TABLE DR1. SITE DESCRIPTIONS AND LOCATIONS

#	Sample code	Description	Date	E (UTM) NAD 83	N (UTM) NAD 83	Elev. (m)
1	VH02BE01	Unnamed cold spring	20010709	592719	4883853	1746
2	VH03BE01	Hinton Creek	20010709	592962	4883541	1742
3	VH04BE01	Unnamed cold spring	20010709	593209	4883854	1771
4	VH05BE01	Indian Holes spring in lower meadow	20010710	591460	4882904	1483
5	VH06BE01	Separation Creek	20010710	591927	4883280	1525
6	VH07BE01	Indian Holes spring on hillside	20010710	591802	4883271	1525
7	VH08BE01	Cold spring near Separation Meadows	20010711	592754	4884069	1737
8	VH09BE01	Unnamed cold spring	20010711	594394	4883797	1855
9	VH10BE01	Gassy cold spring at upper end of Mesa Meadows	20010711	594984	4881489	1755
10	VH11BE01	Large-discharge cold spring at base of Mesa Meadows	20010712	593683	4881598	1687
11	VH20RM01	Cold spring low on Separation Creek	20010712	587550	4881610	1110
12	VH21RM01	Cold spring low on Separation Creek	20010712	587500	4881590	1110
13	VH22RM01	Separation Creek at foot bridge	20010712	584623	4881340	957
14	VH23KL01	Separation Creek at gaged site 200 m below bridge	20010725	584534	4881340	952
15	VH27BE01	Soda spring	20010715	604452	4877148	1800
16	VH50RM01	Unnamed cold spring	20011013	598072	4877067	1751
17	VH51RM01	Unnamed cold spring	20011013	599201	4876953	1724
18	VH52RM01	Unnamed cold spring	20011013	596628	4875159	1720
19	VH53RM01	Unnamed cold spring	20011013	596752	4875513	1707
20	VH54RM01	Spring on Fall Creek	20011015	600554	4879500	1835
21	VH55RM01	Unnamed cold spring	20011015	600843	4882628	2003
22	VH56RM01	Unnamed cold spring	20011015	601741	4882846	2000
23	VH57RM01	Unnamed cold spring	20011015	600683	4883033	2138
24	VH58RM01	Unnamed cold spring	20011015	601283	4880091	1945
25	VH59RM01	Cold spring at head of Satan Creek	20011016	599830	4876248	1660
26	VH60RM01	Unnamed cold spring	20011016	600490	4876224	1660
27	VH61RM01	Quinn Meadows spring	20011016	598250	4872394	1548
28	VH62RM01	Linton Creek at Linton Lake	20011016	588575	4890778	1080
29	VH63RM01	Unnamed cold spring	20011016	588768	4890875	1072
30	VH64RM01	Spring above Proxy Falls	20011017	586140	4890368	1100
31	VH65RM01	White Branch Youth Camp well	20011017	582502	4890513	756
32	VH66RM01	High-discharge spring on White Creek	20011017	578515	4890198	590
33	TS28RM02	White Branch Youth Camp Well	20020511	582595	4890397	750
34	TS29BE02	Belknap Hot Springs	20020510	575880	4893787	508
35	TS30RM02	Terwilliger Hot Springs	20020510	560950	4881384	550
36	TS31BE02	Bigelow Hot Springs	20020511	575080	4898686	565
37	TS32RM02	Cold spring low on Separation Creek	20020510	587265	4881220	1030
38	TS34BE02	Icecap spring	20020512	579875	4910632	840
39	TS36BE02	Lost Creek spring	20020510	578511	4890238	590
40	TS37BE02	Cold spring above Deer Creek	20020512	571911	4904879	910
41	TS100RM02	Large-discharge cold spring at base of Mesa Meadows	20020729	593671	4881591	1687
42	TS101RM02	Indian Holes spring in lower meadow	20020730	591460	4882904	1483
43	TS102RM02	Indian Holes spring on hillside	20020730	591841	4883246	1517
44	TS103RM02	Upper Honey Creek	20020730	590859	4883186	1466
45	TS104RM02	Upper Honey Creek spring	20020730	591304	4883458	1618
46	TS105RM02	Main spring at start of Mesa Creek	20020731	595236	4881562	1800
47	TS106RM02	Highest spring above Mesa Meadows	20020731	594954	4881581	1788
48	TS107RM02	Spring above Mesa Meadows	20020731	594967	4881561	1778
49	TS108RM02	Highest spring at headwaters of Hinton Creek	20020731	594605	4883647	1900
50	TS109RM02	Lower spring at headwaters of Hinton Creek	20020731	594400	4883789	1856
51	TS110RM02	Middle spring at headwaters of Hinton Creek	20020731	594551	4883699	1872
52	TS111RM02	Small spring at edge of Linton Springs group	20020801	593767	4887274	1820
53	TS112RM02	Spring in Linton Meadows	20020801	593393	4886955	1793
54	TS113RM02	Spring above Nash Lake	20020802	590477	4877833	1581
55	TS114RM02	Spring north of Sisters Spring	20020801	594813	4891777	2024
56	TS115RM02	Sisters Spring	20020801	594702	4891353	2010
57	TS116RM02	Dilute spring at Mesa Meadows	20020802	594789	4881584	1763
58	TS117RM02	Gassy cold spring at upper end of Mesa Meadows	20020802	594938	4881456	1750
59	TS118RM02	Mesa Springs	20020802	594200	4880967	1745
60	TS119RM02	Separation Creek at Horse Creek	20020804	577392	4886050	635
61	TS120RM02	Seep at south end of Linton Lake	20020804	588766	4890845	1080
62	TS121RM02	Belknap Hot Spring	20020804	575892	4893795	508
63	TS122RM02	Spring near Foley ridge trailhead	20020805	581844	4887292	1060
64	TS123RM02	Headwaters of the Metolius River	20020805	608400	4920966	910
65	TS124RM02	Squaw Creek at gage site	20020805	614512	4898903	1073
66	TS125RM02	Melvin Spring	20020805	611454	4894382	1316
67	TS126RM02	Pole Creek Spring	20020805	604031	4893416	1610
68	TS127RM02	Spring River headwaters	20020805	622316	4857872	1275
69	TS128RM02	Snow Creek Spring	20020805	599060	4859316	1425

TABLE DR2. FIELD MEASUREMENTS AND CARBON DATA

#	Sample code	Temp. (C)	Sp. cond. (µS/cm)	Diss. O_2 (mg/L)	pH	Alkalinity (mmol/L)	H_2CO_3 (mmol/L)	DIC calc. (mmol/L)	DIC meas. (mmol/L)
