

Table 1:
SURFACE WATER SAMPLING LOCATIONS AND FIELD DATA July 12-13, 2007

Island	Watershed	Time	N Latitude	W Longitude	°C	Ca ppm	NH ₄	pH	DO%	µS	NTU
Lopez	Hummel Lake	0900	48° 31.307	122° 53.345	20.6	25	0	7.01	84.9	2.4	4.26
	Fisherman Bay	1001	48° 31.058	122° 54.575	21.2	80	0	6.75	53.6	224.6	7.25
	Davis Bay	1040	48° 27.818	122° 55.183	19.3	100	0	7.36	72.7	3.1	12.2
	Jasper Cove	1200	48° 28.348	122° 51.517	16.8	100	0	7.52	54.4	122.1	14.6
	Shoal Bay	1224	48° 33.200	122° 53.095	19.6	100	0	7.45	34.2	3.2	1.89
San Juan	Beaverton	1429	48° 32.708	123° 01.173	18.8	100	0	7.86	74.5	5.9	64.07
	Westcott Bay	1512	48° 35.808	123° 08.461	16.3	90	0	7.89	87.6	3.6	1.84
	False Bay	1733	48°29.482	123° 04.110	20.4	80	0	7.46	56.9	684	5.74
Orcas	Doe Bay	1026	48° 38.535	122° 46.869	15.9	65	0	7.76	82.4	95.3	6.64
	Buck Bay	1102	48° 37.357	122° 49.926	15.2	32	0	7.96	92.5	108.7	2.12
	Mountain Lake	1136	48° 39.310	122° 49.117	19.7	28	0	8.38	75.9	98.8	0.61
	Cascade Lake	1210	48° 38.998	122° 51.943	18.9	100	0	7.79	76.8	4.3	2.13
	West Beach	1245	48° 41.090	122° 57.285	17.4	90	0	7.75	63.9	5.7	7.39
	Crow Valley	1322	48° 37.992	122° 57.499	16.8	100	0	7.71	21.2	4.2	24.77
	Skull Creek	1400	48° 38.734	122° 59.285	19.2	100	0	8.03	91.5	5.2	2.40
	Victorian	1427	48° 35.975	122° 56.063	16.9	100	0	8.16	92.9	5.3	7.27

**Table 2:
SURFACE WATER SAMPLING LOCATIONS AND FIELD DATA October 20-21, 2007**

Island	Watershed	Time	Latitude	Longitude	°C	Total Hardness	Total Alkalinity	pH	DO%	µS	NTU
Orcas	Victorian	1025	48° 35.975	122° 56.063	13.7	140	180	6.89	87.3	0.4	7.76
	Doe Bay	1140	48° 38.535	122° 46.869	10.2	90	-	6.85	87.5	0.4	9.40
	Buck Bay	1215	48° 37.357	122° 49.926	9.1	60	-	6.91	106.9	0.5	1.52
	Mountain Lake surface	1250	48° 39.356	122° 48.896	11.7	100	-	6.86	98.4	8.2	0.13
	Mountain Lake mid	1340	48° 39.356	122° 48.896	11.6	90	-	6.76	81.7	2.4	0.55
	Mountain Lake deep	1320	48° 39.356	122° 48.896	9.1	90	-	6.78	72.1	3.1	0.38
	Cascade Lake surface	1514	48° 38.975	122° 51.110	11.7	80	100	6.52	88.8	1.9	152.7
	Cascade Lake deep	1525	48° 38.975	122° 51.110	11.0	80	100	7.06	72.4	2.6	99.71
	West Beacht	1605	48° 41.090	122° 57.285	10.3	200	120	7.05	78.4	4.0	13.7
	Skull Creek	1625	48° 38.734	122° 59.285	10.6	100	120	7.21	81.2	3.8	7.29
San Juan	Beaverton	0800	48° 32.708	123° 01.173	9.5	200	80	6.47	89.2	1.7	6.92
	Westcott Bay	0835	48° 35.808	123° 08.461	10.2	100	120	7.68	84.2	1.2	2.44
	Lakedale Lake	0915	48° 34.891	123° 05.296	10.4	100	80	7.35	63.3	2.0	3.38
	Trout Lake	1005	48° 31.384	123° 06.583	11.6	100	80	7.35	63.5	2.0	151.0
Lopez	Hummel Lake	1320	48° 31.131	122° 53.545	10.7	100	40	7.52	86.1	2.0	3.43
	Jasper Cove	1515	48° 28.348	122° 51.517	9.6	150	80	7.20	10.3	33.3	19.02
	Davis Bay	1410	48° 27.818	122° 55.183	10.4	150	120	7.37	81.6	2.5	8.92

