	25.4	27.1	957	13	
		09/03/03	7.1	649	84.3	22.4	14.3	1.18	275	26.4	27.5	1,090	11.8	
		09/16/03	7.1	637	90.8	22	15.7	1.52	265	26.6	25.9	1,220	11.9	
		09/30/03	7.2	656	91.1	23.8	17.1	1.37	287	27.9	28.5	1,380	11.9	
		06/21/04	7	622	90.7	19.5	14.6	1.4	256	25.5	33.8	701	12.4	
		07/07/04	6.9	643	95.6	18.8	13.8	1.3	279	23.7	33.9	563	12.2	
		07/21/04	6.8	632	91.4	20.2	13.5	1.29	231	24.7	33	666	12	
		08/04/04	6.9	622	85.3	20.7	13.5	1.21	260	23.9	29.7	736	11.7	
		08/25/04	6.9	586	89	21.8	13.9	1.23	268	23.1	27.5	827	11.7	
		09/15/04	6.8	597	87.6	22.2	12.8	1.39	264	22.7	26.6	882	12.1	
		10/04/04	7.1	638	90.6	22.5	14	1.35	260	23.7	26.1	1,000	12.1	
		11/05/04	7.1	608	93.8	18.9	12.4	1.5	268	19.9	29.2	775	12.1	
		12/14/04	7	650	100	19.9	12.9	1.32	281	20.7	29.5	631	12.6	
		01/03/05	7	650	95.3	20.8	13.8	1.21	266	22.4	30.1	688	11.8	
		01/26/05	7.1	645	97.2	22.2	13.6	1.26	259	22.3	29.4	738	11.8	
		02/16/05	7	665	96	20.8	13.8	1.21	272	24.1	32.8	692	11.3	
		03/09/05	7	677	104	20.1	15.5	1.28	255	24.8	35.1	613	11.9	
		03/30/05	6.9	655	99.7	21.3	15.5	1.23	269	24.7	32.7	676	12.3	
		04/20/05	6.8	649	100	21.4	15	1.34	263	24	29.1	703	11.9	
05/11/05	6.8	634	94.5	21.5	13.6	1.2	272	22.5	27.9	689	12.2			
06/09/05	6.9	638	87.6	22.1	12.9	1.26	272	22	27.7	709	12.7			

4-4 Recent (2003–05) Water Quality of Barton Springs, Austin, Texas, With Emphasis on Factors Affecting Variability

Appendix 4.1. Major ion concentrations in routine samples, Barton Springs, Austin, Texas (2003–05)—Continued.

USGS site identifier	Site name	Sample date	pH, unfiltered, field, (standard units)	Specific conductance, unfiltered (µS/cm)	Calcium, filtered (mg/L)	Magnesium, filtered (mg/L)	Sodium, filtered (mg/L)	Potassium, filtered (mg/L)	Alkalinity, filtered, incremental titration, field (mg/L as CaCO ₃)	Chloride, filtered (mg/L)	Sulfate, filtered (mg/L)	Strontium, filtered (µg/L)	Silica, filtered (mg/L)	
08155501	Eliza Spring	08/06/03	6.8	638	85.4	18.6	15.1	1.3	275	26.5	27.7	865	11.7	
		08/20/03	7.1	623	92.9	22.2	15.5	1.33	275	26.9	25.9	1,050	12	
		09/03/03	7.1	630	87	22.5	15.1	1.26	273	27.1	27.3	1,200	11.8	
		09/16/03	7.1	645	90.1	22.2	16.5	1.46	267	27.2	26.6	1,300	11.9	
		09/30/03	7.1	631	90.3	23.2	17.7	1.37	271	29.1	28.8	1,470	11.6	
		06/21/04	7	623	92	19.4	14.8	1.35	259	25.8	34.1	754	12.4	
		07/07/04	6.9	647	98.2	19	14.3	1.31	255	24.7	34.7	609	12.3	
		07/21/04	6.8	632	93	20.1	13.8	1.25	234	25.3	33.1	719	12	
		08/04/04	7	623	82.8	20.4	13.3	1.28	227	24.6	29.6	752	11.6	
		08/25/04	6.9	586	91.1	21.8	14.5	1.38	267	23.6	27.3	888	11.8	
		09/15/04	6.8	596	--	--	--	--	--	--	--	--	--	--
		10/04/04	7.1	641	--	--	--	--	--	--	--	--	--	--
		11/05/04	7.1	609	94	18.7	12.6	1.51	250	20.3	29.4	827	12.1	
		12/14/04	7	651	102	19.9	13.1	1.31	269	20.8	29.5	674	12.5	
		01/03/05	7	652	92.8	20.4	14	1.16	267	22.5	29.8	700	11.9	
		01/26/05	7	647	96.3	22	13.8	1.28	263	22.7	29	763	11.8	
		02/16/05	7	667	102	22.1	14.9	1.2	271	24.4	32.5	769	11.8	
		03/09/05	7	681	103	20.1	16.2	1.32	260	25.4	35.6	660	11.9	
		03/30/05	7	658	100	21.2	15.8	1.28	264	25.2	32.3	705	12.3	
		04/20/05	7	650	102	21.3	15.4	1.3	276	24.6	29	742	12	
05/11/05	7	636	91.7	20.6	13.6	1.21	266	22.8	28.9	702	12.2			
08155503	Old Mill Spring	06/09/05	7	638	89.4	22.2	13.5	1.3	282	22.6	27.5	755	12.7	
		08/06/03	6.8	725	87.5	20.6	28.6	1.7	273	46.1	41.7	939	11.8	
		08/20/03	7.1	729	93.2	24.5	28.5	1.54	270	47.6	42.1	1,150	12.4	
		09/03/03	7.1	732	88.1	24.5	26.8	1.55	267	46.6	42	1,180	11.8	
		09/16/03	7.1	727	90.7	24.3	28.9	1.82	267	45.3	40	1,280	12.1	
		09/30/03	7.2	748	91.2	25.2	30.2	1.66	273	48.1	43.3	1,350	11.6	
		06/21/04	7	671	89.4	21.3	25.4	1.6	244	40.5	46	818	11.9	
		07/07/04	7	698	90.5	20.8	25.6	1.53	237	42.4	47	712	11.8	
		07/21/04	6.9	688	90.6	22.1	25.1	1.58	217	42.4	45.9	795	11.8	
		08/04/04	7.1	699	85.2	22.7	26.8	1.61	215	44.4	45	868	11.5	
		08/25/04	6.9	677	92.5	23.7	30.4	1.72	261	46.7	44.2	1,000	11.6	
		09/15/04	6.7	695	--	--	--	--	--	--	--	--	--	--
		10/04/04	7.1	735	--	--	--	--	--	--	--	--	--	--
		11/05/04	7.1	684	91.2	21.1	24.7	1.77	241	39.1	42.6	883	12.1	
		12/14/04	7	716	96.7	22.1	25.9	1.66	E289	40	43.7	793	12.3	
		01/03/05	7	724	88.9	22.5	27	1.51	257	43.1	45.1	805	11.8	
		01/26/05	7.1	717	91.8	23.9	25.7	1.59	261	41.2	43.9	835	11.7	
		02/16/05	7	738	94.5	23.1	26.2	1.5	264	42.9	46.3	837	11.3	
		03/09/05	7	737	107	20.6	15.3	1.29	256	42.3	46.4	637	12	
		03/30/05	7	725	96.9	23.9	27.4	1.53	266	43	45.2	816	12.2	
04/20/05	7	719	103	24.2	28.4	1.7	268	42.1	41.9	877	12.3			
05/11/05	6.9	723	96.4	24.5	27.9	1.56	271	42.7	42	867	12.2			
06/09/05	7	731	89.5	25	27.9	1.67	271	44.3	42.6	884	12.8			

