

Table J.1. PCP column DO profile on day 267.

day 267	
Port	DO (mg/L)
1	16.4
2	1.2
3	1
4	0.8
5	0.8
6	1

Table J.2. PCP column OUR data.

Time (min)	Control DO (mg/L)	Normalized Control	10 ppm Shock DO (mg/L)	Normalized 10ppm
0.501	7.674	1.000	7.942	
0.601	7.662	0.998	7.919	
0.701	7.655	0.998	7.677	
0.801	7.635	0.995	7.520	
0.902	7.632	0.995	7.444	
1.001	7.615	0.992	7.415	1.000
1.102	7.593	0.989	7.398	0.998
1.202	7.573	0.987	7.371	0.994
1.302	7.542	0.983	7.361	0.993
1.402	7.529	0.981	7.349	0.991
1.502	7.502	0.978	7.330	0.989
1.603	7.488	0.976	7.317	0.987
1.703	7.456	0.972	7.278	0.982
1.803	7.437	0.969	7.253	0.978
1.903	7.410	0.966	7.232	0.975
2.003	7.388	0.963	7.199	0.971
2.103	7.366	0.960	7.194	0.970
2.203	7.336	0.956	7.160	0.966
2.303	7.309	0.952	7.141	0.963
2.404	7.297	0.951	7.121	0.960
2.504	7.270	0.947	7.104	0.958
2.604	7.224	0.941	7.075	0.954
2.704	7.214	0.940	7.043	0.950
2.804	7.189	0.937	7.028	0.948
2.905	7.163	0.933	7.002	0.944
3.004	7.147	0.931	6.980	0.941
3.105	7.099	0.925	6.973	0.940
3.205	7.091	0.924	6.938	0.936
3.306	7.060	0.920	6.927	0.934
3.405	7.033	0.916	6.885	0.929
3.505	7.006	0.913	6.855	0.924
3.606	6.984	0.910	6.821	0.920

Time (min)	20ppm PCP shock DO (mg/L)	20ppm normalized DO	50 ppm Shock DO (mg/L)	50ppm normalized DO
0.200	7.792		7.319	1
0.300	7.787		7.300	0.997
0.401	7.794	1.000	7.295	0.997
0.501	7.770	0.997	7.241	0.989
0.601	7.753	0.995	7.214	0.986
0.701	7.730	0.992	7.180	0.981
0.801	7.709	0.989	7.161	0.978
0.902	7.687	0.986	7.116	0.972
1.001	7.655	0.982	7.082	0.968
1.102	7.610	0.976	7.050	0.963
1.202	7.593	0.974	7.013	0.958
1.302	7.559	0.970	6.987	0.955
1.402	7.532	0.966	6.953	0.950
1.502	7.491	0.961	6.917	0.945
1.602	7.464	0.958	6.900	0.943
1.703	7.434	0.954	6.862	0.938
1.802	7.393	0.949	6.818	0.932
1.903	7.363	0.945	6.797	0.929
2.003	7.341	0.942	6.767	0.925
2.103	7.299	0.936	6.738	0.921
2.203	7.270	0.933	6.708	0.917
2.303	7.228	0.927	6.671	0.911
2.403	7.187	0.922	6.637	0.907
2.504	7.157	0.918	6.611	0.903
2.603	7.131	0.915	6.586	0.900
2.704	7.099	0.911	6.550	0.895
2.804	7.065	0.906	6.515	0.890
2.904	7.021	0.901	6.495	0.887
3.004	6.990	0.897	6.461	0.883
3.104	6.951	0.892	6.424	0.878
3.204	6.913	0.887	6.395	0.874
3.305	6.896	0.885	6.365	0.870

Time (min)	Control DO (mg/L)	Normalized Control	10 ppm Shock DO (mg/L)	Normalized 10ppm
3.705	6.968	0.908	6.804	0.918
3.805	6.940	0.904	6.777	0.914
3.906	6.913	0.901	6.770	0.913
4.006	6.884	0.897	6.743	0.909
4.107	6.857	0.894	6.718	0.906
4.206	6.833	0.890	6.699	0.903
4.307	6.803	0.886	6.672	0.900
4.407	6.781	0.884	6.640	0.895
4.506	6.754	0.880	6.615	0.892
4.607	6.722	0.876	6.578	0.887
4.707	6.703	0.873	6.552	0.884
4.807	6.676	0.870	6.520	0.879
4.907	6.647	0.866	6.518	0.879
5.007	6.613	0.862	6.498	0.876
5.108	6.590	0.859	6.466	0.872
5.208	6.554	0.854	6.439	0.868
5.307	6.544	0.853	6.402	0.863
5.408	6.510	0.848	6.387	0.861
5.508	6.490	0.846	6.368	0.859
5.609	6.446	0.840	6.338	0.855
5.708	6.422	0.837	6.309	0.851
5.808	6.387	0.832	6.295	0.849
5.909	6.363	0.829	6.282	0.847
6.009	6.348	0.827	6.238	0.841
6.109	6.307	0.822	6.206	0.837
6.209	6.279	0.818	6.175	0.833
6.309	6.248	0.814	6.158	0.830
6.410	6.220	0.811	6.145	0.829
6.510	6.201	0.808	6.103	0.823
6.610	6.167	0.804	6.074	0.819
6.710	6.142	0.800	6.048	0.816
6.810	6.116	0.797	6.018	0.812