1	VH02BE01	2.9	56	10.3	6.05	0.44	1.38	1.82	N.D.
2	VH03BE01	8.6	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
3	VH04BE01	2.7	63	11.6	N.D.	N.D.	N.D.	N.D.	N.D.
4	VH05BE01	7.8	228	8.6	8.04	1.39	0.04	1.43	1.47
5	VH06BE01	6.8	68	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
6	VH07BE01	5.5	173	10.6	7.80	1.47	0.07	1.55	1.56
7	VH08BE01	2.8	44	10.5	6.43	0.44	0.57	1.02	1.16
8	VH09BE01	2.8	64	10.2	5.60	0.48	4.16	4.64	4.24
9	VH10BE01	7.8	217	5.5	8.03	1.52	0.04	1.57	1.54
10	VH11BE01	3.5	90	N.D.	7.60	0.64	0.05	0.69	0.68
11	VH20RM01	11.2	180	N.D.	8.65	1.39	0.01	1.4	1.31
12	VH21RM01	9.2	130	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
13	VH22RM01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
14	VH23KL01	7.4	83	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
15	VH27BE01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
16	VH50RM01	2.6	43	11.2	~7.4	0.33	0.05	0.37	N.D.
17	VH51RM01	2.5	47	10.8	~8.4	0.29	0.00	0.30	N.D.
18	VH52RM01	4.8	53	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
19	VH53RM01	2.7	56	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
20	VH54RM01	1.7	22	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
21	VH55RM01	2.3	24	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
22	VH56RM01	3.0	62	N.D.	6.91	N.D.	N.D.	N.D.	N.D.
23	VH57RM01	N.D.	16	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
24	VH58RM01	3.3	61	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
25	VH59RM01	2.4	34	10.8	7.6	0.25	0.02	0.27	N.D.
26	VH60RM01	3.4	63	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
27	VH61RM01	3.4	62	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
28	VH62RM01	N.D.	53	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
29	VH63RM01	4.4	96	N.D.	8.72	0.62	0.00	0.63	N.D.
30	VH64RM01	4	69	N.D.	7.2	0.48	0.1	0.57	0.50
31	VH65RM01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
32	VH66RM01	6.5	87	N.D.	7.3	0.48	0.07	0.55	N.D.
33	TS28RM02	14.2	306	4.4	8.79	1.11	0.00	1.12	1.10
34	TS29BE02	89.0	N.D.	N.D.	N.D.	0.33	N.D.	N.D.	0.29
35	TS30RM02	46.0	N.D.	N.D.	N.D.	0.33	N.D.	N.D.	0.16
36	TS31BE02	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
37	TS32RM02	10.8	180	10.5	8.60	1.38	0.01	1.39	1.32
38	TS34BE02	4.5	50	11.7	7.83	0.46	0.02	0.48	0.51
39	TS36BE02	6.7	55	11.2	7.44	0.51	0.06	0.57	0.52
40	TS37BE02	6.8	68	11.5	6.96	0.66	0.22	0.88	0.84
41	TS100RM02	3.3	67	10.8	7.42	0.54	0.07	0.61	0.61
42	TS101RM02	7.6	228	8.3	8.14	1.43	0.03	1.46	1.45
43	TS102RM02	5.0	191	10.9	8.04	1.66	0.05	1.70	1.67
44	TS103RM02	6.0	114	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
45	TS104RM02	3.5	112	11.2	7.28	1.07	0.19	1.25	1.23
46	TS105RM02	3.1	56	11.2	6.87	0.38	0.17	0.55	0.50
47	TS106RM02	5.0	112	10.5	7.81	0.80	0.04	0.84	0.81