Appendix 4.2. Nutrient concentrations in routine samples, Barton Springs, Austin, Texas (2003-05).

[USGS, U.S. Geological Survey; mg/L, milligrams per liter; <, nondetection; E, estimated; -- not sampled or not analyzed]

USGS site identifier	Site name	Sample date	Ammonia plus organic nitrogen, unfiltered (mg/L)	Ammonia, filtered (mg/L as nitrogen)	Nitrite plus nitrate, filtered (mg/L as nitrogen)	Nitrite, filtered (mg/L as nitrogen)	Orthophosphate, filtered (mg/L as phosphorus)	Phosphorus, filtered (mg/L)	Phosphorus, unfiltered (mg/L)
08155395	Upper Spring	08/06/03	<0.1	E0.014	3.49	<0.008	E0.01	<0.04	<0.04
		08/20/03	<.1	E.009	2.02	<.008	E.01	<.04	<.04
		09/03/03	E.05	E.008	2.08	<.008	<.02	<.04	<.04
		09/16/03	E.06	E.011	1.73	<.008	<.18	E.02	E.03
		09/30/03	<.1	E.01	2.22	<.008	E.01	<.04	<.04
		06/21/04	--	--	1.97	--	--	--	--
		07/07/04	--	--	1.65	--	--	--	--
		07/21/04	--	--	1.95	--	--	--	--
		08/04/04	--	--	1.94	--	--	--	--
		08/25/04	<.1	<.01	2.09	<.008	<.02	E.02	<.04
		09/15/04	--	--	2.32	--	--	--	--
		10/04/04	--	--	1.98	--	--	--	--
		11/05/04	--	--	1.8	--	--	--	--
		11/24/04	--	--	.873	--	--	--	--
		12/14/04	<.1	<.01	2.18	<.008	<.02	<.04	<.04
		01/03/05	--	--	2.23	--	--	--	--
		01/26/05	--	--	2.09	--	--	--	--
		02/16/05	--	--	2.19	--	--	--	--
		03/09/05	E.05	<.01	1.94	<.008	<.02	<.04	<.04
		03/30/05	--	--	2.19	--	--	--	--
04/20/05	--	--	2.13	--	--	--	--		
05/11/05	--	--	1.95	--	--	--	--		
06/09/05	--	--	2.11	--	--	--	--		
08155500	Main Spring	08/06/03	<.1	E.012	1.45	<.008	<.02	<.04	<.04
		08/20/03	<.1	<.015	1.47	<.008	E.01	<.04	<.04
		09/03/03	E.08	<.015	1.46	<.008	<.02	<.04	<.04
		09/16/03	<.1	E.008	1.44	E.005	<.18	E.02	<.04
		09/30/03	<.1	E.008	1.5	<.008	<.02	<.04	<.04
		06/21/04	--	--	1.05	--	--	--	--
		07/07/04	--	--	1.02	--	--	--	--
		07/21/04	--	--	.958	--	--	--	--
		08/04/04	--	--	1.06	--	--	--	--
		08/25/04	<.1	<.01	1.17	<.008	<.02	<.04	<.04
		09/15/04	--	--	1.31	--	--	--	--
		10/04/04	--	--	1.33	--	--	--	--
		11/05/04	--	--	.886	--	--	--	--
		11/24/04	--	--	1.65	--	--	--	--
		12/14/04	<.1	<.01	1.18	<.008	<.02	<.04	<.04
		01/03/05	--	--	1.22	--	--	--	--
		01/26/05	--	--	1.2	--	--	--	--
		02/16/05	--	--	1.18	--	--	--	--
		03/09/05	E.07	<.01	1.11	<.008	<.02	<.04	<.04
		03/30/05	--	--	1.18	--	--	--	--
04/20/05	--	--	1.21	--	--	--	--		
05/11/05	--	--	1.21	--	--	--	--		
06/09/05	<.1	<.01	1.29	<.008	<.02	<.04	<.04		

4–6 Recent (2003–05) Water Quality of Barton Springs, Austin, Texas, With Emphasis on Factors Affecting Variability

Appendix 4.2. Nutrient concentrations in routine samples, Barton Springs, Austin, Texas (2003–05)—Continued.