Time (min)	20ppm PCP shock DO (mg/L)	20ppm normalized DO	50 ppm PCP Shock DO (mg/L)	50ppm normalized DO
3.404	6.847	0.878	6.339	0.866
3.505	6.820	0.875	6.307	0.862
3.605	6.779	0.870	6.275	0.857
3.705	6.738	0.865	6.234	0.852
3.805	6.723	0.863	6.201	0.847
3.905	6.678	0.857	6.180	0.844
4.006	6.649	0.853	6.152	0.841
4.106	6.598	0.847	6.114	0.835
4.206	6.559	0.842	6.089	0.832
4.306	6.541	0.839	6.064	0.829
4.406	6.488	0.832	6.042	0.826
4.507	6.461	0.829	6.006	0.821
4.606	6.422	0.824	5.974	0.816
4.706	6.367	0.817	5.947	0.813
4.807	6.343	0.814	5.906	0.807
4.907	6.306	0.809	5.876	0.803
5.007	6.265	0.804	5.857	0.800
5.107	6.233	0.800	5.814	0.794
5.207	6.193	0.795	5.783	0.790
5.307	6.164	0.791	5.749	0.785
5.407	6.116	0.785	5.731	0.783
5.508	6.074	0.779	5.693	0.778
5.608	6.052	0.776	5.658	0.773
5.708	6.003	0.770	5.636	0.770
5.808	5.968	0.766	5.604	0.766
5.908	5.931	0.761	5.563	0.760
6.008	5.883	0.755	5.543	0.757
6.109	5.851	0.751	5.509	0.753
6.208	5.807	0.745	5.472	0.748
6.309	5.772	0.741	5.447	0.744
6.409	5.734	0.736	5.416	0.740
6.509	5.687	0.730	5.388	0.736

Table J.2. PCP column OUR data. (Con't)

Time (min)	Control DO (mg/L)	Normalized Control	10 ppm Shock DO (mg/L)	Normalized 10ppm
6.911	6.076	0.792	6.016	0.811
7.010	6.047	0.788	5.996	0.809
7.110	6.020	0.784	5.966	0.805
7.211	5.993	0.781	5.944	0.802
7.311	5.985	0.780	5.928	0.799
7.411	5.942	0.774	5.901	0.796
7.511	5.917	0.771	5.878	0.793
7.611	5.883	0.767	5.837	0.787
7.712	5.846	0.762	5.837	0.787
7.811	5.829	0.760	5.778	0.779
7.912	5.792	0.755	5.746	0.775
8.012	5.761	0.751	5.722	0.772
8.111	5.755	0.750	5.700	0.769
8.212	5.701	0.743	5.683	0.766
8.312	5.685	0.741	5.660	0.763
8.413	5.648	0.736	5.628	0.759
8.512	5.621	0.732	5.612	0.757
8.612	5.598	0.729	5.584	0.753
8.713	5.565	0.725	5.575	0.752
8.813	5.523	0.720	5.528	0.746
8.913	5.496	0.716	5.499	0.742
9.013	5.472	0.713	5.479	0.739
9.113	5.439	0.709	5.457	0.736
9.214	5.412	0.705	5.435	0.733
9.314	5.373	0.700	5.413	0.730
9.414	5.351	0.697	5.377	0.725
9.514	5.317	0.693	5.350	0.722
9.614	5.297	0.690	5.330	0.719
9.714	5.261	0.686	5.303	0.715
9.814	5.227	0.681	5.281	0.712
9.915	5.199	0.677	5.242	0.707
10.015	5.161	0.673	5.230	0.705
10.115	5.143	0.670	5.176	0.698

Time (min)	20ppm PCP shock DO (mg/L)	20ppm normalized DO	50 ppm PCP Shock DO (mg/L)	50ppm normalized DO
6.609	5.653	0.725	5.354	0.732
6.709	5.604	0.719	5.317	0.726
6.810	5.567	0.714	5.284	0.722
6.910	5.535	0.710	5.251	0.717
7.009	5.486	0.704	5.232	0.715
7.110	5.449	0.699	5.193	0.710
7.210	5.415	0.695	5.168	0.706
7.311	5.364	0.688	5.124	0.700
7.410	5.330	0.684	5.100	0.697
7.510	5.290	0.679	5.071	0.693
7.611	5.246	0.673	5.036	0.688
7.710	5.202	0.667	4.994	0.682
7.811	5.150	0.661	4.962	0.678
7.911	5.123	0.657	4.929	0.673
8.011	5.067	0.650	4.901	0.670
8.111	5.040	0.647	4.870	0.665
8.211	4.989	0.640	4.835	0.661
8.312	4.943	0.634	4.809	0.657
8.412	4.910	0.630	4.777	0.653
8.512	4.857	0.623	4.747	0.649
8.612	4.828	0.619	4.706	0.643
8.712	4.779	0.613	4.671	0.638
8.813	4.727	0.606	4.645	0.635
8.913	4.698	0.603	4.612	0.630
9.012	4.649	0.596	4.585	0.626
9.113	4.600	0.590	4.542	0.621
9.213	4.570	0.586	4.512	0.616
9.314	4.516	0.579	4.483	0.613
9.413	4.479	0.575	4.441	0.607
9.513	4.431	0.569	4.404	0.602
9.614	4.387	0.563	4.375	0.598
9.714	4.338	0.557	4.336	0.592
9.814	4.293	0.551	4.306	0.588

