

SSA STUDY BASEFLOW SAMPLE RESULTS (mg/l)

subject to QA review

station	event	event date	sample type	dryant (hrs)	72hrant (in)	48hrant (in)	sample time	SAMPLE ID	pH	alk	hard	TSS	DOC	Ca2+	Mg2+	d-Cu	TR-Cu	d-Zn	TR-Zn	d-Cd
1	DMEssa	BF1-1	15-Aug	grab	48	0.02	0.00	8/15/01 12:40	DMESSA-081501-BF	6.84	58.8	53.9	5.5	8.62	12.4	3.32	0.0017	0.0043	0.005	
2	DMEssa	BF1-2	16-Aug	grab	72	0.02	0.00	8/16/01 11:40	DMESSA-81601-BF	6.57	63.8	67.5	10	9.20	15.7	3.99	0.0021	0.0046	0.011	0.017
3	DMEssa	BF1-3	17-Aug	grab	96	0.00	0.00	8/17/01 14:00	DMESSA081701BF	6.85	54.5	54.3	7.0	7.87	13.2	3.50	<0.001	0.0087	0.005	0.019
4	DMEssa	BF2-1	18-Sep	grab	27	0.02	0.02	9/18/01 11:15	DMESSA091801-BF	6.95	52.9	55.9	1.8	6.51	14.4	4.39	0.0012	0.0016	0.011	0.013
5	DMEssa	BF2-2	19-Sep	grab	51	0.02	0.00	9/19/01 11:15	DMESSA091901-BF	6.89	40.8	52.6	1.5	13.7	14.8	3.61	0.0125	0.0146	0.011	0.081
6	DMEssa	BF2-3	20-Sep	grab	75	0.00	0.00	9/20/01 11:44	DMESSA092001-BF	7.02	51.8	52.8	1.1	6.86	14.1	3.82	0.0018	0.0040	<0.005	0.020
7	DMEssa	BF3-1	2-Oct	grab	147	0.00	0.00	10/20/01 10:41	DMESSA100201-BF	6.88	47.3	43.8	7.0	9.96	12.8	3.74	<0.001	0.0011	<0.005	0.010
8	DMEssa	BF3-2	3-Oct	grab	171	0.00	0.00	10/30/01 13:05	DMESSA100301BF	7.12	48.1	44.8	7.5	10.0	12.7	3.90	<0.001	<0.001	0.006	0.009
9	DMEssa	BF3-3	4-Oct	grab	195	0.00	0.00	10/40/01 13:17	DMESSA100401BF	6.91	47	45	6.0	9.408	12.1	4.0	0.0010	0.0012	<0.005	<0.005
10	NFOut	BF1-1	15-Aug	grab	48	0.02	0.00	8/15/01 13:05	NFOUT-081501-BF	6.76	80.1	75.7	3.0	7.72	15.5	6.50	0.0012	0.0017	<0.005	0.009
11	NFOut	BF1-2	16-Aug	grab	72	0.02	0.00	8/16/01 12:00	NFOUT-81601-BF	6.59	80.7	73.6	1.0	7.13	16.5	6.96	<0.001	0.0016	<0.005	<0.005
12	NFOut	BF1-3	17-Aug	grab	96	0.00	0.00	8/17/01 13:29	NFOUT081701BF	6.06	82.8	75.6	8.0	7.39	15.3	6.72	0.0013	0.0013	<0.005	0.006
13	NFOut	BF2-1	18-Sep	grab	27	0.02	0.02	9/18/01 11:56	NFOUT091801-BF	6.69	70.7	68.8	3.5	7.57	16.0	6.54	<0.001	<0.001	<0.005	<0.005
14	NFOut	BF2-2	19-Sep	grab	51	0.02	0.00	9/19/01 11:53	NFOUT091901-BF	6.69	72.2	66.3	2.5	7.59	15.5	6.80	<0.001	<0.001	<0.005	0.007
15	NFOut	BF2-3	20-Sep	grab	75	0.00	0.00	9/20/01 12:31	NFOUT092001-BF	6.64	71.9	66.3	1.5	7.92	15.4	6.33	<0.001	<0.001	<0.005	<0.005
16	NFOut	BF3-1	2-Oct	grab	147	0.00	0.00	10/20/01 11:17	NFOUT100201-BF	6.63	72.1	67.2	0.83	7.38	17.5	6.27	<0.001	<0.001	<0.005	<0.005
17	NFOut	BF3-2	3-Oct	grab	171	0.00	0.00	10/30/01 13:43	NFOUT100301BF	6.68	72.5	68.0	<0.5	7.03	17.3	6.56	<0.001	<0.001	<0.005	<0.005
18	NFOut	BF3-3	4-Oct	grab	195	0.00	0.00	10/40/01 13:40	NFOUT100401BF	6.59	71	68	0.8	6.948	17.3	6.7	<0.001	<0.001	<0.005	0.013
19	DMKCweir	BF1-1	15-Aug	grab	48	0.02	0.00	8/15/01 12:55	DMKCWEIR-081501-BF	7.17	94.3	105	0.87	3.13	18.4	12.0	<0.001	<0.001	<0.005	<0.005
20	DMKCweir	BF1-2	16-Aug	grab	72	0.02	0.00	8/16/01 11:50	DMKCWEIR-081601-BF	6.91	95.9	104	4.0	2.90	19.0	11.8	<0.001	0.0013	<0.005	<0.005
21	DMKCweir	BF1-3	17-Aug	grab	96	0.00	0.00	8/17/01 13:39	DMKCWEIR081701BF	7.00	91.8	105	1.0	2.87	18.5	11.7	<0.001	0.0015	<0.005	<0.005
22	DMKCweir	BF2-1	18-Sep	grab	27	0.02	0.02	9/18/01 11:35	DMKCWEIR091801-BF	7.01	94.6	100	1.0	3.22	20.1	13.1	<0.001	<0.001	0.006	0.007
23	DMKCweir	BF2-2	19-Sep	grab	51	0.02	0.00	9/19/01 11:42	DMKCWEIR091901-BF	6.81	84.8	95.8	1.8	5.88	19.3	11.8	<0.001	<0.001	0.006	0.008
24	DMKCweir	BF2-3	20-Sep	grab	75	0.00	0.00	9/20/01 12:12	DMKCWEIR092001-BF	7.00	86.3	95.2	3.8	3.99	20.1	10.2	<0.001	<0.001	<0.005	0.007
25	DMKCweir	BF3-1	2-Oct	grab	147	0.00	0.00	10/20/01 11:07	DMKCWEIR100201-BF	6.96	80.4	89.3	2.0	4.92	19.8	9.80	<0.001	<0.001	<0.005	0.005
26	DMKCweir	BF3-2	3-Oct	grab	171	0.00	0.00	10/30/01 13:32	DMKCWEIR100301BF	7.10	82.9	87.4	2.0	4.29	20.4	10.5	<0.001	<0.001	<0.005	<0.005
27	DMKCweir	BF3-3	4-Oct	grab	195	0.00	0.00	10/40/01 13:30	DMKCWEIR100401BF	6.66	85	90	1.8	4.112	19.7	10.9	0.0010	<0.001	<0.005	<0.005
28	MCssa	BF1-1	15-Aug	grab	48	0.02	0.00	8/15/01 11:40	MCSSA-081501-BF	7.01	162	149	5.5	4.83	25.8	20.0	0.0011	0.0013	<0.005	0.008
29	MCssa	BF1-2	16-Aug	grab	72	0.02	0.00	8/16/01 10:50	MCSSA-081601-BF	6.88	164	150	5.5	4.70	22.9	17.3	<0.001	0.0018	0.005	0.008
30	MCssa	BF1-3	17-Aug	grab	96	0.00	0.00	8/17/01 10:48	MCSSA081701BF	7.16	165	153	5.2	4.51	25.2	18.8	<0.001	<0.001	<0.005	<0.005
31	MCssa	BF2-1	18-Sep	grab	27	0.02	0.02	9/18/01 10:24	MCSSA091801-BF	7.09	173	161	4.0	4.08	28.0	21.1	<0.001	<0.001	<0.005	<0.005
32	MCssa	BF2-2	19-Sep	grab	51	0.02	0.00	9/19/01 10:11	MCSSA091901-BF	7.12	160	155	5.2	5.32	27.0	19.9	<0.001	0.0059	0.006	0.008
33	MCssa	BF2-3	20-Sep	grab	75	0.00	0.00	9/20/01 10:10	MCSSA092001-BF	7.32	175	165	3.2	4.51	26.2	21.1	<0.001	<0.001	<0.005	<0.005
34	MCssa	BF3-1	2-Oct	grab	147	0.00	0.00	10/20/01 10:01	MCSSA100201-BF	6.88	157	155	2.8	5.02	31.5	20.0	<0.001	<0.001	<0.005	0.005
35	MCssa	BF3-2	3-Oct	grab	171	0.00	0.00	10/30/01 11:54	MCSSA100301BF	7.01	161	154	2.8	4.09	33.9	21.4	<0.001	<0.001	<0.005	<0.005