USGS site identifier	Site name	Sample date	Ammonia plus organic nitrogen, unfiltered (mg/L)	Ammonia, filtered (mg/L as nitrogen)	Nitrite plus nitrate, filtered (mg/L as nitrogen)	Nitrite, filtered (mg/L as nitrogen)	Orthophosphate, filtered (mg/L as phosphorus)	Phosphorus, filtered (mg/L)	Phosphorus, unfiltered (mg/L)
08155501	Eliza Spring	08/06/03	<0.1	E0.014	1.39	<0.008	<0.02	<0.04	<0.04
		08/20/03	<.1	E.009	1.41	<.008	<.02	<.04	<.04
		09/03/03	E.06	<.015	1.41	<.008	<.02	<.04	<.04
		09/16/03	<.1	E.009	1.41	<.008	<.18	<.04	<.04
		09/30/03	<.1	E.008	1.45	<.008	<.02	<.04	<.04
		06/21/04	--	--	.992	--	--	--	--
		07/07/04	--	--	.942	--	--	--	--
		07/21/04	--	--	.909	--	--	--	--
		08/04/04	--	--	.985	--	--	--	--
		08/25/04	<.1	<.01	1.12	<.008	<.02	<.04	<.04
		09/15/04	--	--	1.24	--	--	--	--
		10/04/04	--	--	1.32	--	--	--	--
		11/05/04	--	--	.842	--	--	--	--
		11/24/04	--	--	1.63	--	--	--	--
		12/14/04	<.1	<.01	1.14	<.008	<.02	<.04	<.04
		01/03/05	--	--	1.17	--	--	--	--
		01/26/05	--	--	1.16	--	--	--	--
		02/16/05	--	--	1.13	--	--	--	--
		03/09/05	E.07	<.01	1.08	<.008	<.02	<.04	<.04
		03/30/05	--	--	1.14	--	--	--	--
04/20/05	--	--	1.17	--	--	--	--		
05/11/05	--	--	1.18	--	--	--	--		
06/09/05	--	--	1.23	--	--	--	--		
08155503	Old Mill Spring	08/06/03	E.07	E.013	1.41	<.008	<.02	<.04	E.02
		08/20/03	<.1	E.008	1.46	<.008	E.01	<.04	<.04
		09/03/03	E.07	<.015	1.48	<.008	<.02	<.04	<.04
		09/16/03	<.1	<.015	1.48	<.008	<.18	<.04	<.04
		09/30/03	<.1	E.009	1.47	<.008	<.02	<.04	<.04
		06/21/04	--	--	.96	--	--	--	--
		07/07/04	--	--	.906	--	--	--	--
		07/21/04	--	--	.887	--	--	--	--
		08/04/04	--	--	.969	--	--	--	--
		08/25/04	<.1	<.01	1.14	<.008	<.02	<.04	<.04
		09/15/04	--	--	1.24	--	--	--	--
		10/04/04	--	--	1.34	--	--	--	--
		11/05/04	--	--	.933	--	--	--	--
		11/24/04	--	--	1.50	--	--	--	--
		12/14/04	<.1	<.01	1.1	<.008	<.02	<.04	<.04
		01/03/05	--	--	1.15	--	--	--	--
		01/26/05	--	--	1.16	--	--	--	--
		02/16/05	--	--	1.17	--	--	--	--
		03/09/05	E.07	<.01	1.15	<.008	<.02	<.04	<.04
		03/30/05	--	--	1.22	--	--	--	--
04/20/05	--	--	1.25	--	--	--	--		
05/11/05	--	--	1.28	--	--	--	--		
06/09/05	--	--	1.31	--	--	--	--		

Appendix 4.3. Pesticide compound concentrations in routine samples, Barton Springs, Austin, Texas (2003–05).

[USGS, U.S. Geological Survey; µm, micrometer; µg/L, micrograms per liter; <, nondetection; E, estimated]

