

**Table 6.** Geochemical data for water samples collected in the Humboldt River study.

Lab No.	Field No.	Latitude			Longitude			Latitude dec. deg.	Longitude dec. deg.		
		deg.	min.	sec.	deg.	min.	sec.				
C-132039	99HMB1WU	40	57	39	N	117	25	15	W	40.96083	-117.42083
C-132040	99HMB1WF	40	57	39	N	117	25	15	W	40.96083	-117.42083
C-132041	99HMB2WU	40	55	1	N	117	52	28	W	40.91694	-117.87444
C-132042	99HMB2WF	40	55	1	N	117	52	28	W	40.91694	-117.87444
C-132043	99HMB3WU	40	41	45	N	118	5	21	W	40.69583	-118.08917
C-132044	99HMB3WF	40	41	45	N	118	5	21	W	40.69583	-118.08917
C-132045	99HMB4WU	40	41	39	N	118	13	2	W	40.69417	-118.21722
C-132046	99HMB4WF	40	41	39	N	118	13	2	W	40.69417	-118.21722
C-132047	99HMB5WU	40	26	49	N	118	18	36	W	40.44694	-118.31000
C-132048	99HMB5WF	40	26	49	N	118	18	36	W	40.44694	-118.31000
C-132049	99RYP1WU	40	41	12	N	118	15	2	W	40.68667	-118.25056
C-132050	99RYP1WF	40	41	12	N	118	15	2	W	40.68667	-118.25056
C-132051	99RYP2WU	40	42	21	N	118	17	53	W	40.70583	-118.29806
C-132052	99RYP2WF	40	42	21	N	118	17	53	W	40.70583	-118.29806
C-132053	99RYP3WU	40	39	0	N	118	21	3	W	40.65000	-118.35083
C-132054	99RYP3WF	40	39	0	N	118	21	3	W	40.65000	-118.35083
C-132055	99RYP4WU	40	37	27	N	118	21	4	W	40.62417	-118.35111
C-132056	99RYP4WF	40	37	27	N	118	21	4	W	40.62417	-118.35111
C-132057	99RYP5WU	40	34	35	N	118	19	7	W	40.57639	-118.31861
C-132058	99RYP5WF	40	34	35	N	118	19	7	W	40.57639	-118.31861
C-132059	99BJKW1U	40	31	5	N	118	13	16	W	40.51806	-118.22111
C-132060	99BJKW1F	40	31	5	N	118	13	16	W	40.51806	-118.22111
C-132061	99BJKW2U	40	31	14	N	118	13	27	W	40.52056	-118.22417
C-132062	99BJKW2F	40	31	14	N	118	13	27	W	40.52056	-118.22417

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Lab No.	Field No.	Conductivity $\mu\text{S}/\text{cm}$	pH	Turbidity NTU	Fe <sup>2+</sup> mg/L	Temperature $^{\circ}\text{C}$
C-132039	99HMB1WU	530	8.1	40	<0.1	23
C-132040	99HMB1WF					
C-132041	99HMB2WU	600	8.2	91	<0.1	24
C-132042	99HMB2WF					
C-132043	99HMB3WU	630	8.4	150	<0.1	23
C-132044	99HMB3WF					
C-132045	99HMB4WU	660	8.3	150	<0.1	24
C-132046	99HMB4WF					
C-132047	99HMB5WU	840	8.6	48	<0.1	23
C-132048	99HMB5WF					
C-132049	99RYP1WU	730	8.5	140	<0.1	23
C-132050	99RYP1WF					
C-132051	99RYP2WU	730	8.5	140	0.1	24
C-132052	99RYP2WF					
C-132053	99RYP3WU	740	8.6	78	0.1	25
C-132054	99RYP3WF					
C-132055	99RYP4WU	780	8.6	40	0.1	21
C-132056	99RYP4WF					
C-132057	99RYP5WU	820	8.6	48	0.1	23
C-132058	99RYP5WF					
C-132059	99BJKW1U	350	8.6	5	<0.1	13
C-132060	99BJKW1F					
C-132061	99BJKW2U	330	8.7	8	<0.1	14
C-132062	99BJKW2F					