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sort	station	event	event date	d-Cr	d-Pb	d-Ni	TR-Cd	TR-Cr	TR-Pb	TR-Ni
1	DMEssa	BF1-1	15-Aug							
2	DMEssa	BF1-2	16-Aug							
3	DMEssa	BF1-3	17-Aug							
4	DMEssa	BF2-1	18-Sep							
5	DMEssa	BF2-2	19-Sep							
6	DMEssa	BF2-3	20-Sep							
7	DMEssa	BF3-1	2-Oct							
8	DMEssa	BF3-2	3-Oct							
9	DMEssa	BF3-3	4-Oct							
10	NPou	BF1-1	15-Aug							
11	NPou	BF1-2	16-Aug							
12	NPou	BF1-3	17-Aug							
13	NPou	BF2-1	18-Sep							
14	NPou	BF2-2	19-Sep							
15	NPou	BF2-3	20-Sep							
16	NPou	BF3-1	2-Oct							
17	NPou	BF3-2	3-Oct							
18	NPou	BF3-3	4-Oct							
19	DNKCweir	BF1-1	15-Aug							
20	DNKCweir	BF1-2	16-Aug							
21	DNKCweir	BF1-3	17-Aug							
22	DNKCweir	BF2-1	18-Sep							
23	DNKCweir	BF2-2	19-Sep							
24	DNKCweir	BF2-3	20-Sep							
25	DNKCweir	BF3-1	2-Oct							
26	DNKCweir	BF3-2	3-Oct							
27	DNKCweir	BF3-3	4-Oct							
28	MCssa	BF1-1	15-Aug							
29	MCssa	BF1-2	16-Aug							
30	MCssa	BF1-3	17-Aug							
31	MCssa	BF2-1	18-Sep							
32	MCssa	BF2-2	19-Sep							
33	MCssa	BF2-3	20-Sep							
34	MCssa	BF3-1	2-Oct							
35	MCssa	BF3-2	3-Oct							