48	TS107RM02	5.7	132	N.D.	N.D.	0.95	N.D.	N.D.	N.D.
49	TS108RM02	3.8	51	10.0	6.13	0.38	0.95	1.32	1.37
50	TS109RM02	2.8	60	10.6	5.69	0.44	3.15	3.59	4.13
51	TS110RM02	2.5	55	10.7	5.77	0.39	2.33	2.72	3.16
52	TS111RM02	2.2	31	11.6	7.56	0.29	0.03	0.32	0.34
53	TS112RM02	2.1	22	12.6	6.03	0.21	0.70	0.91	0.39
54	TS113RM02	2.8	37	11.3	7.37	0.36	0.05	0.41	0.43
55	TS114RM02	1.9	11.7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
56	TS115RM02	1.7	13.2	N.D.	7.08	N.D.	N.D.	N.D.	N.D.
57	TS116RM02	2.5	39	9.4	7.04	0.34	0.11	0.45	0.43
58	TS117RM02	7.6	210	5.5	8.01	1.52	0.04	1.57	1.56
59	TS118RM02	2.0	69	N.D.	N.D.	0.64	N.D.	N.D.	N.D.
60	TS119RM02	N.D.	N.D.	N.D.	N.D.	0.64	N.D.	N.D.	0.65
61	TS120RM02	4.1	63	N.D.	7.75	0.59	0.03	0.62	0.56
62	TS121RM02	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
63	TS122RM02	4.0	51	10.6	7.48	0.49	0.05	0.55	0.54
64	TS123RM02	8.7	124	N.D.	7.71	1.23	0.07	1.30	1.31
65	TS124RM02	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
66	TS125RM02	5.0	93	N.D.	7.03	0.95	0.28	1.23	1.20
67	TS126RM02	3.4	71	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
68	TS127RM02	7.5	100	N.D.	8.14	0.92	0.02	0.94	0.94
69	TS128RM02	6.1	38	N.D.	7.47	0.36	0.04	0.40	0.40

TABLE DR3. ANION DATA

#	Sample code	Date	F (mg/L)	Cl (mg/L)	Br (mg/L)	NO_3 (mg/L)	PO_4 (mg/L)	SO_4 (mg/L)
1	VH02BE01	20010709	0.06	1.54	0.005	0.01	0.025	2.1
2	VH03BE01	20010709	0.06	1.58	0.004	<0.01	0.018	2.9
3	VH04BE01	20010709	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4	VH05BE01	20010710	0.22	20.5	0.056	<0.01	0.154	6.8
5	VH06BE01	20010710	0.08	2.1	0.006	<0.01	0.057	2.1
6	VH07BE01	20010710	0.20	7.4	0.020	<0.01	0.21	2.9
7	VH08BE01	20010711	0.06	0.85	0.003	<0.01	0.057	1.03
8	VH09BE01	20010711	0.06	2.2	0.006	<0.01	<0.01	4.1
9	VH10BE01	20010711	0.36	7.0	0.021	<0.01	0.34	18
10	VH11BE01	20010712	0.18	3.3	0.010	0.01	0.087	5.6
11	VH20RM01	20010712	0.09	12.6	0.035	0.03	0.053	3.0
12	VH21RM01	20010712	0.06	6.7	0.018	0.01	0.049	1.66
13	VH22RM01	20010712	0.07	3.0	0.003	<0.01	0.072	1.62
14	VH23KL01	20010725	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
15	VH27BE01	20010715	0.32	5.3	0.013	<0.01	<0.01	16.7
16	VH50RM01	20011013	0.08	0.3	<0.02	<0.01	0.07	0.3
17	VH51RM01	20011013	0.1	0.3	<0.02	<0.01	0.06	0.2
18	VH52RM01	20011013	<0.05	0.2	<0.02	<0.01	<0.02	0.2
19	VH53RM01	20011013	<0.05	0.2	<0.02	<0.01	<0.02	0.3
20	VH54RM01	20011015	0.09	0.2	<0.02	<0.01	0.02	0.2
21	VH55RM01	20011015	0.05	0.2	<0.02	<0.01	0.02	0.1
22	VH56RM01	20011015	0.05	0.2	<0.02	<0.01	0.03	0.1
23	VH57RM01	20011015	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
24	VH58RM01	20011015	<0.05	0.2	<0.02	<0.01	0.04	2.7
25	VH59RM01	20011016	0.08	0.3	<0.02	<0.01	0.04	0.3
26	VH60RM01	20011016	0.07	0.4	<0.02	<0.01	0.06	0.7
27	VH61RM01	20011016	0.08	0.6	<0.02	<0.01	0.06	2.2