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Lab No.	Field No.	Alkalinity mg/L CaCO <sub>3</sub>	Hg-AF µg/L	Cl-IC mg/L	F-IC mg/L	NO <sub>3</sub> -IC mg/L	SO <sub>4</sub> -IC mg/L
C-132039	99HMB1WU	210	0.006				
C-132040	99HMB1WF		<0.005	22	0.7	<0.1	30
C-132041	99HMB2WU	230	<0.005				
C-132042	99HMB2WF		<0.005	28	0.9	<0.1	40
C-132043	99HMB3WU	250	0.008				
C-132044	99HMB3WF		<0.005	31	0.9	<0.1	44
C-132045	99HMB4WU	260	0.009				
C-132046	99HMB4WF		<0.005	33	0.8	<0.1	49
C-132047	99HMB5WU	230	<0.005				
C-132048	99HMB5WF		<0.005	76	0.9	0.1	85
C-132049	99RYP1WU	280	0.008				
C-132050	99RYP1WF		0.005	40	0.9	<0.1	58
C-132051	99RYP2WU	270	0.005				
C-132052	99RYP2WF		<0.005	39	0.8	0.1	61
C-132053	99RYP3WU	250	0.005				
C-132054	99RYP3WF		<0.005	52	0.9	0.2	78
C-132055	99RYP4WU	240	<0.005				
C-132056	99RYP4WF		<0.005	60	0.9	0.1	82
C-132057	99RYP5WU	230	0.005				
C-132058	99RYP5WF		<0.005	72	0.9	<0.1	82
C-132059	99BJKW1U	160	0.008				
C-132060	99BJKW1F		<0.005	5.7	0.7	0.3	20
C-132061	99BJKW2U	150	0.006				
C-132062	99BJKW2F		<0.005	6.1	0.7	0.2	20

**Table 6.** Geochemical data for water samples collected in the Humboldt River study.

Lab No.	Field No.	Ag-ICP-MS µg/L	Al-ICP-MS µg/L	As-ICP-MS µg/L	Ba-ICP-MS µg/L	Be-ICP-MS µg/L
C-132039	99HMB1WU	0.09	700	16	93	<0.05
C-132040	99HMB1WF	0.07	1.3	16	72	<0.05
C-132041	99HMB2WU	0.06	1700	19	150	0.07
C-132042	99HMB2WF	0.04	0.87	18	79	<0.05
C-132043	99HMB3WU	0.04	3700	22	240	0.20
C-132044	99HMB3WF	0.03	0.7	20	75	<0.05
C-132045	99HMB4WU	0.02	3800	23	220	0.20
C-132046	99HMB4WF	0.02	1.8	22	73	<0.05
C-132047	99HMB5WU	0.03	580	26	52	<0.05
C-132048	99HMB5WF	0.03	46	25	38	<0.05
C-132049	99RYP1WU	0.02	2300	28	170	0.30
C-132050	99RYP1WF	0.01	26	29	89	<0.05
C-132051	99RYP2WU	0.01	2200	29	150	0.09
C-132052	99RYP2WF	<0.01	23	26	78	<0.05
C-132053	99RYP3WU	<0.01	940	28	88	0.10
C-132054	99RYP3WF	<0.01	49	27	53	<0.05
C-132055	99RYP4WU	<0.01	730	26	71	<0.05
C-132056	99RYP4WF	<0.01	69	27	51	<0.05
C-132057	99RYP5WU	0.01	910	28	73	<0.05
C-132058	99RYP5WF	<0.01	54	26	39	<0.05
C-132059	99BJKW1U	<0.01	69	8.8	17	<0.05
C-132060	99BJKW1F	<0.01	<0.2	8.5	16	<0.05
C-132061	99BJKW2U	<0.01	87	8.4	17	<0.05
C-132062	99BJKW2F	<0.01	<0.2	8.5	15	<0.05