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sort	station	event	event date	sample type	dryant (hrs)	72hrant (hr)	48hrant (hr)	sample time	SAMPLE ID	pH	alk	hard	TSS	DOC	Ca2+	Mg2+	d-Cu	TR-Cu	d-Zn	TR-Zn	d-Cd
36	MCssa	BF3-3	4-Oct	grab	195	0.00	0.00	10/4/01 12:21	MCSSA100401BF	7.39	167	154	5.2	4.028	32.4	21.6	<0.001	0.0013	<0.005	<0.005	
37	MC8th	BF1-1	15-Aug	grab	48	0.02	0.00	8/15/01 12:05	MC8TH-081501-BF	7.67	129	124	2.3	4.71	19.0	14.1	0.0013	0.0021	<0.005	0.006	
38	MC8th	BF1-2	16-Aug	grab	72	0.02	0.00	8/16/01 11:10	MC8TH-81601-BF	7.61	130	127	1.9	4.61	20.8	15.3	<0.001	0.0021	<0.005	<0.005	
39	MC8th	BF1-3	17-Aug	grab	96	0.00	0.00	8/17/01 11:20	MC8TH-081701BF	7.65	130	127	2.6	4.37	26.8	17.8	<0.001	0.0017	<0.005	<0.005	
40	MC8th	BF2-1	18-Sep	grab	27	0.02	0.02	9/18/01 10:38	MC8TH-091801-BF	7.65	129	128	1.3	4.10	23.8	18.6	<0.001	<0.001	<0.005	<0.005	
41	MC8th	BF2-2	19-Sep	grab	51	0.02	0.00	9/19/01 10:42	MC8TH-091901-BF	7.64	126	128	2.0	5.21	23.8	17.3	<0.001	<0.001	<0.005	<0.005	
42	MC8th	BF2-3	20-Sep	grab	75	0.00	0.00	9/20/01 10:47	MC8TH-092001-BF	7.64	130	136	1.8	4.40	21.6	16.3	<0.001	<0.001	<0.005	<0.005	
43	MC8th	BF3-1	2-Oct	grab	147	0.00	0.00	10/2/01 10:15	MC8TH100201-BF	7.52	128	124	1.4	4.26	25.1	16.0	<0.001	<0.001	<0.005	<0.005	
44	MC8th	BF3-2	3-Oct	grab	171	0.00	0.00	10/3/01 12:24	MC8TH100301BF	7.76	127	128	1.4	4.07	21.4	11.3	<0.001	<0.001	<0.005	0.007	
45	MC8th	BF3-3	4-Oct	grab	195	0.00	0.00	10/4/01 12:43	MC8TH100401BF	7.70	125	127	1.0	3.830	26.5	17.2	0.0011	0.0013	<0.005	<0.005	
46	WCupN	BFA-1	7-Jun	grab	25	0.07	0.06	6/7/01 8:25	WCUPN060701-1	6.60	141	123	45	10.2	27.7	12.3	<0.001	<0.001	0.006	0.011	
47	WCupN	BFA-1	7-Jun	grab	25	0.07	0.06	6/7/01 15:17	WCUPN060701-2	6.71	140	123	45	10.2	27.7	12.3	<0.001	<0.001	0.006	0.011	
48	WCupN	BFA-2	8-Jun	grab	69	0.06	0.00	6/8/01 6:45	WCUPN060801-1	6.50	128	127	102	9.96	25.3	11.9	<0.001	<0.001	<0.005	<0.005	
49	WCupN	BFA-2	8-Jun	grab	69	0.06	0.00	6/8/01 14:55	WCUPN060801-2	6.64	134	121	58	10.6	25.9	11.9	<0.001	<0.001	<0.005	<0.005	
50	WCupS	BFA-1	7-Jun	grab	25	0.07	0.06	6/7/01 8:25	WCUPS060701-1	7.07	120	121	7.5	1.34	20.4	18.6	<0.001	<0.001	<0.005	<0.005	
51	WCupS	BFA-1	7-Jun	grab	25	0.07	0.06	6/7/01 15:07	WCUPS060701-2	7.08	119	119	1.0	1.29	21.6	19.2	<0.001	<0.001	<0.005	<0.005	
52	WCupS	BFA-2	8-Jun	grab	69	0.06	0.00	6/8/01 8:41	WCUPS060801-1	7.00	120	121	6.3	1.67	17.8	17.0	<0.001	<0.001	<0.005	<0.005	
53	WCupS	BFA-2	8-Jun	grab	69	0.06	0.00	6/8/01 14:48	WCUPS060801-2	6.92	129	119	2.7	1.33	17.8	17.5	<0.001	<0.001	<0.005	<0.005	
54	WCupS	BF1-1	15-Aug	grab	48	0.02	0.00	8/15/01 12:17	WCUPS-081501-BF	6.91	124	121	1.3	1.23	16.8	16.8	0.0016	0.0017	<0.005	0.006	
55	WCupS	BF1-2	16-Aug	grab	72	0.02	0.00	8/16/01 11:15	WCUPS-81601-BF	6.65	123	120	6.0	1.25	17.8	17.5	0.0011	0.0011	<0.005	<0.005	
56	WCupS	BF1-3	17-Aug	grab	96	0.00	0.00	8/17/01 11:35	WCUPS081701BF	6.93	122	118	3.1	1.19	17.0	17.0	<0.001	<0.001	<0.005	0.009	
57	WCupS	BF2-1	18-Sep	grab	27	0.02	0.02	9/18/01 10:52	WCUPS081801-BF	7.04	118	124	2.8	1.18	18.3	19.3	<0.001	<0.001	<0.005	0.005	
58	WCupS	BF2-2	19-Sep	grab	51	0.02	0.00	9/19/01 10:54	WCUPS081901-BF	7.01	117	117	8.7	1.26	18.1	20.4	<0.001	<0.001	<0.005	<0.005	
59	WCupS	BF2-3	20-Sep	grab	75	0.00	0.00	9/20/01 11:08	WCUPS082001-BF	7.09	116	123	4.1	1.18	18.8	18.8	<0.001	<0.001	<0.005	0.008	
60	WCupS	BF3-1	2-Oct	grab	147	0.00	0.00	10/2/01 10:24	WCUPS100201-BF	6.91	116	117	2.9	1.12	19.4	18.8	<0.001	<0.001	<0.005	0.005	
61	WCupS	BF3-2	3-Oct	grab	171	0.00	0.00	10/3/01 12:34	WCUPS100301BF	7.01	120	122	1.3	0.970	20.3	19.5	<0.001	<0.001	<0.005	<0.005	
62	WCupS	BF3-3	4-Oct	grab	195	0.00	0.00	10/4/01 13:00	WCUPS100401BF	7.14	117	120	1.3	0.906	19.0	18.4	<0.001	<0.001	<0.005	0.014	
63	WC171st	BFA-1	7-Jun	grab	25	0.07	0.06	6/7/01 8:15	WC171060701-1	7.51	135	129	1.7	2.94	21.1	18.3	<0.001	<0.001	<0.005	<0.005	
64	WC171st	BFA-1	7-Jun	grab	25	0.07	0.06	6/7/01 14:44	WC171060701-2	8.23	130	126	1.7	3.24	20.2	18.2	<0.001	<0.001	<0.005	<0.005	
65	WC171st	BFA-2	8-Jun	grab	69	0.06	0.00	6/8/01 8:30	WC171060801-1	7.39	129	128	<0.5	2.78	19.9	17.9	<0.001	<0.001	<0.005	<0.005	
66	WC171st	BFA-2	8-Jun	grab	69	0.06	0.00	6/8/01 14:40	WC171060801-2	8.08	128	124	3.0	3.19	18.9	18.0	<0.001	<0.001	<0.005	<0.005	
67	Reba	screen	25-Apr	12-hr thr	37	0.09	0.04	4/25/01 4:40	REBAOUT042501-WER 1			150	6.00	7.6			<0.001	<0.001	<0.005	<0.005	<0.00050
68	Reba	screen	25-Apr	12-hr thr	37	0.09	0.04	4/25/01 16:40	REBAOUT042501-WER 2			153	7.2	7.83			<0.001	<0.001	0.010	0.015	<0.00050
69	Reba	screen	25-Apr	12-hr thr	37	0.09	0.04	4/26/01 4:40	REBAOUT042601-WER 3			153	18	7.71			<0.001	<0.001	0.010	0.008	<0.00050
70	Reba	screen	25-Apr	12-hr thr	37	0.09	0.04	4/26/01 16:40	REBAOUT042601-WER 4			163	11	7.69			<0.001	<0.001	0.008	0.007	<0.00050