Table J.2. PCP column OUR data. (Con't)

Time (min)	Control DO (mg/L)	Normalized Control	10 ppm Shock DO (mg/L)	Normalized 10ppm
10.215	5.106	0.665	5.149	0.694
10.315	5.074	0.661	5.119	0.690
10.416	5.048	0.658	5.095	0.687
10.515	5.014	0.653	5.092	0.687
10.615	4.984	0.649	5.055	0.682
10.716	4.954	0.646	5.028	0.678
10.816	4.923	0.642	4.994	0.673
10.916	4.899	0.638	4.958	0.669
11.016	4.859	0.633	4.950	0.668
11.116	4.828	0.629	4.946	0.667
11.217	4.803	0.626	4.913	0.663
11.316	4.769	0.621	4.879	0.658
11.417	4.742	0.618	4.843	0.653
11.517	4.717	0.615	4.811	0.649
11.617	4.690	0.611	4.808	0.648
11.717	4.658	0.607	4.776	0.644
11.817	4.617	0.602	4.735	0.639
11.918	4.585	0.597	4.716	0.636
12.018	4.563	0.595	4.716	0.636
12.117	4.524	0.590	4.701	0.634
12.218	4.507	0.587	4.681	0.631
12.318	4.467	0.582	4.652	0.627
12.418	4.438	0.578	4.605	0.621
12.518	4.409	0.575	4.578	0.617
12.618	4.374	0.570	4.551	0.614
12.719	4.353	0.567	4.525	0.610
12.819	4.320	0.563	4.509	0.608
12.918	4.288	0.559	4.480	0.604
13.019	4.257	0.555	4.466	0.602
13.119	4.225	0.551	4.456	0.601
13.219	4.208	0.548	4.419	0.596
13.319	4.166	0.543	4.395	0.593
13.419	4.137	0.539	4.368	0.589

Time (min)	20ppm PCP shock DO (mg/L)	20ppm normalized DO	50 ppm PCP Shock DO (mg/L)	50ppm normalized DO
9.914	4.262	0.547	4.270	0.583
10.014	4.208	0.540	4.240	0.579
10.115	4.159	0.534	4.211	0.575
10.214	4.125	0.529	4.172	0.570
10.315	4.071	0.522	4.142	0.566
10.415	4.034	0.518	4.105	0.561
10.514	3.987	0.512	4.066	0.556
10.615	3.933	0.505	4.035	0.551
10.715	3.899	0.500	4.003	0.547
10.816	3.851	0.494	3.978	0.544
10.915	3.794	0.487	3.941	0.538
11.015	3.757	0.482	3.905	0.534
11.116	3.709	0.476	3.873	0.529
11.216	3.676	0.472	3.831	0.523
11.316	3.620	0.464	3.799	0.519
11.416	3.566	0.458	3.767	0.515
11.516	3.530	0.453	3.729	0.509
11.617	3.476	0.446	3.699	0.505
11.717	3.444	0.442	3.662	0.500
11.817	3.390	0.435	3.621	0.495
11.917	3.338	0.428	3.592	0.491
12.017	3.297	0.423	3.559	0.486
12.117	3.238	0.415	3.532	0.483
12.217	3.216	0.413	3.491	0.477
12.317	3.162	0.406	3.449	0.471
12.418	3.109	0.399	3.418	0.467
12.517	3.067	0.394	3.378	0.462
12.618	3.016	0.387	3.351	0.458
12.718	2.979	0.382	3.317	0.453
12.818	2.925	0.375	3.280	0.448
12.918	2.878	0.369	3.246	0.444
13.018	2.837	0.364	3.209	0.438
13.119	2.785	0.357	3.182	0.435

Table J.2. PCP column OUR data. (Con't)