28	VH62RM01	20011016	0.06	0.3	<0.02	<0.01	0.07	0.7
29	VH63RM01	20011016	0.1	1.4	<0.02	<0.01	0.09	1.5
30	VH64RM01	20011017	<0.05	0.4	<0.02	<0.01	0.07	0.1
31	VH65RM01	20011017	0.06	55	<0.02	<0.01	0.02	3.6
32	VH66RM01	20011017	0.05	1.6	<0.02	<0.01	0.04	1.2
33	TS28RM02	20020511	<0.05	56	0.169	<0.010	0.023	3.6
34	TS29BE02	20020510	1.02	1250	3.6	0.11	<0.2	164
35	TS30RM02	20020510	<1	728	1.82	<0.2	<0.4	232
36	TS31BE02	20020511	<1	724	1.98	<0.2	<0.4	172
37	TS32RM02	20020510	0.067	12.4	0.032	0.012	0.05	3.0
38	TS34BE02	20020512	0.061	0.62	<0.020	<0.010	0.04	0.67
39	TS36BE02	20020510	0.052	2	<0.020	<0.010	0.036	0.98
40	TS37BE02	20020512	<0.05	0.61	<0.020	<0.010	<0.020	0.32
41	TS100RM02	20020729	0.106	2.6	0.006	<0.005	0.077	4.4
42	TS101RM02	20020730	0.2	21.7	0.057	<0.005	0.164	7.1
43	TS102RM02	20020730	0.2	8.8	0.028	<0.005	0.22	3.5
44	TS103RM02	20020730	0.129	4.1	0.011	<0.005	0.167	1.92
45	TS104RM02	20020730	0.141	4.4	0.013	<0.005	0.172	1.98
46	TS105RM02	20020731	<0.05	1.03	0.002	<0.005	0.019	5.8
47	TS106RM02	20020731	0.109	3.3	0.011	<0.005	0.175	9.4
48	TS107RM02	20020731	0.121	4	0.012	<0.005	0.191	11.6
49	TS108RM02	20020731	0.076	2.4	0.008	<0.005	0.037	3.4
50	TS109RM02	20020731	0.062	2.1	0.007	<0.005	<0.005	3.6
51	TS110RM02	20020731	0.069	1.83	0.005	<0.005	0.023	3.5
52	TS111RM02	20020801	0.076	0.186	<0.002	<0.005	0.104	0.67
53	TS112RM02	20020801	<0.05	0.181	<0.002	<0.005	0.008	0.24
54	TS113RM02	20020802	<0.05	0.25	<0.002	<0.005	0.025	0.192
55	TS114RM02	20020801	<0.05	0.159	<0.002	<0.005	0.006	0.185
56	TS115RM02	20020801	<0.05	0.161	<0.002	<0.005	0.007	0.197
57	TS116RM02	20020802	<0.05	0.46	0.002	<0.005	0.051	1.79
58	TS117RM02	20020802	0.33	6.8	0.021	<0.005	0.34	18.1
59	TS118RM02	20020802	0.071	0.61	<0.002	<0.005	0.095	1.93
60	TS119RM02	20020804	0.061	2	0.003	<0.005	0.066	1.16
61	TS120RM02	20020804	0.097	1.25	0.003	<0.005	0.099	1.41
62	TS121RM02	20020804	1.02	1288	3.6	0.11	<0.2	164
63	TS122RM02	20020805	<0.05	0.56	0.003	<0.005	0.062	0.24
64	TS123RM02	20020805	0.096	1.66	0.005	<0.005	0.085	0.82
65	TS124RM02	20020805	0.051	0.27	<0.002	<0.005	0.03	0.64
66	TS125RM02	20020805	0.062	0.42	<0.002	<0.005	0.086	0.172
67	TS126RM02	20020805	<0.05	0.2	<0.020	<0.010	0.073	0.102
68	TS127RM02	20020805	0.073	2.4	<0.020	0.038	0.125	0.93
69	TS128RM02	20020805	0.054	0.29	<0.020	<0.010	0.056	0.52

TABLE DR4. ISOTOPIC DATA

#	Sample code	Date	δD (SMOW)	$\delta^{18}O$ (SMOW)	Tritium (TU)	$\delta^{13}C$ in DIC (PDB)	^{14}C (%-modern)	$^{3}He/^{4}He$ (R_C/R_A)
1	VH02BE01	20010709	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
2	VH03BE01	20010709	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
3	VH04BE01	20010709	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4	VH05BE01	20010710	-99	-13.5	3.1	-11.49	22.2	7.4