USGS site identifier	Site name	Sample date	2,6-Diethyl-aniline, filtered (0.7 µm glass fiber filter), recoverable (µg/L)	2-Chloro-4-isopropyl-amino-6-triazine, filtered, recoverable (µg/L)	Aceto-chlor, filtered, recoverable (µg/L)	Alachlor, filtered, recoverable (µg/L)	alpha-HCH, filtered, recoverable (µg/L)	Atrazine, filtered, recoverable (µg/L)	Azinphos-methyl, filtered (0.7 µm glass fiber filter)	Benfluralin, filtered (0.7 µm glass fiber filter), recoverable (µg/L)	Butylate, filtered, recoverable (µg/L)	Carbaryl, filtered (0.7 µm glass fiber filter), recoverable (µg/L)	Carbofuran, filtered (0.7 µm glass fiber filter), recoverable (µg/L)
08155395	Upper Spring	08/06/03	<0.006	E.013	<0.006	<0.004	<0.005	0.012	<0.05	<0.01	<0.002	<0.041	<0.02
		08/20/03	<0.006	E.012	<0.006	<0.004	<0.005	.014	<0.05	<0.01	<0.002	<0.041	<0.02
		09/03/03	<0.006	E.015	<0.006	<0.004	<0.005	.013	<0.05	<0.01	<0.002	<0.041	<0.02
		09/16/03	<0.006	E.014	<0.006	<0.004	<0.005	.046	<0.05	<0.01	<0.002	<0.041	<0.02
		09/30/03	<0.006	E.016	<0.006	<0.004	<0.005	.013	<0.05	<0.01	<0.002	<0.041	<0.02
		06/21/04	<0.006	E.033	<0.006	<0.005	<0.005	.077	<0.05	<0.01	<0.004	<0.041	<0.02
		07/07/04	<0.006	E.029	<0.006	<0.005	<0.005	.042	<0.05	<0.01	<0.004	<0.041	<0.02
		07/21/04	<0.006	E.02	<0.006	<0.005	<0.005	.028	<0.05	<0.01	<0.004	<0.05	<0.02
		08/04/04	<0.006	E.022	<0.006	<0.005	<0.005	.03	<0.05	<0.01	<0.004	<0.041	<0.02
		08/25/04	<0.006	E.024	<0.006	<0.005	<0.005	.025	<0.05	<0.01	<0.004	<0.041	<0.02
		09/15/04	<0.006	E.014	<0.006	<0.005	<0.005	.02	<0.05	<0.01	<0.004	<0.041	<0.02
		10/04/04	<0.006	E.018	<0.006	<0.005	<0.005	.028	<0.05	<0.01	<0.004	<0.041	<0.02
		11/05/04	<0.006	E.026	<0.006	<0.005	<0.005	.043	<0.05	<0.01	<0.004	<0.041	<0.02
		12/14/04	<0.006	E.025	<0.006	<0.005	<0.005	.028	<0.05	<0.01	<0.004	<0.041	<0.02
		01/03/05	<0.006	E.026	<0.006	<0.005	<0.005	.02	<0.05	<0.01	<0.004	<0.041	<0.02
		01/26/05	<0.006	E.022	<0.006	<0.005	<0.005	.017	<0.05	<0.01	<0.004	<0.041	<0.02
		02/16/05	<0.006	E.023	<0.006	<0.005	<0.005	.015	<0.05	<0.01	<0.004	<0.041	<0.02
		03/09/05	<0.006	E.025	<0.006	<0.005	<0.005	.054	<0.05	<0.01	<0.004	<0.041	<0.02
		03/30/05	<0.006	E.02	<0.006	<0.005	<0.005	.022	<0.05	<0.01	<0.004	<0.041	<0.02
		04/20/05	<0.006	E.02	<0.006	<0.005	<0.005	.013	<0.05	<0.01	<0.004	<0.041	<0.02
05/11/05	<0.006	E.027	<0.006	<0.005	<0.005	.053	<0.05	<0.01	<0.004	<0.041	<0.02		
06/09/05	<0.006	E.026	<0.006	<0.005	<0.005	.021	<0.05	<0.01	<0.004	<0.041	<0.02		
08155500	Main Spring	08/06/03	<0.006	E.005	<0.006	<0.004	<0.005	<0.007	<0.05	<0.01	<0.002	<0.041	<0.02
		08/20/03	<0.006	<0.006	<0.006	<0.004	<0.005	<0.007	<0.05	<0.01	<0.002	<0.041	<0.02
		09/03/03	<0.006	E.006	<0.006	<0.004	<0.005	E.006	<0.05	<0.01	<0.002	<0.041	<0.02
		09/16/03	<0.006	E.006	<0.006	<0.004	<0.005	.013	<0.05	<0.01	<0.002	<0.041	<0.02
		09/30/03	<0.006	E.004	<0.006	<0.004	<0.005	E.006	<0.05	<0.01	<0.002	<0.041	<0.02
		06/21/04	<0.006	E.011	<0.006	<0.005	<0.005	.019	<0.05	<0.01	<0.004	<0.041	<0.02
		07/07/04	<0.006	E.012	<0.006	<0.005	<0.005	.017	<0.05	<0.01	<0.004	<0.041	<0.02
		07/21/04	<0.006	E.008	<0.006	<0.005	<0.005	.011	<0.05	<0.01	<0.004	<0.041	<0.02
		08/04/04	<0.006	E.007	<0.006	<0.005	<0.005	.011	<0.05	<0.01	<0.004	<0.041	<0.02
		08/25/04	<0.006	E.009	<0.006	<0.005	<0.005	.01	<0.05	<0.01	<0.004	<0.041	<0.02
		09/15/04	<0.006	E.008	<0.006	<0.005	<0.005	.012	<0.05	<0.01	<0.004	<0.041	<0.02
		10/04/04	<0.006	E.008	<0.006	<0.005	<0.005	.013	<0.05	<0.01	<0.004	<0.041	<0.02
		11/05/04	<0.006	E.008	<0.006	<0.005	<0.005	.018	<0.05	<0.01	<0.004	<0.041	<0.02
		12/14/04	<0.006	E.007	<0.006	<0.005	<0.005	<0.007	<0.05	<0.01	<0.004	<0.041	<0.02
		01/03/05	<0.006	E.007	<0.006	<0.005	<0.005	E.005	<0.05	<0.01	<0.004	<0.041	<0.02
		01/26/05	<0.006	E.006	<0.006	<0.005	<0.005	E.004	<0.05	<0.01	<0.004	<0.041	<0.02
		02/16/05	<0.006	E.006	<0.006	<0.005	<0.005	E.005	<0.05	<0.01	<0.004	<0.041	<0.02
		03/09/05	<0.006	E.009	<0.006	<0.005	<0.005	.037	<0.05	<0.01	<0.004	<0.041	<0.02
		03/30/05	<0.006	E.006	<0.006	<0.005	<0.005	.017	<0.05	<0.01	<0.004	<0.041	<0.02
		04/20/05	<0.006	E.006	<0.006	<0.005	<0.005	.009	<0.05	<0.01	<0.004	<0.041	<0.02
05/11/05	<0.006	E.008	<0.006	<0.005	<0.005	.021	<0.05	<0.01	<0.004	<0.041	<0.02		
06/09/05	<0.006	E.01	<0.006	<0.005	<0.005	.012	<0.05	<0.01	<0.004	<0.041	<0.02		
08155501	Eliza Spring	08/06/03	<0.006	E.006	<0.006	<0.004	<0.005	E.006	<0.05	<0.01	<0.002	<0.041	<0.02
		08/20/03	<0.006	<0.006	<0.006	<0.004	<0.005	<0.007	<0.05	<0.01	<0.002	<0.041	<0.02
		09/03/03	<0.006	E.003	<0.006	<0.004	<0.005	E.006	<0.05	<0.01	<0.002	<0.041	<0.02
		09/16/03	<0.006	<0.006	<0.006	<0.004	<0.005	.008	<0.05	<0.01	<0.002	<0.041	<0.02
		09/30/03	<0.006	<0.006	<0.006	<0.004	<0.005	<0.007	<0.05	<0.01	<0.002	<0.041	<0.02
		08/25/04	<0.006	E.008	<0.006	<0.005	<0.005	.009	<0.05	<0.01	<0.004	<0.041	<0.02
		12/14/04	<0.006	E.007	<0.006	<0.005	<0.005	<0.007	<0.05	<0.01	<0.004	<0.041	<0.02
08155503	Old Mill Spring	03/09/05	<0.006	E.007	<0.006	<0.005	<0.005	.035	<0.05	<0.01	<0.004	<0.041	<0.02
		08/06/03	<0.006	E.006	<0.006	<0.004	<0.005	E.006	<0.05	<0.01	<0.002	<0.041	<0.02
		08/20/03	<0.006	<0.006	<0.006	<0.004	<0.005	<0.007	<0.05	<0.01	<0.002	<0.041	<0.02
		09/03/03	<0.006	E.005	<0.006	<0.004	<0.005	E.006	<0.05	<0.01	<0.002	<0.041	<0.02
		09/16/03	<0.006	E.005	<0.006	<0.004	<0.005	.008	<0.05	<0.01	<0.002	<0.041	<0.02
		09/30/03	<0.006	<0.006	<0.006	<0.004	<0.005	<0.007	<0.05	<0.01	<0.002	<0.041	<0.02
		08/25/04	<0.006	E.007	<0.006	<0.005	<0.005	.008	<0.05	<0.01	<0.004	<0.041	<0.02
12/14/04	<0.006	<0.006	<0.006	<0.005	<0.005	<0.007	<0.05	<0.01	<0.004	<0.041	<0.02		
03/09/05	<0.006	E.008	<0.006	<0.005	<0.005	.022	<0.05	<0.01	<0.004	<0.041	<0.02		