Time (min)	Control DO (mg/L)	Normalized Control	10 ppm Shock DO (mg/L)	Normalized 10ppm
13.520	4.118	0.537	4.329	0.584
13.620	4.075	0.531	4.307	0.581
13.720	4.051	0.528	4.291	0.579
13.820	4.020	0.524	4.260	0.575
13.920	3.987	0.520	4.250	0.573
14.021	3.963	0.516	4.226	0.570
14.120	3.926	0.512	4.201	0.567
14.221	3.899	0.508	4.160	0.561
14.321	3.868	0.504	4.140	0.558
14.421	3.835	0.500	4.133	0.557
14.521	3.804	0.496	4.106	0.554
14.621	3.767	0.491	4.083	0.551
14.722	3.740	0.487	4.056	0.547
14.821	3.713	0.484	4.035	0.544
14.921	3.677	0.479	4.008	0.541
15.022	3.652	0.476	3.971	0.536
15.122	3.616	0.471	3.949	0.533
15.222	3.579	0.466	3.924	0.529
15.322	3.552	0.463	3.897	0.526
15.422	3.522	0.459	3.893	0.525
15.523	3.495	0.455	3.859	0.520
15.623	3.451	0.450	3.831	0.517
15.723	3.420	0.446	3.807	0.513
15.823	3.393	0.442	3.780	0.510
15.923	3.363	0.438	3.767	0.508
16.024	3.316	0.432	3.739	0.504
16.123	3.290	0.429	3.707	0.500
16.224	3.261	0.425	3.677	0.496
16.324	3.229	0.421	3.650	0.492
16.424	3.189	0.416	3.626	0.489
16.524	3.155	0.411	3.599	0.485
16.624	3.125	0.407	3.581	0.483
16.725	3.087	0.402	3.555	0.479

Time (min)	20ppm PCP shock DO (mg/L)	20ppm normalized DO	50 ppm PCP Shock DO (mg/L)	50ppm normalized DO	Table J.2. PCP column OUR data. (Con't)
13.219	2.734	0.351	3.144	0.430	
13.319	2.695	0.346	3.106	0.424	
13.419	2.646	0.339	3.077	0.420	
13.519	2.601	0.334	3.038	0.415	
13.620	2.548	0.327	2.999	0.410	
13.719	2.497	0.320	2.969	0.406	
13.819	2.457	0.315	2.926	0.400	
13.920	2.403	0.308	2.898	0.396	
14.020	2.366	0.304	2.855	0.390	
14.120	2.313	0.297	2.822	0.386	
14.220	2.264	0.290	2.796	0.382	
14.320	2.224	0.285	2.754	0.376	
14.421	2.166	0.278	2.727	0.373	
14.520	2.119	0.272	2.683	0.367	
14.620	2.078	0.267	2.644	0.361	
14.721	2.028	0.260	2.617	0.358	
14.821	1.980	0.254	2.578	0.352	
14.921	1.931	0.248	2.551	0.349	
15.021	1.879	0.241	2.511	0.343	
15.121	1.835	0.235	2.467	0.337	
15.222	1.782	0.229	2.440	0.333	
15.321	1.744	0.224	2.401	0.328	
15.422	1.689	0.217	2.362	0.323	
15.522	1.639	0.210	2.330	0.318	
15.622	1.597	0.205	2.287	0.312	
15.722	1.544	0.198	2.259	0.309	
15.822	1.502	0.193	2.220	0.303	
15.923	1.446	0.186	2.178	0.298	
16.023	1.395	0.179	2.151	0.294	
16.122	1.353	0.174	2.112	0.289	
16.223	1.299	0.167	2.080	0.284	
16.323	1.242	0.159	2.039	0.279	
16.423	1.199	0.154	1.998	0.273	

Time (min)	Control DO (mg/L)	Normalized Control	10 ppm Shock DO (mg/L)	Normalized 10ppm
16.824	3.059	0.399	3.523	0.475
16.924	3.021	0.394	3.498	0.472
17.025	2.986	0.389	3.479	0.469
17.125	2.954	0.385	3.437	0.464
17.226	2.917	0.380	3.420	0.461
17.325	2.886	0.376	3.391	0.457
17.425	2.847	0.371	3.363	0.454
17.526	2.807	0.366	3.339	0.450
17.625	2.780	0.362	3.293	0.444
17.726	2.736	0.357	3.280	0.442
17.826	2.700	0.352	3.254	0.439
17.926	2.668	0.348	3.224	0.435
18.027	2.629	0.343	3.210	0.433
18.126	2.602	0.339	3.168	0.427
18.227	2.558	0.333	3.133	0.423
18.327	2.518	0.328	3.114	0.420
18.427	2.487	0.324	3.084	0.416
18.527	2.445	0.319	3.067	0.414
18.627	2.413	0.314	3.028	0.408
18.728	2.374	0.309	2.997	0.404
18.827	2.332	0.304	2.977	0.401
18.927	2.300	0.300	2.947	0.397
19.028	2.257	0.294	2.921	0.394
19.128	2.225	0.290	2.879	0.388
19.229	2.185	0.285	2.852	0.385
19.328	2.142	0.279	2.839	0.383
19.428	2.114	0.275	2.801	0.378
19.529	2.066	0.269	2.771	0.374
19.628	2.024	0.264	2.737	0.369
19.729	1.995	0.260	2.700	0.364
19.829	1.946	0.254	2.681	0.362
19.929	1.916	0.250	2.648	0.357
20.029	1.872	0.244	2.617	0.353