*Note: All samples tested zero for ammonia.

Table 3

SURFACE WATER LABORATORY RESULTS

ARSENIC and CADMIUM in parts per billion

[Provisional]

Island	Watershed	ARSENIC				CADMIUM			
		July 2007		October 2007		July 2007		October 2007	
		Dissolved	TOTAL	Dissolved	TOTAL	Dissolved	TOTAL	Dissolved	TOTAL
Lopez	Hummel Lake	<i>0.1977</i>	0.6067	-	1.28	<i>0.015</i>	<i>0.0168</i>	-	<i>0.01</i>
	Fisherman Bay	0.4753	1.1452	-	-	<i>0.017</i>	<i>0.0426</i>	-	-
	Davis Bay	0.67	2.4542	0.8	1.33	<i>0.0139</i>	<i>0.0534</i>	0.063	-
	Jasper Cove	0.8421	2.38	0.94	1.61	<i>0.0052</i>	<i>0.0531</i>	-	-
	Shoal Bay	1.07	2.2962	-	-	<i>0.0135</i>	<i>0.0435</i>	-	-
San Juan	Beaverton	1.5775	1.7553	0.54	0.62	-	-	-	-
	Westcott Bay	<i>0.2563</i>	0.51	0.39	0.3	<i>0.0334</i>	<i>0.024</i>	0.061	0.118
	False Bay	<i>-0.1378</i>	<i>-0.0286</i>	-	-	<i>-0.0507</i>	<i>0.0114</i>		
	Lakedale Lake	-	-	<i>0.2</i>	<i>0.37</i>	-	-	<i>0.31</i>	-
	Trout Lake	-	-	<i>0.24</i>	<i>0.16</i>	-	-	0.074	-
Orcas	Doe Bay	<i>0.41</i>	2.1371	0.56	0.58	<i>0.0119</i>	<i>0.0517</i>	0.056	-
	Buck Bay	0.6441	1.9621	<i>0.28</i>	0.34	<i>0.0311</i>	<i>0.0308</i>	0.111	-
	Mountain Lake*	<i>0.2628</i>	8.2861	<i>0.07</i>	<i>0.23</i>	<i>0.0187</i>	<i>0.1696</i>	0.06	0.074
	Cascade Lake**	<i>0.06</i>	<i>0.2194</i>	0.45	0.42	<i>0.0553</i>	<i>0.0577</i>	0.496	-
	West Beach	0.5532	0.8297	0.37	0.54	<i>-0.0084</i>	<i>0.0163</i>	2.102	-
	Crow Valley	0.9	2.8093	-	-	<i>0.014</i>	<i>0.0177</i>	0.071	0.288
	Skull Creek	<i>0.3851</i>	1.9713	0.54	0.7	<i>0.0167</i>	<i>0.0298</i>	-	-
	Victorian	0.7041	0.8916	0.7	0.94	<i>0.048</i>	<i>0.0505</i>	<i>0.06</i>	-

Italic=Below detection limit; Standard=Below quantification limit

* At surface; October arsenic mid-water results were 0.17 and 0.26, and bottom results were 0.11 and 0.25.

** At surface; October arsenic bottom results were 0.42 and 0.39