Appendix 4.3. Pesticide compound concentrations in routine samples, Barton Springs, Austin, Texas (2003–05)—Continued.

USGS site identifier	Site name	Sample date	Propanil, filtered (0.7 µm glass fiber filter), recoverable (µg/L)	Propargite, filtered (0.7 µm glass fiber filter), recoverable (µg/L)	Propyzamide, filtered (0.7 µm glass fiber filter), recoverable (µg/L)	Simazine, filtered, recoverable (µg/L)	Tebuthiuron, filtered (0.7 µm glass fiber filter), recoverable (µg/L)	Terbacil, filtered (0.7 µm glass fiber filter), recoverable (µg/L)	Terbufos, filtered (0.7 µm glass fiber filter), recoverable (µg/L)	Thiobencarb, filtered (0.7 µm glass fiber filter), recoverable (µg/L)	Triallate, filtered (0.7 µm glass fiber filter), recoverable (µg/L)	Trifluralin, filtered (0.7 µm glass fiber filter), recoverable (µg/L)		
08155395	Upper Spring	08/06/03	<0.011	<0.02	<0.004	0.006	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009		
		08/20/03	<.011	<.02	<.004	E.004	<.02	<.034	<.02	<.005	<.002	<.009		
		09/03/03	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009		
		09/16/03	<.011	<.02	<.004	.017	<.02	<.034	<.02	<.005	<.002	<.009		
		09/30/03	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009		
		06/21/04	<.011	<.02	<.004	.007	<.02	<.034	<.02	<.01	<.002	<.009		
		07/07/04	<.011	<.02	<.004	.009	<.02	<.034	<.02	<.01	<.002	<.009		
		07/21/04	<.011	<.02	<.004	<.01	<.02	<.034	<.02	<.01	<.002	<.009		
		08/04/04	<.011	<.02	<.004	.01	<.02	<.034	<.02	<.01	<.002	<.009		
		08/25/04	<.011	<.02	<.004	<.01	<.02	<.034	<.02	<.01	<.002	<.009		
		09/15/04	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.01	<.002	<.009		
		10/04/04	<.011	<.02	<.004	<.01	<.02	<.034	<.02	<.01	<.006	<.009		
		11/05/04	<.011	<.02	<.004	.009	<.02	<.034	<.02	<.01	<.006	<.009		
		12/14/04	<.011	<.02	<.004	<.008	<.02	<.034	<.02	<.01	<.006	<.009		
		01/03/05	<.011	<.02	<.004	.007	<.02	<.034	<.02	<.01	<.006	<.009		
		01/26/05	<.011	<.02	<.004	.007	<.02	<.034	<.02	<.01	<.006	<.009		
		02/16/05	<.011	<.02	<.004	.007	<.02	<.034	<.02	<.01	<.006	<.009		
		03/09/05	<.011	<.02	<.004	E.003	<.02	<.034	<.02	<.01	<.006	<.009		
		03/30/05	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.01	<.006	<.009		
		04/20/05	<.011	<.02	<.004	.007	<.02	<.034	<.02	<.01	<.006	<.009		
		05/11/05	<.011	<.02	<.004	E.004	<.02	<.034	<.02	<.01	<.006	<.009		
		06/09/05	<.011	<.02	<.004	E.005	<.02	<.034	<.02	<.01	<.006	<.009		
		08155500	Main Spring	08/06/03	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009
				08/20/03	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009
09/03/03	<.011			<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009		
09/16/03	<.011			<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009		
09/30/03	<.011			<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009		
06/21/04	<.011			<.02	<.004	E.005	<.02	<.034	<.02	<.01	<.002	<.009		
07/07/04	<.011			<.02	<.004	<.01	<.02	<.034	<.02	<.01	<.002	<.009		
07/21/04	<.011			<.02	<.004	.007	<.02	<.034	<.02	<.01	<.002	<.009		
08/04/04	<.011			<.02	<.004	<.005	<.02	<.034	<.02	<.01	<.002	<.009		
08/25/04	<.011			<.02	<.004	<.005	<.02	<.034	<.02	<.01	<.002	<.009		
09/15/04	<.011			<.02	<.004	<.005	<.02	<.034	<.02	<.01	<.002	<.009		
10/04/04	<.011			<.02	<.004	<.005	<.02	<.034	<.02	<.01	<.006	<.009		
11/05/04	<.011			<.02	<.004	<.01	<.02	<.034	<.02	<.01	<.006	<.009		
12/14/04	<.011			<.02	<.004	<.005	<.02	<.034	<.02	<.01	<.006	<.009		
01/03/05	<.011			<.02	<.004	<.005	<.02	<.034	<.02	<.01	<.006	<.009		
01/26/05	<.011			<.02	<.004	<.005	<.02	<.034	<.02	<.01	<.006	<.009		
02/16/05	<.011			<.02	<.004	.009	<.02	<.034	<.02	<.01	<.006	<.009		
03/09/05	<.011			<.02	<.004	<.015	<.02	<.034	<.02	<.01	<.006	<.009		
03/30/05	<.011			<.02	<.004	E.004	<.02	<.034	<.02	<.01	<.006	<.009		
04/20/05	<.011			<.02	<.004	<.005	<.02	<.034	<.02	<.01	<.006	<.009		
05/11/05	<.011			<.02	<.004	E.002	<.02	<.034	<.02	<.01	<.006	<.009		
06/09/05	<.011			<.02	<.004	<.005	<.02	<.034	<.02	<.01	<.006	<.009		
08155501	Eliza Spring			08/06/03	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009
				08/20/03	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009
		09/03/03	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009		
		09/16/03	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009		
		09/30/03	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009		
		08/25/04	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.01	<.002	<.009		
		12/14/04	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.01	<.006	<.009		
		03/09/05	<.011	<.02	<.004	<.01	<.02	<.034	<.02	<.01	<.006	<.009		
		08155503	Old Mill Spring	08/06/03	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009
				08/20/03	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009
				09/03/03	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009
				09/16/03	<.011	<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009
09/30/03	<.011			<.02	<.004	<.005	<.02	<.034	<.02	<.005	<.002	<.009		
08/25/04	<.011			<.02	<.004	<.005	<.02	<.034	<.02	<.01	<.002	<.009		
12/14/04	<.011			<.02	<.004	<.005	<.02	<.034	<.02	<.01	<.006	<.009		
03/09/05	<.011			<.02	<.004	<.015	<.02	<.034	<.02	<.01	<.006	<.009		

