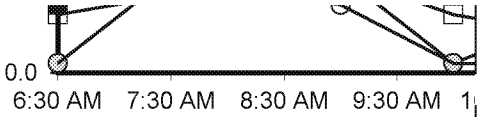
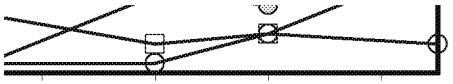
38	Valencia Outfall w/ 50% NaOH to pH 12	32262	11:30 AM	0.8					
46	Valencia Outfall w/ 50% NaOH to pH 12	32270	12:30 PM	0.7					
54	Valencia Outfall w/ 50% NaOH to pH 12	32278	2:00 PM	1.6					
7	Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32231	6:30 AM	0.6					
15	Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32239	7:30 AM	0.8					
23	Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32247	9:00 AM	1.0		8.21	250		8.21
31	Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32255	10:00 AM	0.6		8.19	250		8.19
39	Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32263	11:30 AM	0.3		8.20	250		8.2
47	Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32271	12:30 PM	0.4		8.34	250		8.34
55	Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32279	2:00 PM	1.1		8.27	250		8.27
8	Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32232	6:30 AM	0.7		8.22	250	0.7	12.01
16	Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32240	7:30 AM	1.6		8.33	250	0.7	12.02
24	Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32248	9:00 AM	1.4		8.21	250	0.7	12.01
32	Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32256	10:00 AM	1.0		8.19	250	0.7	12.01
40	Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32264	11:30 AM	1.3		8.2	250	0.7	12.01
48	Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32272	12:30 PM	1.4		8.34	250	0.7	12.01
56	Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32280	2:00 PM	3.1		8.27	250	0.8	12.05
	Any values less than 1 were entered as 0.9 for graphing and averagin								





