

CALM Lab Results SET 1 (YW)													CALM Lab Results SET 2 (AC)																								
Lab Book #	Wetland	Date	CALM Orion ECOND (mS/m)	ECOND > 500mS/m	ECOND < 500mS/m	Salinity calculated from CALM ECOND using Williams Formulae 1986 (ppt)	Salinity calculated from CALM ECOND x .0056 (R. Schulz 1992) (ppt)	Calculated salinity value from CALM ECOND value (ppt)	CALM Orion salinity (direct reading) ppt	CALM direct minus calculated CALM Salinity value	% diff. Between CALM direct salinity and calc. salinity using CALM econd value	Orion (direct reading) mg/L = ppm	Orion (direct reading) ppt (/1000)	Dilution Factor	Calc sal x dilution	direct sal x dilution	Lab Book #	Wetland	Date	CALM Orion ECOND (mS/m)	ECOND > 500mS/m	ECOND < 500mS/m	Salinity calculated from CALM ECOND using Williams Formulae 1986 (ppt)	Salinity calculated from CALM ECOND x .0056 (R. Schulz 1992) (ppt)	Calculated salinity value from CALM ECOND value (ppt)	CALM Orion salinity (direct reading) ppt	CALM direct minus calculated CALM Salinity value	% diff. Between CALM direct salinity and calc. salinity using CALM econd value	Orion (direct reading) mg/L = ppm	Orion (direct reading) ppt (/1000)	Dilution Factor	Calc sal x dilution	direct sal x dilution	CALM SET 1 calculated Salinity minus Calculated salinity value	%diff Between calc sal using CALM Set 1 and calc. using CALM Set 2	CALM Set 1 Salinity minus CALM Set 2 Salinity	
10	YEAS	7/11/2012	34.7	0.15	0.19	0.19	0.2	0.01	5.26	170	0.17						13	YEAS	7/11/2012	34.9	0.15	0.20	0.2	0.2	0.00	0.00	171	0.171							0.0	-5.00	0
19	YELL	6/11/2012	2783	17.37	15.58	17.37	17.1	-0.27	-1.55	13634	13.634						23	YELL	6/11/2012	2802	17.50	15.69	17.5	17.1	-0.40	-2.29	13730	13.73							-0.1	-0.74	0
79	ALTH	4/11/2012	1122	6.46	6.28	6.46	6.4	-0.06	-0.93	5500	5.5	20	129.2	128	74	ALTH	4/11/2012	1223	7.10	6.85	7.1	6.9	-0.20	-2.82	5992	5.992	20	142	138	-0.6	-9.01	-0.5					
67	ANDE	6/11/2012	2641	16.41	14.79	16.41	16.1	-0.31	-1.89	12940	12.94	20	328.2	322	85	ANDE	6/11/2012	2809	17.54	15.73	17.54	17.1	-0.44	-2.51	13763	13.763	20	350.8	342	-1.1	-6.44	-1					
84	BENN	4/11/2012	1365	8.00	7.64	8	7.8	-0.20	-2.50	6693	6.693	20	160	156	88	BENN	4/11/2012	1466	8.65	8.21	8.65	8.4	-0.25	-2.89	7184	7.184	20	173	168	-0.7	-7.51	-0.6					
73	BEVE	7/11/2012	2603	16.15	14.58	16.15	15.8	-0.35	-2.17	12752	12.752	20	323	316	69	BEVE	7/11/2012	2781	17.35	15.57	17.35	16.9	-0.45	-2.59	13628	13.628	20	347	338	-1.2	-6.92	-1.1					