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subject to QA review

sort	station	event	event date	d-Cr	d-Pb	d-Ni	TR-Cd	TR-Cr	TR-Pb	TR-Ni
36	MCassa	BF3-3	4-Oct							
37	MC8th	BF1-1	15-Aug							
38	MC8th	BF1-2	16-Aug							
39	MC8th	BF1-3	17-Aug							
40	MC8th	BF2-1	18-Sep							
41	MC8th	BF2-2	19-Sep							
42	MC8th	BF2-3	20-Sep							
43	MC8th	BF3-1	2-Oct							
44	MC8th	BF3-2	3-Oct							
45	MC8th	BF3-3	4-Oct							
46	WCupN	BFA-1	7-Jun							
47	WCupN	BFA-1	7-Jun							
48	WCupN	BFA-2	8-Jun							
49	WCupN	BFA-2	8-Jun							
50	WCupS	BFA-1	7-Jun							
51	WCupS	BFA-1	7-Jun							
52	WCupS	BFA-2	8-Jun							
53	WCupS	BFA-2	8-Jun							
54	WCupS	BF1-1	15-Aug							
55	WCupS	BF1-2	16-Aug							
56	WCupS	BF1-3	17-Aug							
57	WCupS	BF2-1	18-Sep							
58	WCupS	BF2-2	19-Sep							
59	WCupS	BF2-3	20-Sep							
60	WCupS	BF3-1	2-Oct							
61	WCupS	BF3-2	3-Oct							
62	WCupS	BF3-3	4-Oct							
63	WC171st	BFA-1	7-Jun							
64	WC171st	BFA-1	7-Jun							
65	WC171st	BFA-2	8-Jun							
66	WC171st	BFA-2	8-Jun							
67	Reba	screen	25-Apr	<0.0010	<0.0010	<0.010	<0.00050	<0.0010	<0.0010	<0.010
68	Reba	screen	25-Apr	<0.0010	<0.0010	<0.010	<0.00050	<0.0010	<0.0010	<0.010
69	Reba	screen	25-Apr	<0.0010	<0.0010	<0.010	<0.00050	<0.0010	<0.0010	<0.010
70	Reba	screen	25-Apr	<0.0010	<0.0010	<0.010	<0.00050	<0.0010	<0.0010	<0.010