5	VH06BE01	20010710	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
6	VH07BE01	20010710	-98	-13.7	7.0	-9.72	31.5	N.D.
7	VH08BE01	20010711	N.D.	N.D.	N.D.	-10.00	N.D.	N.D.
8	VH09BE01	20010711	-98	-13.8	N.D.	-9.30	5.85	N.D.
9	VH10BE01	20010711	-100	-14	5.4	-9.03	10.3	8.6
10	VH11BE01	20010712	-96	-13.4	6.2	-11.43	N.D.	N.D.
11	VH20RM01	20010712	-97	-13.4	0.2	-11.59	N.D.	N.D.
12	VH21RM01	20010712	-96	-13.2	N.D.	N.D.	N.D.	N.D.
13	VH22RM01	20010712	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
14	VH23KL01	20010725	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
15	VH27BE01	20010715	N.D.	N.D.	N.D.	-9.84	1.11	4.6
16	VH50RM01	20011013	-98	-13.7	N.D.	N.D.	N.D.	N.D.
17	VH51RM01	20011013	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
18	VH52RM01	20011013	-99	-13.7	N.D.	N.D.	N.D.	N.D.
19	VH53RM01	20011013	-97	-13.7	N.D.	N.D.	N.D.	N.D.
20	VH54RM01	20011015	-101	-13.9	N.D.	N.D.	N.D.	N.D.
21	VH55RM01	20011015	-101	-14.2	N.D.	N.D.	N.D.	N.D.
22	VH56RM01	20011015	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
23	VH57RM01	20011015	-102	-14.2	N.D.	N.D.	N.D.	N.D.
24	VH58RM01	20011015	-101	-14.3	N.D.	N.D.	N.D.	N.D.
25	VH59RM01	20011016	-99	-13.8	N.D.	N.D.	N.D.	N.D.
26	VH60RM01	20011016	-102	-14.2	N.D.	N.D.	N.D.	N.D.
27	VH61RM01	20011016	-97	-13.7	N.D.	N.D.	N.D.	N.D.
28	VH62RM01	20011016	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
29	VH63RM01	20011016	-91	-13	N.D.	N.D.	N.D.	N.D.
30	VH64RM01	20011017	-89	-12.6	N.D.	-16.57	114.1	N.D.
31	VH65RM01	20011017	-96	-13.6	N.D.	N.D.	N.D.	N.D.
32	VH66RM01	20011017	-91	-12.8	N.D.	N.D.	N.D.	N.D.
33	TS28RM02	20020511	-96	-13.5	N.D.	-13.02	27.18	6.8
34	TS29BE02	20020510	-93	-11.7	N.D.	N.D.	N.D.	5.2
35	TS30RM02	20020510	-88	-12.1	N.D.	N.D.	N.D.	4.4
36	TS31BE02	20020511	N.D.	N.D.	N.D.	N.D.	N.D.	4.7
37	TS32RM02	20020510	-95	-13.4	N.D.	-11.58	25.57	7.0
38	TS34BE02	20020512	-86	-12.4	N.D.	-15.14	101.6	N.D.
39	TS36BE02	20020510	-88	-12.7	N.D.	-14.20	87.6	N.D.
40	TS37BE02	20020512	-81	-11.6	N.D.	-15.31	105.5	N.D.
41	TS100RM02	20020729	-95	-13.4	N.D.	N.D.	N.D.	2.4
42	TS101RM02	20020730	-97	-13.8	N.D.	-11.47	22.04	7.7
43	TS102RM02	20020730	N.D.	N.D.	N.D.	-8.96	20.41	N.D.
44	TS103RM02	20020730	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
45	TS104RM02	20020730	-95	-13.5	N.D.	-11.78	28.8	N.D.
46	TS105RM02	20020731	-96	-13.6	N.D.	-10.52	N.D.	N.D.
47	TS106RM02	20020731	-98	-13.9	N.D.	-9.12	N.D.	N.D.
48	TS107RM02	20020731	-99	-14	N.D.	N.D.	N.D.	N.D.
49	TS108RM02	20020731	-97	-13.8	N.D.	-8.07	N.D.	N.D.
50	TS109RM02	20020731	-98	-13.8	N.D.	-9.53	6.75	N.D.
51	TS110RM02	20020731	-98	-13.7	N.D.	-9.32	7.61	6.7
52	TS111RM02	20020801	-97	-13.8	N.D.	-11.54	N.D.	N.D.
53	TS112RM02	20020801	-96	-13.6	N.D.	-20.42	110.44	2.7
54	TS113RM02	20020802	-91	-12.9	N.D.	-16.15	108.96	N.D.
55	TS114RM02	20020801	-96	-13.7	N.D.	N.D.	N.D.	N.D.
56	TS115RM02	20020801	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
57	TS116RM02	20020802	-96	-13.6	N.D.	-15.43	87.52	N.D.
58	TS117RM02	20020802	-99	-14	N.D.	-9.04	10.45	7.7
59	TS118RM02	20020802	-96	-13.4	N.D.	N.D.	N.D.	N.D.
60	TS119RM02	20020804	-94	-13.1	N.D.	-5.71	96.08	N.D.
61	TS120RM02	20020804	-91.2	-13	N.D.	-14.01	60.36	5.2
62	TS121RM02	20020804	N.D.	N.D.	N.D.	N.D.	N.D.	5.1
63	TS122RM02	20020805	-89	-12.8	N.D.	-17.21	96.19	2.2
64	TS123RM02	20020805	-107	-14.5	N.D.	-11.90	61.76	2.4
65	TS124RM02	20020805	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
