5	0.237	24.47	8.08	6.48	7	11	1.57	7	0.64
5	0.258	25.59	8.00	11.55	10	10	1.0	11	1.10
6	0.236	24.48	8.10	7.92	10	18	1.8	28	2.80
6	0.261	24.53	7.77	10.30	10	28	2.8	91	9.10
7	0.238	25.31	8.10	7.46	10	16	1.6	52	5.20
7	0.260	25.51	7.84	10.83	10	20	2.0	64	6.40
8	0.237	25.37	8.23	9.49	10	16	1.6	3	0.30
8	0.252	25.33	7.94	10.32	10	17	1.7	31	3.10
9	0.230	25.70	8.34	9.30	10	14	1.4	4	0.40
9	0.252	25.78	7.96	10.64	10	27	2.7	33	3.30
10	0.238	25.07	8.12	8.03	10	23	2.3	16	1.60
10	0.248	25.74	8.00	11.12	10	20	2.0	30	3.00
				2008 TOTAL	**95**	**163**	**1.7**	**141**	**1.48**
				2010 TOTAL	**100**	**177**	**1.8**	**315**	**3.15**

1.1.6 Chalk Hill Reservoir

On July 7, 2010 the EnviroScience field team collected 143 stems from 16 locations that were originally established in 2008 (Figure 1-6). The overall weevil population increased from 1.48 weevils/stem in 2008 to 2.86 weevils/stem in 2010 (Table 1-6). Positively, the EWM was considered sparse mixed with multiple native plant species at 13 of the 16 locations. The water quality readings for the 2010 survey were similar to what was found in 2008 with the exception of the DO; readings were high and fluctuated.

Table 1-6 2008 (Gray) and 2010 (Yellow) Stem Analysis and Water Quality Data at Each Transect in Chalk Hill Reservoir

	Water Quality				Stem Counts			Weevil Count	
Transect	Cond	Temp	pH	DO	Stems	Meristems	Ave. Meristems/ Stem	Total Weevils	Ave. Weevils/ Stem
1	0.236	25.90	8.39	8.89	10	16	1.6	8	0.80
1	0.261	26.67	8.23	13.62	10	40	4.0	14	1.40
2	0.233	25.64	8.40	8.56	10	13	1.3	3	0.30
2	0.264	26.05	8.15	11.53	9	19	2.1	47	5.22
3	0.233	26.14	8.27	8.17	8	14	1.75	1	0.13
3	0.264	26.62	8.17	11.59	10	23	2.3	30	3.00
4	0.237	26.44	8.25	8.23	10	31	3.1	11	1.10
4	0.265	26.42	8.14	11.52	8	7	0.9	26	3.25
5	0.231	25.76	8.12	7.95	10	16	1.6	10	1.00
5	0.264	26.47	8.60	15.30	10	16	1.6	14	1.40

Figure 1-6. WE Energies Chalk Hill Hydro Project. 2008 & 2010 Weevil Distribution Survey.

Survey Transect

CHP_pts (WE Energies)

CHP_poly (WE Energies)

500 250 0 500 Meters

1,500 750 0 1,500 Feet

N

2006 NAIP imagery courtesy of USDA. 2007 vegetation points and polygons appear as provided by WE Energies.

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