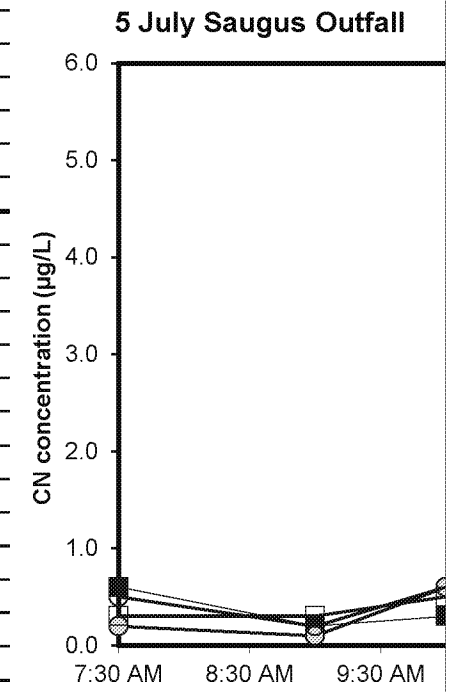
0:30 AM 11:30 AM 12:30 PM 1:30 PM

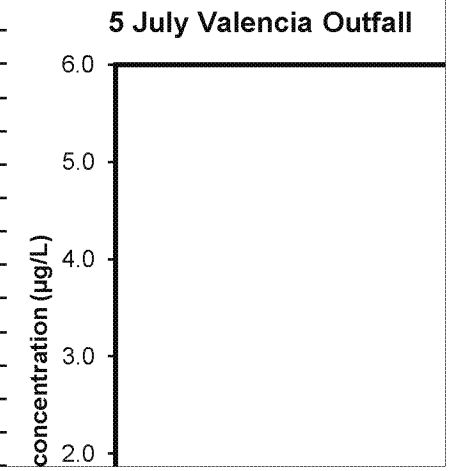
ling Time

CYANIDE PROJECT: VALENCIA / SAUGUS FINAL EFFLUENT TEMPORAL STUDY-23 pH RECORD

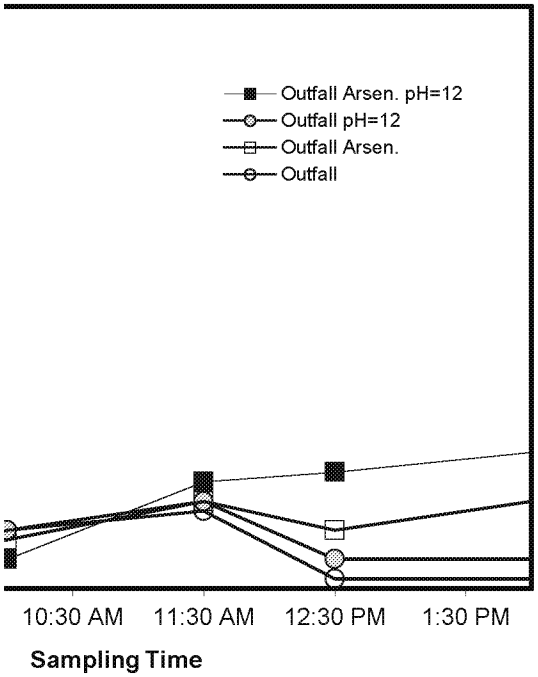
DATE: 07/05/05 5 cm cell

	Description	Log -In #	Time Collected	Cyanide µg/L	Initial pH	Initial Vol. (mL)	Vol. Of 50% NaOH in mL
1	CN Res. Saugus Outfall pH7.	32366	6:30 AM	0.1			
9	CN Res. Saugus Outfall pH7.	32374	7:30 AM	0.5			
17	CN Res. Saugus Outfall pH7.	32382	9:00 AM	0.2			
25	CN Res. Saugus Outfall pH7.	32390	10:00 AM	0.6			
33	CN Res. Saugus Outfall pH7.	32398	11:30 AM	0.8			
41	CN Res. Saugus Outfall pH7.	32406	12:30 PM	0.1			
49	CN Res. Saugus Outfall pH7.	32414	2:00 PM	0.1			
2	CN Res. Saugus Outfall w/ 50% NaOH to pH 12	32367	6:30 AM	0.9			
10	CN Res. Saugus Outfall w/ 50% NaOH to pH 12	32375	7:30 AM	0.2			
18	CN Res. Saugus Outfall w/ 50% NaOH to pH 12	32383	9:00 AM	0.1			
26	CN Res. Saugus Outfall w/ 50% NaOH to pH 12	32391	10:00 AM	0.6			
34	CN Res. Saugus Outfall w/ 50% NaOH to pH 12	32399	11:30 AM	0.9			
42	CN Res. Saugus Outfall w/ 50% NaOH to pH 12	32407	12:30 PM	0.3			
50	CN Res. Saugus Outfall w/ 50% NaOH to pH 12	32415	2:00 PM	0.3			
3	CN Res. Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32368	6:30 AM	0.2			
11	CN Res. Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32376	7:30 AM	0.3			
19	CN Res. Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32384	9:00 AM	0.3			
27	CN Res. Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32392	10:00 AM	0.5			
35	CN Res. Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32400	11:30 AM	0.9			
43	CN Res. Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32408	12:30 PM	0.6			
51	CN Res. Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32416	2:00 PM	0.9			
4	CN Res. Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32369	6:30 AM	0.3			
12	CN Res. Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32377	7:30 AM	0.6			
20	CN Res. Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32385	9:00 AM	0.2	8.55	250	0.7
28	CN Res. Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32393	10:00 AM	0.3	8.21	250	0.6
36	CN Res. Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32401	11:30 AM	1.1			
44	CN Res. Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32409	12:30 PM	1.2			
52	CN Res. Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32417	2:00 PM	1.4			
5	CN Res. Valencia Outfall pH7	32370	6:30 AM	0.1			
13	CN Res. Valencia Outfall pH7	32378	7:30 AM	0.1			
21	CN Res. Valencia Outfall pH7	32386	9:00 AM	0.1			
29	CN Res. Valencia Outfall pH7	32394	10:00 AM	0.1			
37	CN Res. Valencia Outfall pH7	32402	11:30 AM	0.6			
45	CN Res. Valencia Outfall pH7	32410	12:30 PM	0.6			
53	CN Res. Valencia Outfall pH7	32418	2:00 PM	0.3			
6	CN Res. Valencia Outfall w/ 50% NaOH to pH 12	32371	6:30 AM	0.8			
14	CN Res. Valencia Outfall w/ 50% NaOH to pH 12	32379	7:30 AM	0.9			
22	CN Res. Valencia Outfall w/ 50% NaOH to pH 12	32387	9:00 AM	1.1			
30	CN Res. Valencia Outfall w/ 50% NaOH to pH 12	32395	10:00 AM	1.1			