66	TS125RM02	20020805	-109	-14.6	N.D.	-16.26	105.75	3.7
67	TS126RM02	20020805	-106	-14.23	N.D.	N.D.	N.D.	N.D.
68	TS127RM02	20020805	-106	-14.4	N.D.	-11.71	67.33	3.5
69	TS128RM02	20020805	-101	-14	N.D.	-13.30	109.18	3.0

TABLE DR5. CATION DATA

#	Sample code	Date	Na (mg/L)	K (mg/L)	Ca (mg/L)	Mg (mg/L)	Fe (mg/L)	SiO_2 (mg/L)	B (µg/L)	Ba (µg/L)	Sr (µg/L)	Li (µg/L)
1	VH02BE01	20010709	5.49	1.31	2.73	2.28	<0.02	34.7	25	4.79	16.2	10.4
2	VH03BE01	20010709	5.12	1.03	2.27	1.93	<0.02	30.6	26	3.71	14.7	10.8
3	VH04BE01	20010709	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4	VH05BE01	20010710	35.9	2.92	6.23	5.45	<0.02	36.3	300	4.94	51.8	14.9
5	VH06BE01	20010710	6.82	1.32	2.72	3.53	<0.02	35.4	33	3.39	17.1	10.7
6	VH07BE01	20010710	15.8	2.17	5.22	12.2	<0.02	45.1	99	2.58	40	18.7
7	VH08BE01	20010711	4.48	1.28	2.44	1.82	<0.02	33	14	2.27	12.4	6
8	VH09BE01	20010711	6.29	1.11	3.0	2.68	0.06	32.3	36	5.31	17.6	15.4
9	VH10BE01	20010711	34.9	3.07	4.57	7.23	<0.02	41.2	151	2.36	31.9	36.3
10	VH11BE01	20010712	15.4	1.87	1.75	2.03	<0.02	27.7	80	1.23	13.5	23.9
11	VH20RM01	20010712	29.2	4.03	6.85	3.49	<0.02	33.2	68	3.47	58.5	3.6
12	VH21RM01	20010712	19.3	3.08	5.87	3.09	<0.02	30.9	42	2.29	45.8	2.4
13	VH22RM01	20010712	8.61	1.7	3.99	3.81	<0.02	33	40	1.98	26.3	7.1
14	VH23KL01	20010725	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
15	VH27BE01	20010715	54.5	4.28	51.8	42.1	29.4	98	74	85.7	273	54.1
16	VH50RM01	20011013	2.98	1.21	1.1	1.1	<0.01	31.1	7	0.664	4.73	20
17	VH51RM01	20011013	3	0.999	1.76	1.24	<0.01	29.2	5	0.286	8.58	13.9
18	VH52RM01	20011013	2.33	0.841	3.24	1.36	<0.01	23.5	2	0.5	18	2.07
19	VH53RM01	20011013	3.09	1.28	3.2	1.1	0.023	32.6	2	0.684	18.5	1.51
20	VH54RM01	20011015	1.95	0.6	0.503	0.312	<0.01	21.4	4	0.409	1.85	16.2
21	VH55RM01	20011015	1.88	0.846	0.848	0.31	<0.01	23	2	0.479	2.91	4.72
22	VH56RM01	20011015	2.57	0.503	3.4	1.85	<0.01	22.3	<1	1.23	12.5	0.49
23	VH57RM01	20011015	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
24	VH58RM01	20011015	3.59	1.14	3.2	1.17	0.02	27.9	<1	1.18	15.1	0.55
25	VH59RM01	20011016	2.58	0.857	1.06	0.722	0.016	28	4	0.367	4.51	17.6
26	VH60RM01	20011016	4.62	1.12	2.95	1.24	<0.01	31.1	5	0.415	13.3	4.04
27	VH61RM01	20011016	6.01	1.19	1.58	1.22	<0.01	30.4	13	0.838	9.59	17.8
28	VH62RM01	20011016	4.11	0.91	2.67	1.29	<0.01	28.4	2	1.01	11.8	1.71
29	VH63RM01	20011016	7.69	1.43	3.78	2.25	<0.01	25	14	0.404	20.6	0.89
30	VH64RM01	20011017	3.4	2.09	4.04	1.41	<0.01	38.2	1	0.744	26.7	0.74
31	VH65RM01	20011017	N.D.	3.31	6.84	4.7	0.08	25.1	141	3.86	61.4	12.4
32	VH66RM01	20011017	5.45	1.19	3.51	1.94	<0.01	25.6	7	0.731	20.4	1.85
33	TS28RM02	20020511	43.4	3.2	6.53	4.56	<0.09	24.8	160	4.72	72.4	12.5
34	TS29BE02	20020510	658	16	200	0.38	1	109	5900	94.5	1500	958
35	TS30RM02	20020510	377	7	190	0.16	<0.9	57	4800	10.9	1480	474
36	TS31BE02	20020511	370	9	103	1.48	<0.9	66	3100	24.8	824	560
37	TS32RM02	20020510	24.9	3.9	6.52	3.12	<0.09	31.5	90	3.93	63.4	3.6
38	TS34BE02	20020512	3.72	1.11	3.58	1.74	<0.009	25.7	3	0.768	22.6	0.43
39	TS36BE02	20020510	5.53	1.11	3.07	1.62	<0.009	25.3	10	0.773	21.5	1.86
40	TS37BE02	20020512	2.56	0.76	7.42	2.54	0.018	21.9	2	1.55	57.2	0.09
41	TS100RM02	20020729	10.8	1.49	1.41	1.44	<0.009	23.8	62	0.974	11.7	20.2
42	TS101RM02	20020730	33.4	2.9	5.85	4.31	<0.09	34.4	340	6.16	57.2	14.6
43	TS102RM02	20020730	16.9	2.2	5.25	12	<0.09	44.8	130	3.23	48.1	18.4
44	TS103RM02	20020730	10.1	1.8	3.22	7.55	<0.09	42.7	60	2.69	27.8	13.5