SSA study Stormflow Sample Results (mg/l)

Table with columns: Sort, Station, Event, Event Date, Sample Type, Sample Time, 2hr avg (ft), 4hr avg (ft), Sample ID, pH, HCO3, CO3, Hard, TSS, DOC, SO4, Cl, Ca2+, Mg2+, K+, Na2+, d-Cu, TR-Cu, d-Zn, TR-Zn, d-A, d-A6. The table contains 48 rows of data for various stormflow events at different stations.

SSA study Stormflow Sample Results (mg/l)

2/19/02 Preliminary DRAFT

Table with columns: sort, station, event, event date, sample type, rainfall (in), maxent (in/hr), dryent (in/hr), 72hrent (in), 48hrent (in), sample time, SAMPLE ID, pH, alk, HCO3, CO3, hard, TSS, DOC, SO4, Cl-, Ca2+, Mg2+, K+, Na2+, d-Cu, TR-Cu, d-Zn, TR-Zn, d-Al, d-As

SSAdata021902release.xls stormflows

SSA study Stormflow Sample Results (mg/l)

well	station	event	event date	d-Ba	d-Cd	d-Cr	d-Pb	d-Hg	d-Ni	d-Se	d-Ag	d-Th	TR-AI	TR-As	TR-Ba	TR-Cd	TR-Cr	TR-Cu	TR-Pb	TR-Hg	TR-Ni	TR-Se	TR-Ag	TR-Th	
40	MC28h	STMA	14-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
41	SWH1	STMA	14-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
51	SOE4	STMA	14-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
62	SOE3	STMA	14-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
63	SOE4	STMA	14-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
54	DKC04w	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
55	DKC04w	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
56	DKC04w	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
57	DKC04w	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
58	DKC04w	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
59	Febe	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
60	Febe	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
61	Febe	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
62	Febe	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
63	MC28h	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
64	MC28h	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
65	MC28h	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
66	MC28h	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
67	MC28h	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
68	MC28h	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
69	MC28h	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
70	MC28h	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
71	WOC04g	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
72	WOC04g	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
73	WOC04g	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
74	WOC04g	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
75	WOC04g	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
76	WOC04g	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
77	WOC04g	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
78	WOC04g	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
79	WOC04g	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
80	WOC171a	STMB	28-May	<0.0050	<0.0050	<0.0010	<0.0010	<0.010	<0.010																
81	DKC04w	STMC	1-Jun																						
82	DKC04w	STMC	1-Jun																						
83	DKC04w	STMC	1-Jun																						
84	DKC04w	STMC	1-Jun																						
85	DKC04w	STMC	1-Jun																						
86	DKC04w	STMC	1-Jun																						
87	DKC04w	STMC	1-Jun																						
88	Febe	STMC	1-Jun																						
89	Febe	STMC	1-Jun																						
90	Febe	STMC	1-Jun																						
91	Febe	STMC	1-Jun																						
92	Febe	STMC	1-Jun																						
93	Febe	STMC	1-Jun																						
94	MC28h	STMC	1-Jun																						
95	MC28h	STMC	1-Jun																						
96	MC28h	STMC	1-Jun																						
97	MC28h	STMC	1-Jun																						

AR 053391

SSA study Stormflow Sample Results (mg/l)