Time (min)	20ppm PCP shock DO (mg/L)	20ppm normalized DO	50 ppm PCP Shock DO (mg/L)	50ppm normalized DO
16.523	1.147	0.147	1.968	0.269
16.623	1.106	0.142	1.926	0.263
16.724	1.051	0.135	1.887	0.258
16.824	0.996	0.128	1.853	0.253
16.923	0.958	0.123	1.812	0.248
17.024	0.900	0.115	1.782	0.243
17.124	0.861	0.110	1.741	0.238
17.225	0.800	0.103	1.703	0.233
17.324	0.748	0.096	1.671	0.228
17.424	0.704	0.090	1.635	0.223
17.525	0.652	0.084	1.603	0.219
17.625	0.608	0.078	1.564	0.214
17.724	0.550	0.071	1.520	0.208
17.825	0.498	0.064	1.490	0.204
17.925	0.452	0.058	1.451	0.198
18.025	0.398	0.051	1.420	0.194
18.125	0.342	0.044	1.376	0.188
18.225	0.302	0.039	1.338	0.183
18.326	0.246	0.032	1.302	0.178
18.426	0.207	0.027	1.261	0.172
18.526	0.178	0.023	1.219	0.167
18.626	0.163	0.021	1.190	0.163
18.726	0.156	0.020	1.147	0.157
18.826	0.151	0.019	1.116	0.152
18.926	0.146	0.019	1.074	0.147
19.027	0.139	0.018	1.033	0.141
19.127	0.138	0.018	1.003	0.137
19.228	0.133	0.017	0.961	0.131
19.327	0.129	0.017	0.930	0.127
19.427	0.126	0.016	0.885	0.121
19.528	0.124	0.016	0.841	0.115
19.628	0.119	0.015	0.808	0.110
19.728	0.117	0.015	0.768	0.105

Table J.2. PCP column OUR data. (Con't)

Time (min)	Control DO (mg/L)	Normalized Control	10 ppm Shock DO (mg/L)	Normalized 10ppm
20.129	1.830	0.238	2.590	0.349
20.230	1.791	0.233	2.560	0.345
20.330	1.749	0.228	2.533	0.342
20.430	1.715	0.223	2.506	0.338
20.530	1.671	0.218	2.463	0.332
20.630	1.624	0.212	2.440	0.329
20.731	1.593	0.208	2.409	0.325
20.830	1.547	0.202	2.380	0.321
20.931	1.514	0.197	2.345	0.316
21.031	1.466	0.191	2.301	0.310
21.131	1.422	0.185	2.281	0.308
21.231	1.389	0.181	2.244	0.303
21.331	1.341	0.175	2.215	0.299
21.431	1.296	0.169	2.193	0.296
21.532	1.260	0.164	2.154	0.290
21.631	1.213	0.158	2.127	0.287
21.732	1.177	0.153	2.093	0.282
21.832	1.128	0.147	2.054	0.277
21.932	1.084	0.141	2.024	0.273
22.032	1.047	0.136	1.985	0.268
22.132	1.002	0.131	1.958	0.264
22.233	0.966	0.126	1.919	0.259
22.333	0.917	0.119	1.892	0.255
22.433	0.868	0.113	1.858	0.251
22.533	0.832	0.108	1.829	0.247
22.633	0.785	0.102	1.801	0.243
22.733	0.750	0.098	1.758	0.237
22.833	0.701	0.091	1.720	0.232
22.933	0.653	0.085	1.684	0.227
23.034	0.616	0.080	1.659	0.224
23.134	0.565	0.074	1.632	0.220
23.234	0.518	0.068	1.601	0.216
23.334	0.479	0.062	1.550	0.209

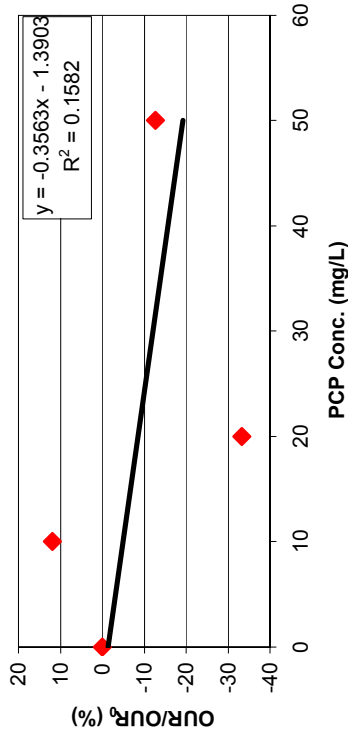
Time (min)	20ppm PCP shock DO (mg/L)	20ppm normalized DO	50 ppm PCP Shock DO (mg/L)	50ppm normalized DO	Table J.2. PCP column OUR data. (Con't)
19.828	0.117	0.015	0.736	0.101	
19.928	0.116	0.015	0.697	0.095	
20.028	0.114	0.015	0.651	0.089	
20.128	0.109	0.014	0.616	0.084	
20.229	0.107	0.014	0.573	0.078	
20.329	0.107	0.014	0.545	0.074	
20.428	0.107	0.014	0.502	0.069	
20.529	0.102	0.013	0.462	0.063	
20.629	0.102	0.013	0.425	0.058	
20.730	0.101	0.013	0.384	0.052	
20.830	0.101	0.013	0.339	0.046	
20.929	0.101	0.013	0.308	0.042	
21.030	0.097	0.012	0.266	0.036	
21.130	0.095	0.012	0.232	0.032	
21.230	0.095	0.012	0.188	0.026	
21.330	0.094	0.012	0.144	0.020	
21.430	0.095	0.012	0.114	0.016	
21.531	0.094	0.012	0.073	0.010	
21.631	0.090	0.012	0.038	0.005	
21.731	0.092	0.012			
21.831	0.090	0.012			
21.931	0.090	0.012			
22.031	0.092	0.012			
22.131	0.090	0.012			
22.232	0.085	0.011			
22.332	0.089	0.011			