45	TS104RM02	20020730	10.7	1.9	3.4	8.04	<0.09	44.1	70	2.43	29.1	14.7
46	TS105RM02	20020731	7.85	1.47	1.96	0.704	<0.009	26.7	26	3.82	23.2	7.1
47	TS106RM02	20020731	15.8	2.3	1.14	4.55	<0.09	44.9	70	1.41	10.6	42.6
48	TS107RM02	20020731	18.7	2.6	1.21	5.16	<0.09	46.7	90	1.76	12.4	52
49	TS108RM02	20020731	5.02	0.97	2.43	1.79	<0.009	31	21	3.54	16.5	9.63
50	TS109RM02	20020731	5.62	0.98	2.73	2.33	0.012	30.8	29	4.83	19.9	14.2
51	TS110RM02	20020731	5.29	1.06	2.56	2.04	<0.009	32.2	22	3.89	18.1	10.9
52	TS111RM02	20020801	3.19	0.8	1.87	0.892	0.01	28	2	0.479	7.69	1.8
53	TS112RM02	20020801	1.71	0.73	1.98	0.417	<0.009	18	<2	1.28	20.7	0.29
54	TS113RM02	20020802	1.71	0.57	3.46	1.38	<0.009	18.7	<2	0.624	28.2	0.06
55	TS114RM02	20020801	1.03	0.27	0.785	0.368	<0.009	10.6	<2	1.33	5.66	0.95
56	TS115RM02	20020801	1.1	0.32	0.9	0.418	<0.009	11.3	<2	0.74	5.77	1.12
57	TS116RM02	20020802	3.88	1.15	1.81	1.36	0.018	29.2	9	1.01	13	3.31
58	TS117RM02	20020802	31.4	2.8	4.23	6.35	<0.09	39.1	160	2.6	35.2	35.2
59	TS118RM02	20020802	7.6	1.89	2.21	2.54	<0.009	28.7	18	0.335	6.31	29.2
60	TS119RM02	20020804	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
61	TS120RM02	20020804	6.28	1.24	3.47	1.91	0.011	23.4	12	0.605	22	0.9
62	TS121RM02	20020804	732	16	212	0.34	<0.9	115	6200	98.9	1600	1000
63	TS122RM02	20020805	3.53	1.44	3.92	1.6	<0.009	33.3	3	0.937	32.7	1.09
64	TS123RM02	20020805	10.4	2	6.19	6.98	<0.09	44.3	70	2.54	40.9	4.8
65	TS124RM02	20020805	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
66	TS125RM02	20020805	6.59	1.7	7.72	3.78	<0.09	49.7	<20	1.33	54.7	0.7
67	TS126RM02	20020805	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
68	TS127RM02	20020805	11	1.4	5.01	4.34	<0.09	38.4	70	1.54	25.5	5.1
69	TS128RM02	20020805	3.43	0.82	2.31	1.38	<0.009	26.7	3	0.86	13.3	2.23

TABLE DR6. TRACE-METAL DATA

#	Sample code	Date	Mn (µg/L)	Zn (µg/L)	Al (µg/L)	Pb (µg/L)	Mo (µg/L)	V (µg/L)	As (µg/L)	Rb (µg/L)	Cs (µg/L)	U (µg/L)
1	VH02BE01	20010709	8	4.6	67.4	0.028	0.26	5.7	<1	4.24	0.33	0.028
2	VH03BE01	20010709	5	1.8	61.4	0.017	0.35	3.7	<1	3.59	0.4	0.021
3	VH04BE01	20010709	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4	VH05BE01	20010710	<2	4.1	46.9	0.081	5.52	18.2	26	7.42	0.18	0.286
5	VH06BE01	20010710	<2	2.2	56.9	0.02	0.5	9	<1	3.95	0.26	0.021
6	VH07BE01	20010710	<2	1.9	57.4	0.014	1.74	26.6	2	4.93	0.08	0.046
7	VH08BE01	20010711	<2	3.8	43.8	0.047	0.26	9.3	<1	3.7	0.19	0.011
8	VH09BE01	20010711	21	14.2	124	0.637	1.12	2.5	<1	4.1	0.48	0.056
9	VH10BE01	20010711	<2	10.9	52.9	0.112	2.1	22.9	17	5.29	0.07	0.047
10	VH11BE01	20010712	<2	11.4	36.1	0.084	1.09	9.4	25	3.37	0.07	0.024
11	VH20RM01	20010712	<2	4.2	44	0.263	2.13	16.4	2	8.77	0.09	0.594
12	VH21RM01	20010712	<2	2.3	41.8	0.061	1.33	13.7	<1	6.84	0.07	0.4
13	VH22RM01	20010712	<2	13.2	48.8	0.415	0.7	11.2	4	3.98	0.1	0.04
14	VH23KL01	20010725	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
15	VH27BE01	20010715	997	25	511	0.133	0.8	<0.5	<1	7.44	0.18	<0.002
16	VH50RM01	20011013	0.083	1.6	0.8	<0.008	1.03	2.25	0.87	8.27	1.28	0.017
17	VH51RM01	20011013	0.094	1.3	7.5	0.062	0.82	7.29	0.64	3.84	0.544	0.007
18	VH52RM01	20011013	0.174	1.1	14.4	0.028	0.23	0.86	0.07	3.25	0.51	0.004
19	VH53RM01	20011013	0.24	0.6	0.9	0.046	0.24	1.39	0.09	3.97	0.291	0.007
20	VH54RM01	20011015	0.067	0.5	11.7	0.008	0.92	2.48	0.42	3.52	0.861	0.023
21	VH55RM01	20011015	0.037	2.9	3.1	0.024	0.49	2.33	0.36	4.07	0.366	0.01