2/19/02 Preliminary DRUFT

sort	station	event	event date	d-Be	d-Cd	d-Cr	d-Pb	d-Hg	d-N	d-Se	d-Th	TR-AI	TR-Ag	TR-Ba	TR-Cd	TR-Cr	TR-Pb	TR-Hg	TR-Ni	TR-Se	TR-Ag	TR-Th	
97	MAC20h	STMAC	1-Jun																				
98	MAC20h	STMAC	1-Jun																				
99	MAC20h	STMAC	1-Jun																				
100	MAC20h	STMAC	1-Jun																				
101	WOCupS	STMAC	1-Jun																				
102	WOCupS	STMAC	1-Jun																				
103	WOCupS	STMAC	1-Jun																				
104	WOCupS	STMAC	1-Jun																				
105	WOCupS	STMAC	1-Jun																				
106	WOCupH	STMAC	1-Jun																				
107	WOCupH	STMAC	1-Jun																				
108	WOCupH	STMAC	1-Jun																				
109	WOCupH	STMAC	1-Jun																				
110	WOCupH	STMAC	1-Jun																				
111	WOC1714	STMAC	1-Jun																				
112	WOC1714	STMAC	1-Jun																				
113	WOC1714	STMAC	1-Jun																				
114	DME20a	STMAI	28-Nov																				
115	DME20a	STMAI	28-Nov																				
116	DME20a	STMAI	28-Nov																				
117	DME20a	STMAI	28-Nov																				
118	DME20a	STMAI	28-Nov																				
119	DME20a	STMAI	28-Nov																				
120	DME20a	STMAI	28-Nov																				
121	DME20a	STMAI	28-Nov																				
122	DME20a	STMAI	28-Nov																				
123	DME20a	STMAI	28-Nov																				
124	DME20a	STMAI	28-Nov																				
125	DME20a	STMAI	28-Nov																				
126	DME20a	STMAI	28-Nov																				
127	DME20a	STMAI	28-Nov																				
128	DME20a	STMAI	28-Nov																				
129	DME20a	STMAI	28-Nov																				
130	DME20a	STMAI	28-Nov																				
131	DMKOverl	STMAI	28-Nov																				
132	DMKOverl	STMAI	28-Nov																				
133	DMKOverl	STMAI	28-Nov																				
134	DMKOverl	STMAI	28-Nov																				
135	DMKOverl	STMAI	28-Nov																				
136	DMKOverl	STMAI	28-Nov																				
137	DMKOverl	STMAI	28-Nov																				
138	DMKOverl	STMAI	28-Nov																				
139	DMKOverl	STMAI	28-Nov																				
140	DMKOverl	STMAI	28-Nov																				
141	DMKOverl	STMAI	28-Nov																				
142	DMKOverl	STMAI	28-Nov																				
143	DMKOverl	STMAI	28-Nov																				
144	DMKOverl	STMAI	28-Nov																				

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AR 053393

SSA study Stormflow Sample Results (mg/l)

subject to O&M review

cont	station	event	event date	d-Be	d-Cd	d-Cr	d-Pb	d-Hg	d-Ni	d-Se	d-Ag	d-Th	TR-AI	TR-As	TR-Ba	TR-Cd	TR-Cr	TR-Pb	TR-Hg	TR-Ni	TR-Se	TR-Ag	TR-Th
145	DMRC/Chert	STMI	28-Nov																				
146	DMRC/Chert	STMI	28-Nov																				
147	DMRC/Chert	STMI	28-Nov																				
148	HP/Out	STMI	28-Nov																				
149	HP/Out	STMI	28-Nov																				
150	HP/Out	STMI	28-Nov																				
151	HP/Out	STMI	28-Nov																				
152	HP/Out	STMI	28-Nov																				
153	HP/Out	STMI	28-Nov																				
154	HP/Out	STMI	28-Nov																				
155	HP/Out	STMI	28-Nov																				
156	HP/Out	STMI	28-Nov																				
157	HP/Out	STMI	28-Nov																				
158	HP/Out	STMI	28-Nov																				
159	HP/Out	STMI	28-Nov																				
160	HP/Out	STMI	28-Nov																				
161	MC/Wh	STMI	28-Nov																				
162	MC/Wh	STMI	28-Nov																				
163	MC/Wh	STMI	28-Nov																				
164	MC/Wh	STMI	28-Nov																				
165	MC/Wh	STMI	28-Nov																				
166	MC/Wh	STMI	28-Nov																				
167	MC/Wh	STMI	28-Nov																				
168	MC/Wh	STMI	28-Nov																				
169	MC/Wh	STMI	28-Nov																				
170	MC/Wh	STMI	28-Nov																				
171	MC/Wh	STMI	28-Nov																				
172	MC/Wh	STMI	28-Nov																				
173	MC/Wh	STMI	28-Nov																				
174	MC/SSA	STMI	28-Nov																				
175	MC/SSA	STMI	28-Nov																				
176	MC/SSA	STMI	28-Nov																				
177	MC/SSA	STMI	28-Nov																				
178	MC/SSA	STMI	28-Nov																				
179	MC/SSA	STMI	28-Nov																				
180	MC/SSA	STMI	28-Nov																				
181	MC/SSA	STMI	28-Nov																				
182	MC/SSA	STMI	28-Nov																				
183	MC/SSA	STMI	28-Nov																				
184	MC/SSA	STMI	28-Nov																				
185	MC/SSA	STMI	28-Nov																				
186	Reba	STMI	28-Nov																				
187	Reba	STMI	28-Nov																				
188	Reba	STMI	28-Nov																				
189	Reba	STMI	28-Nov																				
190	Reba	STMI	28-Nov																				
191	Reba	STMI	28-Nov																				
192	Reba	STMI	28-Nov																				

AR 053395

SSA study Stormflow Sample Results (mg/l)