**Table 6.** Geochemical data for water samples collected in the Humboldt River study.

Lab No.	Field No.	Ca-ICP-MS µg/L	Cd-ICP-MS µg/L	Co-ICP-MS µg/L	Cr-ICP-MS µg/L	Cu-ICP-MS µg/L
C-132039	99HMB1WU	33	0.04	0.4	<1	2
C-132040	99HMB1WF	31	<0.02	0.03	<1	1
C-132041	99HMB2WU	38	0.09	0.92	1	4
C-132042	99HMB2WF	34	<0.02	0.04	<1	2
C-132043	99HMB3WU	45	0.20	2.2	3	8
C-132044	99HMB3WF	35	<0.02	<0.02	<1	2
C-132045	99HMB4WU	43	0.20	2	3	8
C-132046	99HMB4WF	36	<0.02	0.03	<1	3
C-132047	99HMB5WU	34	<0.02	0.2	<1	2
C-132048	99HMB5WF	34	<0.02	<0.02	<1	2
C-132049	99RYP1WU	44	0.10	1.2	2	6
C-132050	99RYP1WF	40	<0.02	0.02	<1	3
C-132051	99RYP2WU	44	0.08	1.2	2	6
C-132052	99RYP2WF	38	<0.02	0.07	<1	3
C-132053	99RYP3WU	40	0.04	0.59	<1	4
C-132054	99RYP3WF	35	<0.02	0.07	<1	3
C-132055	99RYP4WU	36	0.02	0.4	<1	3
C-132056	99RYP4WF	36	<0.02	0.04	<1	2
C-132057	99RYP5WU	36	0.03	0.5	<1	3
C-132058	99RYP5WF	32	<0.02	0.02	<1	2
C-132059	99BJKW1U	41	0.06	<0.02	<1	0.5
C-132060	99BJKW1F	42	<0.02	<0.02	<1	<0.5
C-132061	99BJKW2U	40	0.06	<0.02	<1	0.5
C-132062	99BJKW2F	41	<0.02	<0.02	<1	<0.5

**Table 6.** Geochemical data for water samples collected in the Humboldt River study.

Lab No.	Field No.	Fe-ICP-MS µg/L	K-ICP-MS µg/L	Mg-ICP-MS µg/L	Mn-ICP-MS µg/L	Na-ICP-MS µg/L
C-132039	99HMB1WU	520	6700	9.5	42	49
C-132040	99HMB1WF	<30	6200	9.6	3.5	50
C-132041	99HMB2WU	1400	8300	12	110	58
C-132042	99HMB2WF	<30	7800	11	11	59
C-132043	99HMB3WU	3000	9700	14	230	66
C-132044	99HMB3WF	<30	8300	11	3.6	65
C-132045	99HMB4WU	3100	9300	14	200	67
C-132046	99HMB4WF	29	9100	11	3.4	66
C-132047	99HMB5WU	530	12000	13	15	99
C-132048	99HMB5WF	68	12000	13	1.6	100
C-132049	99RYP1WU	2100	11000	15	150	82
C-132050	99RYP1WF	51	11000	13	3	78
C-132051	99RYP2WU	2200	12000	15	120	82
C-132052	99RYP2WF	46	9800	12	4.4	76
C-132053	99RYP3WU	990	10000	14	44	82
C-132054	99RYP3WF	67	10000	13	3.2	79
C-132055	99RYP4WU	740	10000	13	25	87
C-132056	99RYP4WF	98	10000	13	1.8	90
C-132057	99RYP5WU	880	12000	14	32	100
C-132058	99RYP5WF	79	11000	13	1.7	99
C-132059	99BJKW1U	110	710	7.8	4	8.7
C-132060	99BJKW1F	34	710	7.8	0.36	8.6
C-132061	99BJKW2U	100	730	8	4.3	8.8
C-132062	99BJKW2F	36	760	8	0.5	8.8