**Table
J.2. PCP
column
OUR
data.
(Con't)**

Time (min)	Control DO (mg/L)	Normalized Control	10 ppm Shock DO (mg/L)	Normalized 10ppm
23.434	0.432	0.056	1.523	0.205
23.535	0.395	0.051	1.483	0.200
23.634	0.347	0.045	1.446	0.195
23.735	0.297	0.039	1.424	0.192
23.835	0.263	0.034	1.388	0.187
23.935	0.216	0.028	1.359	0.183
24.035	0.190	0.025	1.310	0.177
24.135	0.173	0.023	1.273	0.172
24.236	0.163	0.021	1.245	0.168
24.336	0.158	0.021	1.201	0.162
24.435	0.153	0.020	1.174	0.158
24.536	0.150	0.020	1.130	0.152
24.636	0.145	0.019	1.086	0.146
24.736	0.141	0.018	1.059	0.143
24.836	0.138	0.018	1.025	0.138
24.936	0.134	0.017	0.988	0.133
25.037	0.133	0.017	0.955	0.129
25.136	0.129	0.017	0.918	0.124
25.237	0.128	0.017	0.896	0.121
25.337	0.126	0.016	0.852	0.115
25.437	0.124	0.016	0.810	0.109
25.538	0.121	0.016	0.778	0.105
25.637	0.119	0.016	0.737	0.099
25.738	0.119	0.016	0.704	0.095
25.838	0.117	0.015	0.665	0.090
25.937	0.116	0.015	0.622	0.084
26.038	0.114	0.015	0.587	0.079
26.138	0.114	0.015	0.548	0.074
26.239	0.112	0.015	0.511	0.069
26.338	0.111	0.014	0.474	0.064
26.438	0.109	0.014	0.431	0.058
26.539	0.107	0.014	0.406	0.055
26.639	0.107	0.014	0.366	0.049
26.740	0.106	0.014	0.332	0.045

Table J.2. PCP column OUR data. (Con't)

PCP Conc (ppm)	OUR	OUR/OUR0 (%)
0	-0.0411	0
10	-0.0362	11.9221411
20	-0.0548	-33.3333333
50	-0.0463	-12.652068



Sample Name	Amount µg/ml PCP-18 ECD	Extraction ratio 1:10 (sample: hexane)	Average of duplicate injections	Standard Deviation of duplicate samples	Average of duplicate samples
OUR_cont_a_1:10dil	-0.0844	-0.84356972	-0.823630937	0.089686229	-0.887048677
OUR_cont_a	-0.0804	-0.803692154			
OUR_cont_b	-0.0983	-0.983428682	-0.950466418		
OUR_cont_b	-0.0918	-0.917504155			
OUR_10ppm_a_1:10dil	1.2882	12.8822657	13.19426323	0.477852096	13.53215569
OUR_10ppm_a	1.3506	13.50626076			
OUR_10ppm_b	1.4079	14.07873899	13.87004815		
OUR_10ppm_b	1.3661	13.6613573			
OUR_20ppm_a_1:10dil	2.4952	24.95203556	24.46379641	0.215700449	24.61631966
OUR_20ppm_a	2.3976	23.97555726			
OUR_20ppm_b	2.4862	24.86172253	24.76884291		
OUR_20ppm_b	2.4676	24.67596329			
OUR_50ppm_a_1:20dil	2.9693	59.38501082	57.65841505	4.279424414	54.63240503
OUR_50ppm_a	2.7966	55.93181928			
OUR_50ppm_b	2.4679	49.35778409	51.60639501		
OUR_50ppm_b	2.6928	53.85500592			

Table J.3. PCP concentration during PCP perturbation day 218.