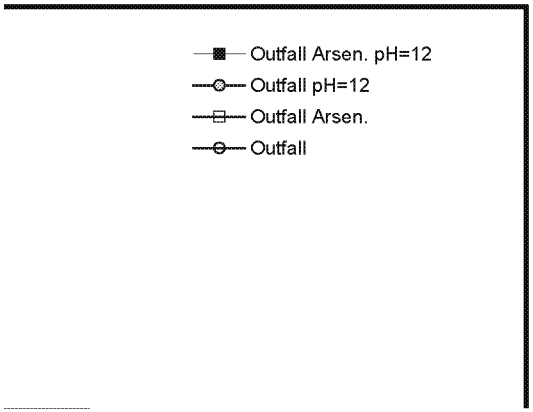




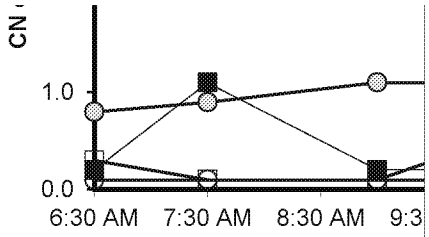
pH
Day 0

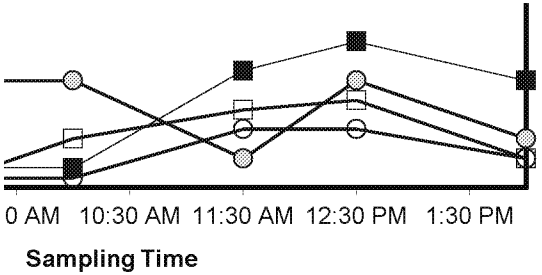


12.01
12.01



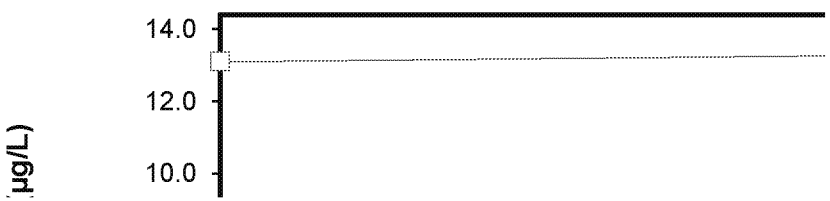
38	CN Res. Valencia Outfall w/ 50% NaOH to pH 12	32403	11:30 AM	0.3			
46	CN Res. Valencia Outfall w/ 50% NaOH to pH 12	32411	12:30 PM	1.1			
54	CN Res. Valencia Outfall w/ 50% NaOH to pH 12	32419	2:00 PM	0.5			
7	CN Res. Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32372	6:30 AM	0.3			
15	CN Res. Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32380	7:30 AM	0.1			
23	CN Res. Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32388	9:00 AM	0.1			
31	CN Res. Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32396	10:00 AM	0.5			
39	CN Res. Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32404	11:30 AM	0.8			
47	CN Res. Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32412	12:30 PM	0.9			
55	CN Res. Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	32420	2:00 PM	0.3	8.19	250	
8	CN Res. Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32373	6:30 AM	0.2	8.35	250	0.6
16	CN Res. Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32381	7:30 AM	1.1	8.33	250	0.7
24	CN Res. Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32389	9:00 AM	0.2	8.27	250	0.6
32	CN Res. Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32397	10:00 AM	0.2	8.24	250	0.6
40	CN Res. Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32405	11:30 AM	1.2	8.30	250	0.7
48	CN Res. Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32413	12:30 PM	1.5	8.23	250	0.6
56	CN Res. Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	32421	2:00 PM	1.1	8.19	250	0.6
	Any values less than 1 were entered as 0.9 for graphing and averaging purposes						





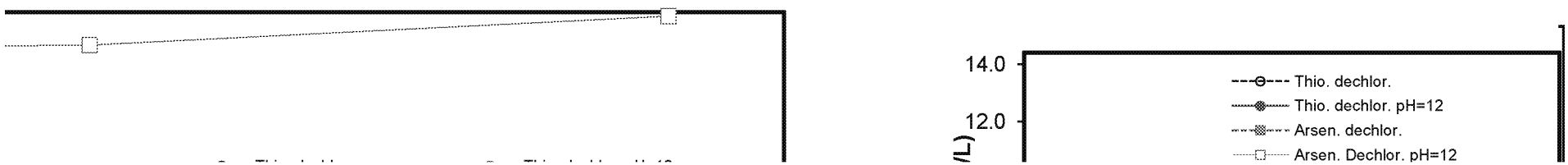
8.19
12.00
12.01
12.00
12.01
12.02
12.01
12.02