22	VH56RM01	20011015	0.119	0.7	2.1	<0.008	0.09	25.7	0.07	1.6	0.049	<0.003
23	VH57RM01	20011015	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
24	VH58RM01	20011015	0.305	0.5	8.2	<0.008	0.1	8.01	0.09	2.86	0.056	<0.003
25	VH59RM01	20011016	0.228	0.5	3.8	0.046	0.9	3.28	0.66	4.47	0.784	0.016
26	VH60RM01	20011016	0.096	0.3	1.2	<0.008	0.45	12.2	0.71	2.93	0.101	0.02
27	VH61RM01	20011016	0.124	0.6	4.1	<0.008	0.7	6.1	2.16	4.03	0.293	<0.003
28	VH62RM01	20011016	0.242	1.4	10.2	<0.008	0.25	13.3	0.13	1.69	0.059	0.006
29	VH63RM01	20011016	0.12	0.4	8.7	<0.008	0.56	16.5	0.22	2.79	0.027	0.09
30	VH64RM01	20011017	0.044	0.5	1.3	0.016	0.17	8.66	0.05	4.84	0.04	0.007
31	VH65RM01	20011017	2.99	112	3.7	8.2	2.17	18.8	2.7	6.39	0.141	0.203
32	VH66RM01	20011017	0.056	1	1.2	<0.008	0.48	11.9	0.22	2.65	0.098	0.024
33	TS28RM02	20020511	<0.1	19.1	14	0.09	1.9	18.8	2.9	6.45	0.12	0.19
34	TS29BE02	20020510	10	7	1020	<0.2	16	8	363	35.9	27.2	<0.2
35	TS30RM02	20020510	2	13	150	<0.2	9	<7	69	22.3	13.9	<0.2
36	TS31BE02	20020511	96	15	210	1	8	8	157	24	19.8	<0.2
37	TS32RM02	20020510	<0.1	10.4	15	<0.02	1.8	16	0.9	8.51	0.06	0.6
38	TS34BE02	20020512	0.04	0.31	5.4	<0.002	0.27	12.2	0.08	2.39	0.018	0.017
39	TS36BE02	20020510	<0.01	0.33	2.9	<0.002	0.43	12.1	0.29	2.66	0.094	0.028
40	TS37BE02	20020512	<0.01	0.39	2.7	<0.002	<0.04	1.88	<0.03	0.956	<0.004	0.01
41	TS100RM02	20020729	0.03	0.92	4.6	0.009	0.8	8.31	20.4	2.94	0.063	0.019
42	TS101RM02	20020730	<0.1	1.3	20	0.03	5.2	17.5	27.7	7.71	0.18	0.28
43	TS102RM02	20020730	<0.1	1.5	20	0.03	1.8	24.2	1	5.18	0.05	0.05
44	TS103RM02	20020730	<0.1	4	19	0.19	0.7	20.3	0.8	4.51	<0.04	<0.02
45	TS104RM02	20020730	<0.1	1.8	108	0.05	0.8	21	1	4.72	<0.04	<0.02
46	TS105RM02	20020731	0.02	1.18	4	0.023	0.24	2.42	0.11	5.89	0.308	0.012
47	TS106RM02	20020731	<0.1	2.5	65	0.66	0.9	10.6	10	5.2	0.07	<0.02
48	TS107RM02	20020731	<0.1	1.8	25	<0.02	1	11	12.4	5.93	0.1	<0.02
49	TS108RM02	20020731	10	2.11	50	0.028	0.42	5.48	0.45	4.15	0.439	0.02
50	TS109RM02	20020731	36.8	2.76	75.8	0.035	0.3	2.97	0.35	4.1	0.46	0.06
51	TS110RM02	20020731	19.4	2.12	66.3	0.009	0.4	4.98	0.38	4.38	0.451	0.037
52	TS111RM02	20020801	0.03	0.34	5.5	0.015	0.28	17.5	0.18	1.91	0.02	<0.002
53	TS112RM02	20020801	0.08	0.58	3.2	0.008	<0.04	2.61	<0.03	1.66	0.023	<0.002
54	TS113RM02	20020802	0.02	0.56	3.5	0.006	0.04	4.48	<0.03	1.27	0.011	0.002
55	TS114RM02	20020801	0.14	0.77	17.9	0.015	0.05	0.68	0.12	1.29	0.296	<0.002
56	TS115RM02	20020801	0.15	0.77	14.4	0.008	0.05	1.01	0.12	1.52	0.292	<0.002
57	TS116RM02	20020802	0.2	1.62	8.2	0.019	0.23	7.65	0.63	2.98	0.037	<0.002
58	TS117RM02	20020802	<0.1	2.4	22	0.05	1.7	21.3	15.4	5.15	<0.04	0.02
59	TS118RM02	20020802	0.36	1.41	6	0.009	0.24	9.54	7.27	2.89	0.02	0.009
60	TS119RM02	20020804	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
61	TS120RM02	20020804	0.08	1.05	19.1	0.049	0.52	14.6	0.19	2.72	0.023	0.083
62	TS121RM02	20020804	9	25	220	0.2	16	10	422	38.1	27.6	<0.2
63	TS122RM02	20020805	0.04	2.02	7.7	0.018	0.16	7.88	0.05	3.73	0.026	0.02
64	TS123RM02	20020805	<0.1	2.1	104	0.06	<0.4	12.4	1.3	5.2	0.06	0.12
65	TS124RM02	20020805	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
66	TS125RM02	20020805	<0.1	2.2	101	0.07	<0.4	10.4	<0.3	4.05	0.07	0.02
67	TS126RM02	20020805	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
68	TS127RM02	20020805	<0.1	3.4	32	0.08	<0.4	15.7	4.9	2.67	<0.04	0.03
69	TS128RM02	20020805	0.3	2.53	8.4	0.036	0.34	11.1	0.25	2.89	0.114	0.005