75	CAMP	8/11/2012	2607	16.18	14.60	16.18	15.9	-0.28	-1.73	12782	12.782	20	323.6	318	71	CAMP	8/11/2012	2825	17.65	15.82	17.65	17.2	-0.45	-2.55	13814	13.814	20	353	344	-1.5	-8.33	-1.3					
87	CASU	3/11/2012	367	1.92	2.06	2.06	1.9	-0.16	-7.77	1805	1.805	20	41.2	38	80	CASU	3/11/2012	417	2.20	2.34	2.34	2.2	-0.14	-5.98	2044	2.044	20	46.8	44	-0.3	-11.97	-0.3					
76	CLIF C	6/11/2012	394	2.07	2.21	2.21	2.1	-0.11	-4.98	1929	1.929	20	44.2	42	72	CLIFF C	6/11/2012	452	2.40	2.53	2.53	2.4	-0.13	-5.14	2213	2.213	20	50.6	48	-0.3	-12.65	-0.3					
77	CLIF JET	6/11/2012	559	3.03	3.13	3.03	3	-0.03	-0.99	2740	2.74	20	60.6	60	73	CLIFF JET	6/11/2012	601	3.28	3.37	3.28	3.2	-0.08	-2.44	2946	2.946	20	65.6	64	-0.3	-7.62	-0.2					
80	CMBG	5/11/2012	357	1.86	2.00	2	1.9	-0.10	-5.00	1751	1.751	20	40	38	76	CMBG	5/11/2012	390	2.05	2.18	2.18	2	-0.18	-8.26	1912	1.912	20	43.6	40	-0.2	-8.26	-0.1					
72	COOM	3/11/2012	712	3.94	3.99	3.94	3.9	-0.04	-1.02	3494	3.494	20	78.8	78	67	COOM	3/11/2012	782	4.37	4.38	4.37	4.3	-0.07	-1.60	3833	3.833	20	87.4	86	-0.4	-9.84	-0.4					
89	COYR	3/11/2012	334	1.73	1.87	1.87	1.7	-0.17	-9.09	1644	1.644	20	37.4	34	89	COYR	3/11/2012	358	1.87	2.00	2	1.9	-0.10	-5.00	1754	1.754	20	40	38	-0.1	-6.50	-0.2					
82	DUMB	4/11/2012	2555	15.83	14.31	15.83	15.5	-0.33	-2.08	12516	12.516	20	316.6	310	77	DUMB	4/11/2012	2840	17.75	15.90	17.75	17.4	-0.35	-1.97	13920	13.92	20	355	348	-1.9	-10.82	-1.9					
70	EGAN	8/11/2012	2618	16.25	14.66	16.25	15.9	-0.35	-2.15	12827	12.827	20	325	318	68	EGAN	8/11/2012	2850	17.82	15.96	17.82	17.4	-0.42	-2.36	13964	13.964	20	356.4	348	-1.6	-8.81	-1.5					
81	FLAG	3/11/2012	2644	16.43	14.81	16.43	16.1	-0.33	-2.01	12949	12.949	20	328.6	322	78	FLAG	3/11/2012	2838	17.74	15.89	17.74	17.3	-0.44	-2.48	13905	13.905	20	354.8	346	-1.3	-7.38	-1.2					
71	GORE	5/11/2012	553	2.99	3.10	2.99	3	0.01	0.33	2708	2.708	20	59.8	60	84	GORE	5/11/2012	600	3.27	3.36	3.27	3.2	-0.07	-2.14	2941	2.941	20	65.4	64	-0.3	-8.56	-0.2					
88	JERD	5/11/2012	294.9	1.51	1.65	1.65	1.5	-0.15	-9.09	1447	1.447	20	33	30	87	JERD	5/11/2012	312	1.61	1.75	1.75	1.6	-0.15	-8.57	1527	1.527	20	35	32	-0.1	-5.71	-0.1					
69	KWOR	5/11/2012	675	3.72	3.78	3.72	3.7	-0.02	-0.54	3303	3.303	20	74.4	74	83	KWOR	5/11/2012	713	3.95	3.99	3.95	3.9	-0.05	-1.27	3494	3.494	20	79	78	-0.2	-5.82	-0.2					
68	NPAR	5/11/2012	1062	6.09	5.95	6.09	6	-0.09	-1.48	5205	5.205	20	121.8	120	86	NPAR	5/11/2012	1139	6.57	6.38	6.57	6.4	-0.17	-2.59	5582	5.582	20	131.4	128	-0.5	-7.31	-0.4					