stn	station	event	event date	sample type	rainfall (in.)	maxd (in/hr)	Qyent (mg)	72hrent (in)	48hrent (in)	sample time	SAMPLE ID	pH	alk	HCO3	CO3	hard	TSS	DOC	SO4	Cl-	Ca2+	Mg2+	K+	Na2+	d-Cu	TR-Cu	d-Zn	TR-Zn	d-Al	d-Ae
193	Reba	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 7:00	REBAQUT112901-33	6.63	49.4			40.6	3.8	6.82			9.95	3.89			0.0034	0.0038	0.008	0.014		
194	Reba	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 11:00	REBAQUT112901-37	6.63	56.7			55.1	3.5	7.81			13.0	5.50			0.0026	0.0067	0.008	0.014		
195	Reba	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 19:00	REBAQUT112901-41	6.78	50.0			56.5	2.7	6.19			13.5	5.53			<0.001	<0.001	<0.005	0.026		
196	Reba	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 23:00	REBAQUT112901-45	6.67	48.3			60.3	2.6	7.75			14.7	6.74			<0.001	<0.001	<0.005	0.012		
197	Reba	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 3:00	REBAQUT113001-49	6.71	48.2			57.0	2.8	7.94			13.6	5.59			<0.001	<0.001	0.020	0.028		
198	WCupS	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 3:00	WCUPSI12901-4	6.62	113			128	1.0	1.88			20.9	18.1			<0.001	<0.001	<0.005	<0.005		
199	WCupS	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 5:00	WCUPSI12901-7	6.75	113			125	2.0	1.75			22.9	16.6			<0.001	<0.001	<0.005	<0.005		
200	WCupS	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 9:00	WCUPSI12901-11	6.77	76.9			63.4	10	4.20			16.1	10.5			0.0013	0.0017	<0.005	0.007		
201	WCupS	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 13:00	WCUPSI12901-15	6.79	73.1			90.2	15	6.09			17.8	11.1			0.0024	0.0033	<0.005	0.011		
202	WCupS	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 17:00	WCUPSI12901-19	6.86	81.4			90.9	14	6.42			18.3	12.2			0.0026	0.0028	<0.005	0.010		
203	WCupS	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 21:00	WCUPSI12901-23	6.41	86.2			108	1.8	3.81			15.7	14.4			<0.001	0.0011	<0.005	<0.005		
204	WCupS	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 1:00	WCUPSI12901-27	6.46	85.2			98.8	11	3.36			15.7	12.0			<0.001	0.0017	<0.005	<0.005		
205	WCupS	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 5:00	WCUPSI12901-29	6.62	79.2			71.8	7.2	4.68			13.6	9.20			0.0014	0.0018	<0.005	0.008		
206	WCupS	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 9:00	WCUPSI12901-32	6.95	86.4			76.5	9.2	4.42			13.8	10.2			<0.001	0.0014	<0.005	0.005		
207	WCupS	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 13:00	WCUPSI12901-36	6.60	86.8			72.5	2.8	2.34			14.3	8.94			<0.001	0.0015	0.008	0.029		
208	WCupS	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 16:00	WCUPSI12901-39	6.94	84.2			100.7	3.6	6.79			19.2	12.9			<0.001	<0.001	<0.005	<0.005		
209	WCupS	STMI	28-Nov	grab	1.07	0.15	56	0.05	0	11/29/01 22:00	WCUPSI12901-43	6.87	108			116.1	0.57	2.72			20.6	15.7			<0.001	<0.001	<0.005	<0.005		

SSA study Stormflow Sample Results (mg/l)

well	station	event	event date	d-Ba	d-Cd	d-Cr	d-Pb	d-Hg	d-N	d-Se	d-Ag	d-Th	TR-AI	TR-As	TR-Ba	TR-Cd	TR-Cr	TR-Pb	TR-Hg	TR-N	TR-Se	TR-Ag	TR-Th
153	Flaha	STMI	28-Nov																				
154	Flaha	STMI	28-Nov																				
155	Flaha	STMI	28-Nov																				
156	Flaha	STMI	28-Nov																				
157	Flaha	STMI	28-Nov																				
158	WCups	STMI	28-Nov																				
159	WCups	STMI	28-Nov																				
200	WCups	STMI	28-Nov																				
201	WCups	STMI	28-Nov																				
202	WCups	STMI	28-Nov																				
203	WCups	STMI	28-Nov																				
204	WCups	STMI	28-Nov																				
205	WCups	STMI	28-Nov																				
206	WCups	STMI	28-Nov																				
207	WCups	STMI	28-Nov																				
208	WCups	STMI	28-Nov																				
209	WCups	STMI	28-Nov																				

SSA Study QC Sample Results

Field Eqpt BLANKS										
station	event	event date	sample date	sample type	SAMPLE ID	pH	alk	hard	TSS	DOC
Reba	n/a	12-Jun	6/12/01 13:55	grab	REBAOUT061201-B	5.82		<1.00	n/a	
DME	BF1	17-Aug	8/17/01 14:04	grab	DMESSA081701BLANK	4.92	1.80	<1.00	n/a	<0.25C
MC8th	BF2	20-Sep	9/20/01 10:44	grab	MC8TH092001-BLANK	5.42	1.80	<1.00	n/a	<0.25C
MC8th	BF3	4-Oct	10/4/01 12:46	grab	MC8TH100401BLANK	5.03	1	<1.00	n/a	0.617
n/a	Storm1	28-Nov	11/30/01 11:35	grab	SSA113001-B1	4.07	<1.00	<0.700	n/a	<0.25
n/a	Storm1	28-Nov	11/30/01 11:36	grab	SSA113001-B2	3.98	<1.00	<0.700	n/a	<0.25
n/a	Storm1	28-Nov	11/30/01 11:37	grab	SSA113001-B3	3.93	<1.00	<0.700	n/a	<0.25
n/a	Storm1	28-Nov	11/30/01 11:38	grab	SSA113001-B4	3.90	<1.00	<0.700	n/a	0.391
Field Eqpt DUPES										
station	event	event date	sample date	sample type	SAMPLE ID	pH	alk	HCO3	CO3	hard
Reba	STMA	14-May	5/14/01 9:14	grab	REBAOUT051501-24 DU	7.34	117	106.0	<1.00	111
Reba	STMA	14-May	5/14/01 9:14	grab	REBAOUT051501-24	7.34	120	108.4	<1.00	110
DMKCweir	BF1	17-Aug	8/17/01 13:41	grab	DMKCWEIR081701-DUP	7.14	95.2			102
DMKCweir	BF1	17-Aug	8/17/01 13:39	grab	DMKCWEIR081701	7.00	91.8			105
MC8th	BF2	20-Sep	9/20/01 10:50	grab	MC8TH092001-DUPE	7.42	134			133
MC8th	BF2	20-Sep	9/20/01 10:47	grab	MC8TH092001	7.64	130			136
WCupS	BF3	3-Oct	10/3/01 12:34	grab	WCUPS100301DUP	7.01	120			120
WCupS	BF3	3-Oct	10/3/01 12:34	grab	WCUPS100301	7.01	120			122