4-12 Recent (2003-05) Water Quality of Barton Springs, Austin, Texas, With Emphasis on Factors Affecting Variability

Appendix 4.4. Volatile organic compound concentrations in routine samples, Barton Springs, Austin, Texas (2003-05).

[USGS, U.S. Geological Survey; µg/L, micrograms per liter; <, nondetection; E, estimated; trichloromethane, chloroform]

USGS site identifier	Site name	Sample date	1,1,1,2-Tetrachloroethane, unfiltered, recoverable (µg/L)	1,1,1-Trichloroethane, unfiltered, recoverable (µg/L)	1,1,2-Tetrachloroethane, unfiltered, recoverable (µg/L)	1,1,2-Trichloro-1,2,2-trifluoroethane, unfiltered, recoverable (µg/L)	1,1,2-Trichloroethane, unfiltered, recoverable (µg/L)	1,1-Dichloroethane, unfiltered, recoverable (µg/L)	1,1-Dichloroethene, unfiltered, recoverable (µg/L)	1,1-Dichloropropene, unfiltered, recoverable (µg/L)	1,2,3,4-Tetramethylbenzene, unfiltered, recoverable (µg/L)	1,2,3,5-Tetramethylbenzene, unfiltered, recoverable (µg/L)
08155395	Upper Spring	08/06/03	<0.03	<0.03	<0.09	<0.06	<0.06	<0.04	<0.04	<0.05	<0.2	<0.2
		08/20/03	<.03	<.03	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		09/03/03	<.03	<.03	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		09/16/03	<.03	<.03	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		09/30/03	<.03	<.03	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		06/21/04	<.03	<.03	<.16	<.04	<.06	<.04	<.02	<.03	<.1	<.1
		07/07/04	<.03	<.03	<.16	<.04	<.06	<.04	<.02	<.03	<.1	<.1
		07/21/04	<.03	<.03	<.16	<.04	<.06	<.04	<.02	<.03	<.1	<.1
		08/04/04	<.03	<.03	<.16	<.04	<.06	<.04	<.02	<.03	<.1	<.1
		08/25/04	<.03	<.03	<.16	<.04	<.06	<.04	<.02	<.03	<.1	<.1
		09/15/04	<.03	<.03	<.16	<.04	<.06	<.04	<.02	<.03	<.1	<.1
		10/04/04	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
		11/05/04	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
		12/14/04	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
		01/03/05	<.03	<.03	<.08	E.01	<.04	<.04	<.04	<.03	<.1	<.1
		01/26/05	<.03	<.03	<.08	E.02	<.04	<.04	<.02	<.03	<.1	<.1
		02/16/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
		03/09/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
		03/30/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
		04/20/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
05/11/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1		
06/09/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1		
08155500	Main Spring	08/06/03	<.03	E.01	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		08/20/03	<.03	<.03	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		09/03/03	<.03	<.03	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		09/16/03	<.03	<.03	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		09/30/03	<.03	<.03	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		06/21/04	<.03	<.03	<.16	<.04	<.06	<.04	<.02	<.03	<.1	<.1
		07/07/04	<.03	<.03	<.16	<.04	<.06	<.04	<.02	<.03	<.1	<.1
		07/21/04	<.03	<.03	<.16	<.04	<.06	<.04	<.02	<.03	<.1	<.1
		08/04/04	<.03	<.03	<.16	<.04	<.06	<.04	<.02	<.03	<.1	<.1
		08/25/04	<.03	<.03	<.16	<.04	<.06	<.04	<.02	<.03	<.1	<.1
		09/15/04	<.03	<.03	<.16	<.04	<.06	<.04	<.02	<.03	<.1	<.1
		10/04/04	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
		11/05/04	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
		12/14/04	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
		01/03/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
		01/26/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
		02/16/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
		03/09/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
		03/30/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
		04/20/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
05/11/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1		
06/09/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1		
08155501	Eliza Spring	08/06/03	<.03	E.01	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		08/20/03	<.03	<.03	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		09/03/03	<.03	<.03	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		09/16/03	<.03	E.01	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		09/30/03	<.03	<.03	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		08/25/04	<.03	<.03	<.16	<.04	<.06	<.04	<.02	<.03	<.1	<.1
		12/14/04	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
		03/09/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
08155503	Old Mill Spring	08/06/03	<.03	E.01	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		08/20/03	<.03	<.03	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		09/03/03	<.03	<.03	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		09/16/03	<.03	E.01	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		09/30/03	<.03	<.03	<.09	<.06	<.06	<.04	<.04	<.05	<.2	<.2
		08/25/04	<.03	<.03	<.16	<.04	<.06	<.04	<.02	<.03	<.1	<.1
		12/14/04	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1
03/09/05	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1		