85	PARK	3/11/2012	1536	9.10	8.60	9.1	8.9	-0.20	-2.20	7544	7.544	20	182	178	81	PARK	3/11/2012	1620	9.64	9.07	9.64	9.4	-0.24	-2.49	7937	7.937	20	192.8	188	-0.5	-5.60	-0.5					
86	RONN	4/11/2012	648	3.56	3.63	3.56	3.5	-0.06	-1.69	3170	3.17	20	71.2	70	79	RONN	4/11/2012	716	3.97	4.01	3.97	3.9	-0.07	-1.76	3511	3.511	20	79.4	78	-0.4	-10.33	-0.4					
78	STAT	6/11/2012	304	1.56	1.70	1.7	1.6	-0.10	-5.88	1486	1.486	20	34	32	75	STAT	6/11/2012	323	1.67	1.81	1.81	1.7	-0.11	-6.08	1578	1.578	20	36.2	34	-0.1	-6.08	-0.1					
74	WANN	9/11/2012	612	3.34	3.43	3.34	3.3	-0.04	-1.20	2997	2.997	20	66.8	66	70	WANN	9/11/2012	677	3.73	3.79	3.73	3.7	-0.03	-0.80	3316	3.316	20	74.6	74	-0.4	-10.46	-0.4					
83	WARD	5/11/2012	1772	10.63	9.92	10.63	10.4	-0.23	-2.16	8689	8.689	20	212.6	208	82	WARD	5/11/2012	2025	12.29	11.34	12.29	12	-0.29	-2.36	9922	9.922	20	245.8	240	-1.7	-13.51	-1.6					

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16	METT	11/09/2012	110.9	0.52	0.62	0.62	0.5	-0.12	-19.35	543	0.543				25	METT	11/09/2012	110.5	0.52	0.62	0.62	0.5	-0.12	-19.35	541	0.541						0.0	0.0	0	
17	MOAT	12/09/2012	84.2	0.39	0.47	0.47	0.4	-0.07	-14.89	412	0.412				7	MOAT	12/09/2012	84.2	0.39	0.47	0.47	0.4	-0.07	-14.89	412	0.412						0.0	0.0	0	
30	MORT	11/09/2012	1237	7.19	6.93	7.19	7	-0.19	-2.64	6065	6.065				57	MORT	11/09/2012	1229	7.14	6.88	7.14	6.9	-0.24	-3.36	6011	6.011						0.1	0.7	0.1	
37	MTLG	11/09/2012	64.7	0.29	0.36	0.36	0.3	-0.06	-16.67	317	0.317				70	MTLG	11/09/2012	64.6	0.29	0.36	0.36	0.3	-0.06	-16.67	316	0.316						0.0	0.0	0	
2	MUIR	10/09/2012	2653	16.49	14.86	16.49	15.9	-0.59	-3.58	13002	13.002				13	MUIR	10/09/2012	2634	16.36	14.75	16.36	15.8	-0.56	-3.42	12906	12.906						0.1	0.8	0.1	
11	NGOP	10/09/2012	49.1	0.21	0.27	0.27	0.2	-0.07	-25.93	240	0.24				21	NGOP	10/09/2012	49	0.21	0.27	0.27	0.2	-0.07	-25.93	240	0.24						0.0	0.0	0	
57	NINA	10/09/2012	23260	174.90	130.26	174.9								37	NINA	10/09/2012	23080	173.43	129.25	173.43												1.5	0.8	0	
4	NINA	10/09/2012	2628	16.32	14.72	16.32	15.7	-0.62	-3.80	12886	12.886	20	326.40	314.00	16	NINA	10/09/2012	2816	17.59	15.77	17.59	17.0	-0.59	-3.35	13800	13.8	20	351.8	340	-1.3	-7.2	-1.3			
77	NINE	8/09/2012	46.4	0.20	0.26	0.26	0.2	-0.06	-23.08	227	0.227				30	NINE	8/09/2012	46.1	0.20	0.26	0.26	0.2	-0.06	-23.08	226	0.226						0.0	0.0	0	
6	NOOB	10/09/2012	233.1	1.17	1.31	1.31	1.2	-0.11	-8.40	1143	1.143				9	NOOB	10/09/2012	232.3	1.17	1.30	1.30	1.2	-0.10	-7.69	1138	1.138						0.0	0.8	0	