**Table 6.** Geochemical data for water samples collected in the Humboldt River study.

Lab No.	Field No.	Ni-ICP-MS µg/L	Pb-ICP-MS µg/L	Sb-ICP-MS µg/L	Ti-ICP-MS µg/L	V-ICP-MS µg/L
C-132039	99HMB1WU	1.2	0.63	0.9	<0.05	5.5
C-132040	99HMB1WF	0.4	<0.05	0.92	<0.05	4.3
C-132041	99HMB2WU	2.6	1.9	0.88	<0.05	9.1
C-132042	99HMB2WF	0.7	<0.05	1	<0.05	6.1
C-132043	99HMB3WU	5.5	4.3	0.78	0.05	14
C-132044	99HMB3WF	0.9	<0.05	1.2	<0.05	7.0
C-132045	99HMB4WU	5.1	4.1	0.87	0.06	14
C-132046	99HMB4WF	0.9	<0.05	1.2	<0.05	7.7
C-132047	99HMB5WU	0.9	0.40	3	<0.05	10
C-132048	99HMB5WF	0.3	<0.05	3.4	<0.05	8.9
C-132049	99RYP1WU	3.6	2.3	1.2	<0.05	15
C-132050	99RYP1WF	1.3	0.08	2.5	<0.05	10
C-132051	99RYP2WU	4	1.9	1.4	<0.05	14
C-132052	99RYP2WF	1.5	0.05	2.2	<0.05	8.7
C-132053	99RYP3WU	1.6	0.83	2.4	<0.05	12
C-132054	99RYP3WF	0.8	0.09	3.2	<0.05	9.7
C-132055	99RYP4WU	1.2	0.57	2.7	<0.05	11
C-132056	99RYP4WF	0.6	0.05	3.3	<0.05	9.0
C-132057	99RYP5WU	1.4	0.63	3	<0.05	12
C-132058	99RYP5WF	0.5	<0.05	3.6	<0.05	8.9
C-132059	99BJKW1U	<0.1	0.20	0.53	<0.05	0.9
C-132060	99BJKW1F	<0.1	<0.05	0.49	<0.05	0.8
C-132061	99BJKW2U	<0.1	0.20	0.49	<0.05	0.8
C-132062	99BJKW2F	<0.1	<0.05	0.48	<0.05	0.7

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Lab No.	Field No.	Zn-ICP-MS µg/L	Sample Description
C-132039	99HMB1WU	6.0	UNFILTERED STREAM WATER
C-132040	99HMB1WF	<0.5	FILTERED STREAM WATER 0.45 MICRON
C-132041	99HMB2WU	9.0	UNFILTERED STREAM WATER
C-132042	99HMB2WF	<0.5	FILTERED STREAM WATER 0.45 MICRON
C-132043	99HMB3WU	24	UNFILTERED STREAM WATER
C-132044	99HMB3WF	<0.5	FILTERED STREAM WATER 0.45 MICRON
C-132045	99HMB4WU	20	UNFILTERED STREAM WATER
C-132046	99HMB4WF	<0.5	FILTERED STREAM WATER 0.45 MICRON
C-132047	99HMB5WU	2.0	UNFILTERED STREAM WATER
C-132048	99HMB5WF	0.5	FILTERED STREAM WATER 0.45 MICRON
C-132049	99RYP1WU	10	UNFILTERED RESERVOIR WATER
C-132050	99RYP1WF	1.0	FILTERED RESERVOIR WATER 0.45 MICRON
C-132051	99RYP2WU	10	UNFILTERED RESERVOIR WATER
C-132052	99RYP2WF	1.0	FILTERED RESERVOIR WATER 0.45 MICRON
C-132053	99RYP3WU	4.0	UNFILTERED RESERVOIR WATER
C-132054	99RYP3WF	2.0	FILTERED RESERVOIR WATER 0.45 MICRON
C-132055	99RYP4WU	3.0	UNFILTERED RESERVOIR WATER
C-132056	99RYP4WF	0.8	FILTERED RESERVOIR WATER 0.45 MICRON
C-132057	99RYP5WU	4.0	UNFILTERED RESERVOIR WATER
C-132058	99RYP5WF	2.0	FILTERED RESERVOIR WATER 0.45 MICRON
C-132059	99BJKW1U	1.0	UNFILTERED STREAM WATER
C-132060	99BJKW1F	<0.5	FILTERED STREAM WATER 0.45 MICRON
C-132061	99BJKW2U	0.9	UNFILTERED STREAM WATER
C-132062	99BJKW2F	<0.5	FILTERED STREAM WATER 0.45 MICRON