	Study: Date:
CN Res. Saugus FE Grab w/ 50% NaOH to pH 12	6:30 AM
CN Res. Saugus FE Grab w/ 50% NaOH to pH 12	7:00 AM
CN Res. Saugus FE Grab w/ 50% NaOH to pH 12	9:30 AM
CN Res. Saugus FE Grab w/ 50% NaOH to pH 12	12:00 PM
CN Res. Saugus FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	6:30 AM
CN Res. Saugus FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	7:00 AM
CN Res. Saugus FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	10:00 AM
CN Res. Saugus FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	12:00 PM
CN Res. Saugus FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	6:30 AM
CN Res. Saugus FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	7:00 AM
CN Res. Saugus FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	10:00 AM
CN Res. Saugus FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	12:00 PM
CN Res. Saugus FE w/ NaThio & No Pres.	6:30 AM
CN Res. Saugus FE w/ NaThio & No Pres.	7:00 AM
CN Res. Saugus FE w/ NaThio & No Pres.	9:30 AM
CN Res. Saugus FE w/ NaThio & No Pres.	12:00 PM
CN Res. Valencia FE Grab w/ 50% NaOH to pH 12	6:30 AM
CN Res. Valencia FE Grab w/ 50% NaOH to pH 12	9:00 AM
CN Res. Valencia FE Grab w/ 50% NaOH to pH 12	11:30 AM
	6:30 AM
CN Res. Valencia FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	9:00 AM
CN Res. Valencia FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	11:30 AM
	6:30 AM
CN Res. Valencia FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	9:00 AM
CN Res. Valencia FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	11:30 AM
CN Res. Valencia FE w/ NaThio & No Pres.	6:30 AM
CN Res. Valencia FE w/ NaThio & No Pres.	9:00 AM
CN Res. Valencia FE w/ NaThio & No Pres.	11:30 AM