62	NPAR	10/09/2012	6970	47.15	39.03	47.15	46.5	-0.65	-1.38						59	NPAR	10/09/2012	6900	46.63	38.64	46.63	46.0	-0.63	-1.35								0.5	1.1	0.5	
14	NPAR	10/09/2012	424	2.24	2.37	2.37	2.2	-0.17	-7.17	2080	2.08	20	47.40	44.00	20	NPAR	10/09/2012	461	2.46	2.58	2.58	2.4	-0.18	-6.98	2257	2.257	20	51.6	48	-0.2	-8.1	-0.2			
21	OWIN	12/09/2012	45.1	0.20	0.25	0.25	0.2	-0.05	-20.00	221	0.221				6	OWIN	12/09/2012	45.2	0.20	0.25	0.25	0.2	-0.05	-20.00	221	0.221						0.0	0.0	0	
51	PARK	8/09/2012	12540	89.31	70.22	89.31								79	PARK	8/09/2012	14360	103.50	80.42	103.50												-14.2	-13.7	0	
8	PARK	8/09/2012	1034	5.92	5.79	5.92	5.7	-0.22	-3.72	5064	5.064	20	118.40	114.00	13	PARK	8/09/2012	1108	6.38	6.20	6.38	6.2	-0.18	-2.82	5430	5.43	20	127.6	124	-0.5	-7.2	-0.5			
18	PLEA	12/09/2012	53.1	0.23	0.30	0.3	0.3	0.00	0.00	260	0.26				5	PLEA	12/09/2012	53.2	0.23	0.30	0.30	0.3	0.00	0.00	261	0.261						0.0	0.0	0	
5	POOR	10/09/2012	178.4	0.87	1.00	1	0.9	-0.10	-10.00	873	0.873				8	POOR	10/09/2012	178.2	0.87	1.00	1.00	0.9	-0.10	-10.00	874	0.874						0.0	0.0	0	
19	POWE	12/09/2012	100.4	0.47	0.56	0.56	0.5	-0.06	-10.71	492	0.492				2	POWE	12/09/2012	100.5	0.47	0.56	0.56	0.5	-0.06	-10.71	492	0.492						0.0	0.0	0	
39	RANG	9/09/2012	54.8	0.24	0.31	0.31	0.3	-0.01	-3.23	269	0.269				72	RANG	9/09/2012	54.8	0.24	0.31	0.31	0.3	-0.01	-3.23	268	0.268									
50	RONN	9/09/2012	22750	170.73	127.40	170.73								65	RONN	9/09/2012	22580	169.34	126.45	169.34												1.4	0.8	0	
6	RONN	9/09/2012	2650	16.47	14.84	16.47	15.8	-0.67	-4.07	12982	12.982	20	329.40	316.00	14	RONN	9/09/2012	2848	17.81	15.95	17.81	17.2	-0.61	-3.43	13956	13.956	20	356.2	344	-1.3	-7.5	-1.4			
34	SHAR	11/09/2012	547	2.96	3.06	2.96	2.9	-0.06	-2.03	2679	2.679				50	SHAR	11/09/2012	540	2.92	3.02	2.92	2.9	-0.02	-0.68	2649	2.649						0.0	1.4	0	
35	STAT	11/09/2012	3620	23.12	20.27	23.12	22.4	-0.72	-3.11	17745	17.745				51	STAT	11/09/2012	3590	22.91	20.10	22.91	22.2	-0.71	-3.10	17564	17.564						0.2	0.9	0.2	
60	TAAN	13/09/2012	7050	47.74	39.48	47.74	47.3	-0.44	-0.92						54	TAAN	13/09/2012	6980	47.22	39.09	47.22	46.9	-0.32	-0.68								0.5	1.1	0.4	
13	TAAN	13/09/2012	448	2.38	2.51	2.51	2.4	-0.11	-4.38	2198	2.198	20	50.20	48.00	22	TAAN	13/09/2012	479	2.56	2.68	2.68	2.5	-0.18	-6.72	2347	2.347	20	53.6	50	-0.2	-6.3	-0.1			
8	TORD	10/09/2012	854	4.80	4.78	4.8	4.7	-0.10	-2.08	4185	4.185				11	TORD	10/09/2012	849	4.77	4.75	4.77	4.7	-0.07	-1.47	4159	4.159						0.0	0.6	0	