Appendix J

PCP Conc (mg/L)

Location	Set A	s set A	Set B	s set B	Set C	s set C	Set D	s set D
1	3.968	0.084	8.953	1.179	15.948	1.591	8.644	0.482
2	3.930	0.011	14.994	0.161	20.690	1.618	12.805	0.042
3	4.058	0.027	18.765	0.001	24.776	0.656	11.977	0.269
4	3.645	0.506	19.620	0.234	22.937	1.626	11.893	0.346
5	3.509	0.337	22.049	0.075	26.080	0.046	13.350	0.566
6	3.563	0.375	17.811	0.633	24.751	0.451	12.014	0.011
7	3.334	0.120						

Table J.3a. PCP concentration during PCP perturbation day 218.

Sample Name	Amount		Extraction ratio 1:4 (sample: hexane)	Average of duplicate injections	Standard Deviation of duplicate samples	Average of duplicate samples
	µg/ml PCP-18 ECD	µg/ml				
9_09_03_PL1_A_a_1-4dil	0.9664	3.865440557	3.908710427	0.084026371	3.968126044	
9_09_03_PL1_A_a	0.9880	3.951980297				
9_09_03_PL1_A_b	1.0296	4.11832139	4.027541661			
9_09_03_PL1_A_b	0.9842	3.936761932				
9_09_03_PL2_A_a	0.9102	3.64079275	3.922432705	0.010650075	3.929963445	
9_09_03_PL2_A_a	1.0510	4.204072661				
9_09_03_PL2_A_b	0.9819	3.927429808	3.937494186			
9_09_03_PL2_A_b	0.9869	3.947558563				
9_09_03_PL3_A_a	1.0113	4.045177166	4.077235778	0.026816697	4.05827351	
9_09_03_PL3_A_a	1.0273	4.109294391				
9_09_03_PL3_A_b	1.0054	4.021601162	4.039311242			
9_09_03_PL3_A_b	1.0143	4.057021322				
9_09_03_PL4_A_a	0.9795	3.917864386	4.003384362	0.506229311	3.645426183	
9_09_03_PL4_A_a	1.0222	4.088904338				
9_09_03_PL4_A_b	0.8464	3.385629982	3.287468005			
9_09_03_PL4_A_b	0.7973	3.189306027				
9_09_03_PL5_A_a	0.7949	3.179799912	3.270672924	0.337479938	3.509307277	
9_09_03_PL5_A_a	0.8404	3.361545937				
9_09_03_PL5_A_b	0.9682	3.872891414	3.74794163			
9_09_03_PL5_A_b	0.9057	3.622991847				
9_09_03_PL6_A_a	0.9604	3.841570301	3.828149117	0.375427293	3.562681932	
9_09_03_PL6_A_a	0.9537	3.814727933				
9_09_03_PL6_A_b	0.8844	3.537609346	3.297214747			
9_09_03_PL6_A_b	0.7642	3.056820148				
9_09_03_PL7_A_a	0.7869	3.147657214	3.248611292	0.120426917	3.333765982	
9_09_03_PL7_A_a	0.8374	3.34956537				
9_09_03_PL7_A_b	0.8537	3.414643127	3.418920672			
9_09_03_PL7_A_b	0.8558	3.423198217				
9_09_03_PCP_bottle_a	1.3815	13.81520092	13.64335646	0.446687801	13.95921243	
9_09_03_PCP_bottle_a	1.3472	13.471512				
9_09_03_PCP_bottle_b	1.4208	14.20831716	14.27506841			
9_09_03_PCP_bottle_b	1.4342	14.34181965				

Table J.3a. PCP concentration during PCP perturbation day 218. (cont')

Sample Name	Amount		Extraction ratio 1:10 (sample: hexane)	Average of duplicate injections	Standard Deviation of duplicate samples	Average of duplicate samples
	µg/ml PCP-18 ECD	µg/ml PCP-18 ECD				
9_09_03_PL1_B_a_1:10dil	1.0031	10.03072938	9.786703906	1.179003005	8.953022887	
9_09_03_PL1_B_a	0.9543	9.542678434				
9_09_03_PL1_B_b	0.8346	8.346077504	8.119341867			
9_09_03_PL1_B_b	0.7893	7.89260623				
9_09_03_PL2_B_a	1.4799	14.79884559	14.87999214	0.160975473	14.99381899	
9_09_03_PL2_B_a	1.4961	14.96113868				
9_09_03_PL2_B_b	1.5212	15.21239614	15.10764583			
9_09_03_PL2_B_b	1.5003	15.00289552				
9_09_03_PL3_B_a	1.8918	18.91812395	18.76602685	0.000824144	18.76544409	
9_09_03_PL3_B_a	1.8614	18.61392974				
9_09_03_PL3_B_b	1.8332	18.33204075	18.76486133			
9_09_03_PL3_B_b	1.9198	19.19768191				
9_09_03_PL4_B_a	2.0397	20.39701596	19.78487896	0.233619873	19.61968476	
9_09_03_PL4_B_a	1.9173	19.17274196				
9_09_03_PL4_B_b	1.7576	17.57630218	19.45449057			
9_09_03_PL4_B_b	2.1333	21.33267896				
9_09_03_PL5_B_a	2.1964	21.96429702	21.99540865	0.075168379	22.04856072	
9_09_03_PL5_B_a	2.2027	22.02652027				
9_09_03_PL5_B_b	2.1719	21.71929815	22.10171279			
9_09_03_PL5_B_b	2.2484	22.48412743				
9_09_03_PL6_B_a	2.0008	20.00808087	18.25699976	0.633077755	17.81134619	
9_09_03_PL6_B_a	1.6510	16.50991866				
9_09_03_PL6_B_b	1.7156	17.15568183	17.36369262			
9_09_03_PL6_B_b	1.7572	17.57170341				