4-18 Recent (2003-05) Water Quality of Barton Springs, Austin, Texas, With Emphasis on Factors Affecting Variability

Appendix 4.4. Volatile organic compound concentrations in routine samples, Barton Springs, Austin, Texas (2003-05)—Continued.

USGS site identifier	Site name	Sample date	m-Xylene plus p-xylene, unfiltered, recoverable (µg/L)	Naphthalene, unfiltered, recoverable (µg/L)	n-Butyl methyl ketone, unfiltered, recoverable (µg/L)	n-Butylbenzene, unfiltered, recoverable (µg/L)	n-Propylbenzene, unfiltered, recoverable (µg/L)	o-Xylene, unfiltered, recoverable (µg/L)	sec-Butylbenzene, unfiltered, recoverable (µg/L)	Styrene, unfiltered, recoverable (µg/L)	tert-Butyl ether, unfiltered, recoverable (µg/L)	tert-Butylbenzene, unfiltered, recoverable (µg/L)	Tetrachloroethene, unfiltered, recoverable (µg/L)		
08155395	Upper Spring	08/06/03	<0.06	<0.5	<0.7	<0.2	<0.04	<0.07	<0.06	<0.04	<0.05	<0.1	E0.06		
		08/20/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.06		
		09/03/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.06		
		09/16/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.06		
		09/30/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.06		
		06/21/04	<0.06	<.5	<.7	<.1	<.04	<.04	<.06	<.04	<.05	<.06	E.03		
		07/07/04	<0.06	<.5	<.7	<.1	<.04	<.04	<.06	<.04	<.05	<.06	E.02		
		07/21/04	<0.06	<.5	<.7	<.1	<.04	<.04	<.06	<.04	<.05	<.06	E.03		
		08/04/04	<0.06	<.5	<.7	<.1	<.04	<.04	<.06	<.04	<.05	<.06	E.04		
		08/25/04	<0.06	<.5	<.7	<.1	<.04	<.04	<.06	<.04	<.05	<.06	E.05		
		09/15/04	<0.06	<.5	<.7	<.1	<.04	<.04	<.06	<.04	<.05	<.06	E.05		
		10/04/04	<0.06	<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	E.05		
		11/05/04	<0.06	<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	E.04		
		12/14/04	<0.06	<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	E.02		
		01/03/05	<0.06	<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	E.03		
		01/26/05	<0.06	<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	E.04		
		02/16/05	<0.06	<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	E.04		
		03/09/05	<0.06	<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	E.05		
		03/30/05	<0.06	<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	E.04		
		04/20/05	<0.06	<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	E.05		
		05/11/05	<0.06	<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	E.05		
		06/09/05	<0.06	<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	E.04		
		08155500	Main Spring	08/06/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.04
				08/20/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.06
09/03/03	<0.06			<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.06		
09/16/03	<0.06			<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	.18		
09/30/03	<0.06			<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.06		
06/21/04	<0.06			<.5	<.7	<.1	<.04	<.04	<.06	<.04	<.05	<.06	.25		
07/07/04	<0.06			<.5	<.7	<.1	<.04	<.04	<.06	<.04	<.05	<.06	.29		
07/21/04	<0.06			<.5	<.7	<.1	<.04	<.04	<.06	<.04	<.05	<.06	.11		
08/04/04	<0.06			<.5	<.7	<.1	<.04	<.04	<.06	<.04	<.05	<.06	E.08		
08/25/04	<0.06			<.5	<.7	<.1	<.04	<.04	<.06	<.04	<.05	<.06	E.09		
09/15/04	<0.06			<.5	<.7	<.1	<.04	<.04	<.06	<.04	<.05	<.06	.24		
10/04/04	<0.06			<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	.13		
11/05/04	<0.06			<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	.12		
12/14/04	<0.06			<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	.11		
01/03/05	<0.06			<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	.19		
01/26/05	<0.06			<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	E.1		
02/16/05	<0.06			<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	.17		
03/09/05	<0.06			<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	.33		
03/30/05	<0.06			<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	.14		
04/20/05	<0.06			<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	.11		
05/11/05	<0.06			<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	.1		
06/09/05	<0.06			<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	E.07		
08155501	Eliza Spring			08/06/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.03
				08/20/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.06
		09/03/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.06		
		09/16/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	.19		
		09/30/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.04		
		08/25/04	<0.06	<.5	<.7	<.1	<.04	<.04	<.06	<.04	<.05	<.06	E.08		
		12/14/04	<0.06	<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	.12		
		03/09/05	<0.06	<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	.34		
08155503	Old Mill Spring	08/06/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.04		
		08/20/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.06		
		09/03/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.06		
		09/16/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	.15		
		09/30/03	<0.06	<.5	<.7	<.2	<.04	<.07	<.06	<.04	<.05	<.1	E.05		
		08/25/04	<0.06	<.5	<.7	<.1	<.04	<.04	<.06	<.04	<.05	<.06	E.08		
		12/14/04	<0.06	<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	E.08		
03/09/05	<0.06	<.5	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.06	.21				