28	TOWE	8/09/2012	1686	10.07	9.44	10.07	9.7	-0.37	-3.67	8260	8.26				77	TOWE	8/09/2012	1672	9.98	9.36	9.98	9.7	-0.28	-2.81	8193	8.193						0.1	0.9	0	
4	UNIC	10/09/2012	1906	11.51	10.67	11.51	11.1	-0.41	-3.56	9337	9.337				15	UNIC	10/09/2012	1891	11.41	10.59	11.41	11.0	-0.41	-3.59	9242	9.242						0.1	0.9	0.1	
54	WANN	13/09/2012	5180	34.14	29.01	34.14	33.3	-0.84	-2.46						43	WANN	13/09/2012	5140	33.85	28.78	33.85	33.2	-0.65	-1.92								0.3	0.9	0.1	
27	WANN	13/09/2012	329	1.70	1.84	1.84	1.7	-0.14	-7.61	1610	1.61	20	36.80	34.00	9	WANN	13/09/2012	339	1.76	1.90	1.90	1.8	-0.10	-5.26	1665	1.665	20	38	36	-0.1	-3.2	-0.1			
59	WARD	11/09/2012	18620	137.30	104.27	137.3								60	WARD	11/09/2012	18420	135.70	103.15	135.70													1.6	1.2	0
3	WARD	11/09/2012	1489	8.80	8.34	8.8	8.5	-0.30	-3.41	7290	7.29	20	176.00	170.00	19	WARD	11/09/2012	1577	9.36	8.83	9.36	9.1	-0.26	-2.78	7725	7.725	20	187.2	182	-0.6	-6.0	-0.6			
10	WARR	10/09/2012	60.9	0.27	0.34	0.34	0.3	-0.04	-11.76	298	0.298				24	WARR	10/09/2012	60.5	0.27	0.34	0.34	0.3	-0.04	-11.76	296	0.296						0.0	0.0	0	
52	WEST	8/09/2012	9440	65.58	52.86	65.58	66	0.42	0.64						78	WEST	8/09/2012	9300	64.52	52.08	64.52	65.5	0.98	1.52								1.1	1.6	0.5	
5	WEST	8/09/2012	620	3.39	3.47	3.39	3.3	-0.09	-2.65	3036	3.036	20	67.80	66.00	12	WEST	8/09/2012	659	3.62	3.69	3.62	3.5	-0.12	-3.31	3229	3.229	20	72.4	70	-0.2	-6.4	-0.2			
32	WHEA	11/09/2012	1375	8.07	7.70	8.07	7.8	-0.27	-3.35	6733	6.733				63	WHEA	11/09/2012	1353	7.93	7.58	7.93	7.8	-0.13	-1.64	6657	6.657						0.1	1.8	0	
23	WILS	13/09/2012	38.1	0.16	0.21	0.21	0.2	-0.01	-4.76	187	0.187				20	WILS	13/09/2012	38.1	0.16	0.21	0.21	0.2	-0.01	-4.76	187	0.187						0.0	0.0	0	
67	YAAL	9/09/2012	74.5	0.34	0.42	0.42	0.4	-0.02	-4.76	365	0.365				73	YAAL	9/09/2012	74.6	0.34	0.42	0.42	0.4	-0.02	-4.76	365	0.365						0.0	0.0	0	
12	YARN	10/09/2012	1176	6.80	6.59	6.8	6.6	-0.20	-2.94	5762	5.762				17	YARN	10/09/2012	1165	6.73	6.52	6.73	6.5	-0.23	-3.42	5705	5.705						0.1	1.0	0.1	
26	YEAG	13/09/2012	25.63	0.11	0.14	0.14	0.1	-0.04	-28.57	126	0.126				4	YEAG	13/09/2012	25.72	0.11	0.14	0.14	0.1	-0.04	-28.57	126	0.126						0.0	0.0	0	
64	YEAL	12/09/2012	21550	160.96	120.68	160.96								53	YEAL	12/09/2012	21290	158.85	119.22	158.85												2.1	1.3	0	
9	YEAL	12/09/2012	1970	11.93	11.03	11.93	11.5	-0.43	-3.60	9652	9.652	20	238.60	230.00	27	YEAL	12/09/2012	2102	12.80	11.77	12.80	12.4	-0.40	-3.13	10297	10.297	20	256	248	-					