Table J.3a. PCP concentration during PCP perturbation day 218. (cont)

Sample Name	Amount		Extraction ratio 1:10 (sample: hexane)	Average of duplicate injections	Standard Deviation of duplicate samples	Average of duplicate samples
	µg/ml PCP-18 ECD	µg/ml PCP-18 ECD				
9_09_03_PL1_C_a_1:10di	1.7155	17.15486478	17.07308623	1.591187192	15.94794698	
9_09_03_PL1_C_a	1.6991	16.99130768				
9_09_03_PL1_C_b	1.5293	15.29276416	14.82280772			
9_09_03_PL1_C_b	1.4353	14.35285128				
9_09_03_PL2_C_a	2.2683	22.6829461	21.83352434	1.617811707	20.68955871	
9_09_03_PL2_C_a	2.0984	20.98410258				
9_09_03_PL2_C_b	2.0219	20.21929361	19.54559308			
9_09_03_PL2_C_b	1.8872	18.87189255				
9_09_03_PL3_C_a	2.6799	26.79855216	25.24043411	0.656448304	24.77625506	
9_09_03_PL3_C_a	2.3682	23.68231605				
9_09_03_PL3_C_b	2.4093	24.09267802	24.31207601			
9_09_03_PL3_C_b	2.4531	24.53147401				
9_09_03_PL4_C_a	2.3714	23.71442528	24.08696062	1.625838104	22.93731947	
9_09_03_PL4_C_a	2.4459	24.45949596				
9_09_03_PL4_C_b	2.2232	22.23205494	21.78767832			
9_09_03_PL4_C_b	2.1343	21.3433017				
9_09_03_PL5_C_a	2.6563	26.56325441	26.04756739	0.045962449	26.08006775	
9_09_03_PL5_C_a	2.5532	25.53188038				
9_09_03_PL5_C_b	2.6672	26.6717653	26.11256811			
9_09_03_PL5_C_b	2.5553	25.55337093				
9_09_03_PL6_C_a	2.5042	25.04184301	25.07015755	0.451409534	24.75096281	
9_09_03_PL6_C_a	2.5098	25.0984721				
9_09_03_PL6_C_b	2.4948	24.94771357	24.43176807			
9_09_03_PL6_C_b	2.3916	23.91582256				

Table J.3a. PCP concentration during PCP perturbation day 218. (cont')

Sample Name	Amount		Extraction ratio 1:10 (sample: hexane)	Average of duplicate injections	Standard Deviation of duplicate samples	Average of duplicate samples
	µg/ml PCP-18 ECD	µg/ml				
hexane	-0.1726					
9_09_03_PL1_D_a_1-4dil	2.2788	9.115392587	8.985196392	0.481870944	8.64446218	
9_09_03_PL1_D_a	2.2138	8.855000198				
9_09_03_PL1_D_b	2.1597	8.638716062	8.303727968			
9_09_03_PL1_D_b	1.9922	7.968739874				
9_09_03_PL2_D_a	2.7285	10.91396009	12.77504323	0.042204465	12.80488629	
9_09_03_PL2_D_a	3.6590	14.63612637				
9_09_03_PL2_D_b	2.8071	11.22845421	12.83472936			
9_09_03_PL2_D_b	3.6103	14.4410045				
9_09_03_PL3_D_a	2.8830	11.53200082	11.78728396	0.268527269	11.97716142	
9_09_03_PL3_D_a	3.0106	12.04256711				
9_09_03_PL3_D_b	3.0911	12.36424047	12.16703887			
9_09_03_PL3_D_b	2.9925	11.96983727				
9_09_03_PL4_D_a	3.0482	12.19282411	12.13737219	0.34571279	11.89291633	
9_09_03_PL4_D_a	3.0205	12.08192028				
9_09_03_PL4_D_b	3.0561	12.22446468	11.64846047			
9_09_03_PL4_D_b	2.7681	11.07245627				
9_09_03_PL5_D_a	3.1369	12.54740499	12.94929427	0.566379499	13.34978505	
9_09_03_PL5_D_a	3.3378	13.35118354				
9_09_03_PL5_D_b	3.4688	13.87538218	13.75027584			
9_09_03_PL5_D_b	3.4063	13.6251695				
9_09_03_PL6_D_a	3.0362	12.14470616	12.02188613	0.011003339	12.01410559	
9_09_03_PL6_D_a	2.9748	11.8990661				
9_09_03_PL6_D_b	3.0390	12.1561187	12.00632506			
9_09_03_PL6_D_b	2.9641	11.85653142				