

**Table 20.** Summary of acidic organic wastewater compound (table 5) data for the summer 2003 Boulder Creek, Colorado (BC) and Fourmile Creek, Iowa (FC) Lagrangian samplings. [Site identifier defined in table 2; U, upstream from wastewater treatment plant (WWTP); E, WWTP effluent; BC-D3.6, BC-D5.0, BC-D7.4, FC-D0.4, FC-D2.9, FC-D8.4, and FC-D10.6 are sites downstream from the WWTP indicating distance in kilometers; MC, Muchikinock Creek; number after compound indicates replicate analysis; µg/L, microgram per liter; <, less than method detection limit; --, not determined.]

Constituent	Unit	Boulder Creek						Fourmile Creek							
		BC-U	BC-E	BC-D3.6	BC-D5.0	BC-D7.4	Blank	FC-U	FC-E	FC-D0.4	FC-D2.9	FC-D8.4	FC-D10.6	FC-MC	Blank
Date		9/3/2003	9/3/2003	9/3/2003	9/3/2003	9/3/2003	9/3/2003	8/5/2003	8/5/2003	8/5/2003	8/5/2003	8/6/2003	8/6/2003	8/6/2003	8/6/2003
Time		0830	0915	1215	1330	1540	1640	1130	1245	1300	1845	0700	1130	0745	1110
<b>Compound</b>															
Ethylenediaminetetraacetic acid 1	µg/L	0.1	100	16	--	13	0.5	0.3	230	130	110	95	58	0.6	<0.1
Ethylenediaminetetraacetic acid 2	µg/L	0.2	100	15	--	18	0.3	--	--	--	--	--	--	--	--
Ethylenediaminetetraacetic acid 3	µg/L	0.2	100	16	--	22	0.3	--	--	--	--	--	--	--	--
Nitrioltriacetic acid 1	µg/L	<0.1	1.5	0.5	--	0.4	<0.1	0.0	0.6	0.5	0.4	0.6	0.3	<0.1	<0.1
Nitrioltriacetic acid 2	µg/L	<0.1	1.1	0.4	--	0.7	<0.1	--	--	--	--	--	--	--	--
Nitrioltriacetic acid 3	µg/L	<0.1	1.2	0.4	--	0.9	<0.1	--	--	--	--	--	--	--	--
4-Nonylphenolmonoethoxycarboxylic acid 1	µg/L	0.6	130	46	--	38	1.6	0.5	5.3	6.5	4.6	8.5	4.5	1.8	<0.1
4-Nonylphenolmonoethoxycarboxylic acid 2	µg/L	0.8	110	54	--	52	0.7	--	--	--	--	--	--	--	--
4-Nonylphenolmonoethoxycarboxylic acid 3	µg/L	0.6	110	42	--	71	1.3	--	--	--	--	--	--	--	--
4-Nonylphenoldiethoxycarboxylic acid 1	µg/L	0.1	38	15	--	15	1.1	0.2	7.1	7.1	6.0	8.3	4.4	1.0	<0.1
4-Nonylphenoldiethoxycarboxylic acid 2	µg/L	0.2	37	16	--	21	0.5	--	--	--	--	--	--	--	--
4-Nonylphenoldiethoxycarboxylic acid 3	µg/L	0.2	42	17	--	27	2.1	--	--	--	--	--	--	--	--
4-Nonylphenoltriethoxycarboxylic acid 1	µg/L	<0.1	1.0	0.4	--	0.4	<0.1	0.1	0.5	0.5	0.3	0.4	0.2	0.1	<0.1
4-Nonylphenoltriethoxycarboxylic acid 2	µg/L	<0.1	1.2	0.4	--	0.4	<0.1	--	--	--	--	--	--	--	--
4-Nonylphenoltriethoxycarboxylic acid 3	µg/L	<0.1	1.2	0.4	--	0.6	<0.1	--	--	--	--	--	--	--	--
4-Nonylphenoltetraethoxycarboxylic acid 1	µg/L	<0.1	0.5	0.2	--	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Nonylphenoltetraethoxycarboxylic acid 2	µg/L	<0.1	0.6	0.2	--	0.2	<0.1	--	--	--	--	--	--	--	--
4-Nonylphenoltetraethoxycarboxylic acid 3	µg/L	<0.1	0.6	0.2	--	0.2	<0.1	--	--	--	--	--	--	--	--
<b>Surrogate Standards</b>															
4-normal-Nonylphenoldiethoxycarboxylic acid 1	percent	92	77	91	--	95	310	32	28	12	38	26	27	41	--
4-normal-Nonylphenoldiethoxycarboxylic acid 2	percent	100	80	100	--	140	200	--	--	--	--	--	--	--	--
4-normal-Nonylphenoldiethoxycarboxylic acid 3	percent	69	93	100	--	150	230	--	--	--	--	--	--	--	--