SSA Study QC Sample Results

Field Eqpt BLANKS											
station	event	event date	Ca2+	Mg2+	d-Cd	d-Cu	d-Pb	d-Ni	d-Zn	TR-Cd	TR-Cu
Reba	n/a	12-Jun			<0.00050	<0.0010	<0.0010	<0.010	0.006	<0.00050	<0.0010
DME	BF1	17-Aug	<0.100	<0.100		<0.0010			<0.005		<0.0010
MC8th	BF2	20-Sep	<0.100	<0.100		<0.0010			<0.005		<0.0010
MC8th	BF3	4-Oct	<0.100	<0.100		<0.0010			<0.005		<0.0010
n/a	Storm1	28-Nov	<0.100	<0.100		<0.0010			<0.005		<0.0010
n/a	Storm1	28-Nov	<0.100	<0.100		<0.0010			<0.005		<0.0010
n/a	Storm1	28-Nov	<0.100	<0.100		<0.0010			0.007		<0.0010
n/a	Storm1	28-Nov	<0.100	<0.100		<0.0010			<0.005		<0.0010
Field Eqpt DUPES											
station	event	event date	TSS	DOC	SO4	Cl-	Ca2+	Mg2+	K+	Na2+	d-Cd
Reba	STMA	14-May	43	7.49	7.39	2.50	23.9	13.9	3.55	7.95	<0.00050
Reba	STMA	14-May	11	7.39	7.91	2.40	23.1	12.8	1.99	7.67	<0.00050
DMKCweir	BF1	17-Aug	0.71	2.91			24.6	9.75			
DMKCweir	BF1	17-Aug	1.0	2.87			18.5	11.7			
MC8th	BF2	20-Sep	1.7	4.44			22.8	18.1			
MC8th	BF2	20-Sep	1.8	4.40			21.6	18.3			
WCupS	BF3	3-Oct	1.0	0.916			20.2	19.6			
WCupS	BF3	3-Oct	1.3	0.970			20.3	19.5			

Field Eqpt BLANKS										
station	event	event date	TR-Pb	TR-NI	TR-Zn					
Reba	n/a	12-Jun	<0.0010	<0.010	0.036					
DME	BF1	17-Aug			<0.005					
MC8th	BF2	20-Sep			<0.005					
MC8th	BF3	4-Oct			<0.005					
n/a	Storm1	28-Nov			<0.005					
n/a	Storm1	28-Nov			<0.005					
n/a	Storm1	28-Nov			0.005					
n/a	Storm1	28-Nov			<0.005					
Field Eqpt DUPES										
station	event	event date	d-Cu	d-Pb	d-NI	d-Zn	TR-Cd	TR-Cu	TR-Pb	TR-NI
Reba	STMA	14-May	0.0019	<0.0010	<0.010	0.006	<0.00050	0.0026	<0.0010	<0.010
Reba	STMA	14-May	0.0021	<0.0010	<0.010	0.005	<0.00050	0.0012	<0.0010	<0.010
DMKCweir	BF1	17-Aug	<0.0010			<0.005		0.0011		
DMKCweir	BF1	17-Aug	<0.0010			<0.005		0.0015		
MC8th	BF2	20-Sep	<0.0010			<0.005		<0.0010		
MC8th	BF2	20-Sep	<0.0010			<0.005		<0.0010		
WCupS	BF3	3-Oct	<0.0010			<0.005		<0.0010		
WCupS	BF3	3-Oct	<0.0010			<0.005		<0.0010		

Field Eqpt BLANKS			
station	event	event date	
Reba	n/a	12-Jun	
DME	BF1	17-Aug	
MC8th	BF2	20-Sep	
MC8th	BF3	4-Oct	
n/a	Storm1	28-Nov	
n/a	Storm1	28-Nov	
n/a	Storm1	28-Nov	
n/a	Storm1	28-Nov	
Field Eqpt DUPES			
station	event	event date	TR-Zn
Reba	STMA	14-May	0.013
Reba	STMA	14-May	0.015
DMKCweir	BF1	17-Aug	<0.005
DMKCweir	BF1	17-Aug	<0.005
MC8th	BF2	20-Sep	<0.005
MC8th	BF2	20-Sep	<0.005
WCupS	BF3	3-Oct	<0.005
WCupS	BF3	3-Oct	<0.005