Appendix 4.4. Volatile organic compound concentrations in routine samples, Barton Springs, Austin, Texas (2003–05)—Continued.

USGS site identifier	Site name	Sample date	Tetra-chloro-methane, unfiltered, recoverable (µg/L)	Tetra-hydro-furan, unfiltered, recoverable (µg/L)	Toluene, unfiltered, recoverable (µg/L)	trans-1,2-Dichloro-ethene, unfiltered, recoverable (µg/L)	trans-1,3-Dichloro-propene, unfiltered, recoverable (µg/L)	trans-1,4-Dichloro-2-butene, unfiltered, recoverable (µg/L)	Tribromo-methane, unfiltered, recoverable (µg/L)	Trichloro-ethene, unfiltered, recoverable (µg/L)	Trichloro-fluoro-methane, unfiltered, recoverable (µg/L)	Trichloro-methane, unfiltered, recoverable (µg/L)	Vinyl chloride, unfiltered, recoverable (µg/L)		
08155395	Upper Spring	08/06/03	<0.06	<2	<0.05	<0.03	<0.09	<0.7	<0.1	<0.04	<0.09	0.14	<0.1		
		08/20/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	.15	<.1		
		09/03/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	.13	<.1		
		09/16/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	.12	<.1		
		09/30/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	.15	<.1		
		06/21/04	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.16	E.09	<.1		
		07/07/04	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.16	E.07	<.1		
		07/21/04	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.16	E.08	<.1		
		08/04/04	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.16	.1	<.1		
		08/25/04	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.16	E.09	<.1		
		09/15/04	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.16	E.1	<.1		
		10/04/04	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	E.07	<.1		
		11/05/04	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	E.09	<.1		
		12/14/04	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	.11	<.1		
		01/03/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	E.1	<.1		
		01/26/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	E.09	<.1		
		02/16/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	.1	<.1		
		03/09/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	.11	<.1		
		03/30/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	E.09	<.1		
		04/20/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	E.1	<.1		
05/11/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	E.1	<.1				
06/09/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	.11	<.1				
08155500	Main Spring	08/06/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	E.04	<.1		
		08/20/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	E.07	<.1		
		09/03/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	E.04	<.1		
		09/16/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	E.01	<.09	E.07	<.1		
		09/30/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	E.05	<.1		
		06/21/04	<.06	<2	<.05	<.03	<.09	<.7	<.1	E.02	<.16	E.06	<.1		
		07/07/04	<.06	<2	<.05	<.03	<.09	<.7	<.1	E.03	<.16	E.05	<.1		
		07/21/04	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.16	E.05	<.1		
		08/04/04	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.16	E.08	<.1		
		08/25/04	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.16	E.06	<.1		
		09/15/04	<.06	<2	<.05	<.03	<.09	<.7	<.1	E.01	<.16	E.05	<.1		
		10/04/04	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	E.05	<.1		
		11/05/04	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	E.05	<.1		
		12/14/04	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	E.04	<.1		
		01/03/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	E.01	<.08	E.04	<.1		
		01/26/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	E.03	<.1		
		02/16/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	E.01	<.08	E.05	<.1		
		03/09/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	E.03	<.08	E.07	<.1		
		03/30/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	E.01	<.08	E.06	<.1		
		04/20/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	E.05	<.1		
05/11/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	E.05	<.1				
06/09/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	E.04	<.1				
08155501	Eliza Spring	08/06/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	E.04	<.1		
		08/20/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	E.06	<.1		
		09/03/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	E.04	<.1		
		09/16/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	E.02	<.09	E.06	<.1		
		09/30/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	E.04	<.1		
		08/25/04	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.16	E.06	<.1		
		12/14/04	<.06	<1	<.02	<.03	<.09	<.7	<.1	E.01	<.08	E.03	<.1		
		03/09/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	E.03	<.08	E.07	<.1		
		08155503	Old Mill Spring	08/06/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	E.03	<.1
				08/20/03	<.06	<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	E.06	<.1
09/03/03	<.06			<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	E.04	<.1		
09/16/03	<.06			<2	<.05	<.03	<.09	<.7	<.1	<.04	<.09	E.05	<.1		
09/30/03	<.06			<2	E.01	<.03	<.09	<.7	<.1	<.04	<.09	E.04	<.1		
08/25/04	<.06			<2	<.05	<.03	<.09	<.7	<.1	<.04	<.16	E.05	<.1		
12/14/04	<.06			<1	<.02	<.03	<.09	<.7	<.1	<.04	<.08	E.02	<.1		
03/09/05	<.06	<1	<.02	<.03	<.09	<.7	<.1	E.02	<.08	E.05	<.1				