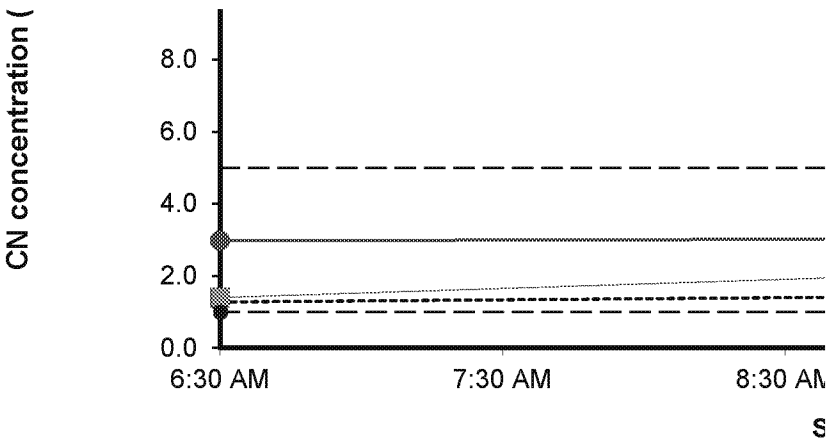


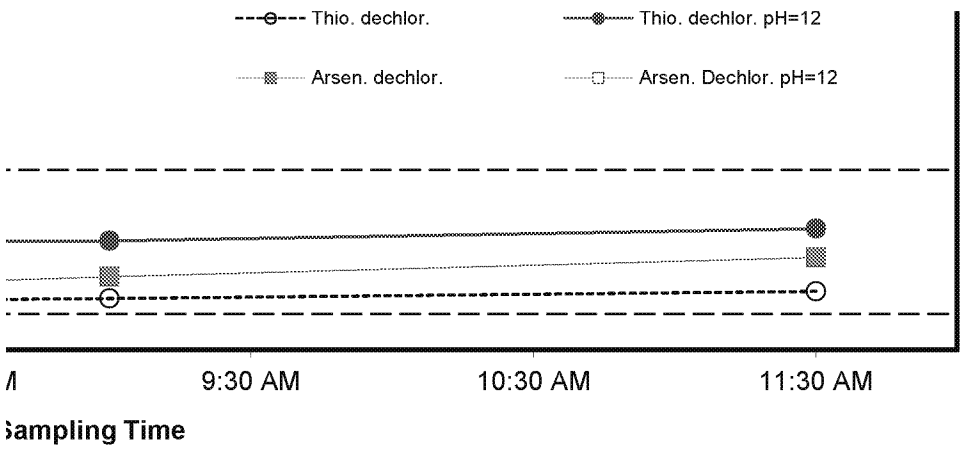
1	2	3	4	5	6	7	8	9	10	12
16-May	17-May	18-May	19-May	23-May	24-May	25-May	26-May	1-Jun	2-Jun	7-Jun
								3.1	3.1	
	17.60	2.80	3.30	2.30	3.60	2.80	6.60	2.5	4.5	3.7
	2.80	10.90	1.10	1.50	2.80	2.00	4.00	3.1	2.6	1.7
	8.30	1.40	1.10	1.20	1.90	1.40	2.60	5	4	3.4
								2	2.6	
	2.80	3.10	1.40	0.90	0.90	1.10	1.40	2.2	4	1.1
								3.1	4	2.0
	1.20	2.50	0.90	0.90	0.90	0.90	2.00	3.3	2.6	2.9
								4.7	5.7	
	12.3	8.7	6.1	4.4	5.3	13	10.30	5.6	7.1	7.8
								6.4	9.6	7.8
	12.9	11.5	6.4	7.3	7.8	13.3	5.40	7.2	7.7	7.8
								0.9	1.4	
	0.90	0.90	1.10	0.90	0.90	0.90	2.00	0.9	2	0.9
	0.90	1.40	0.90	0.90	1.40	0.90	1.10	1.1	1.1	0.9
	0.90	0.90	0.90	0.90	0.90	0.90	0.90	2.2	1.4	2.6
4.40	2.20	5.00	2.20	6.40	1.70	2.80	4.30			4.00
2.70	8.00	3.60	3.30	3.20	2.50	4.20	2.00	3.1	4	2.90
2.20	6.20	7.00	4.40	2.00	3.90	2.00	1.40	3.9	3.1	1.40
										0.90
1.90	3.70	2.50	2.50	2.30	0.90	0.90	1.70	2	3.4	2.30
6.30	3.10	3.40	3.00	1.50	2.20	1.70	1.10	2.2	3.7	1.10
										12.90
10.60	10.80	12.30	11.90	12.80	4.40	12.10	13.50	12.8	16.7	15.50
14.40	9.60	12.30	12.10	9.30	13.00	13.80	17.50	12.5	17.6	13.20
0.90	1.80	2.50	1.90	1.50	0.90	0.90	0.90			0.90
2.20	1.50	2.20	2.50	0.90	0.90	0.90	0.9	1.4	2.3	0.90
2.40	3.70	2.00	3.60	0.90	0.90	1.10	0.90	2.2	2.3	0.9

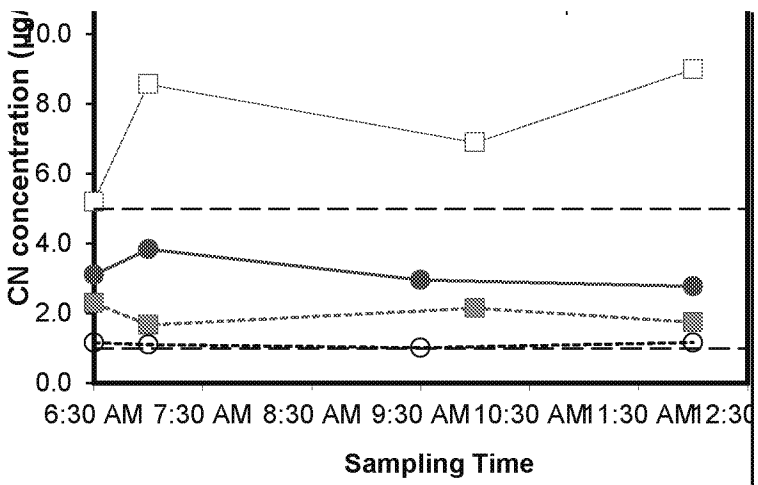
Any values less than 1 were entered as 0.9 for graphing and averaging purposes.



13 9-Jun	14 13-Jun	15 14-Jun	16 16-Jun		AVG				
					3.10				
1.1	0.9	1.1	0.9		3.84		6:30 AM	4.40	5 1
6.2	0.9	0.9	0.9		2.96		7:00 AM	1.10	
5.7	1.1	0.9	0.9		2.78		9:00 AM	2.70	
					2.30				
1.7	0.9	0.9	0.9		1.66		9:30 AM	1.90	
3.1	1.1	0.9	0.9		2.15				
3.7	0.9	0.9	0.9		1.75		11:30 AM	2.20	
					5.20				
12.7	9.2	9.4	8.0		8.56		12:00 PM	8.40	5 1
6.2	3.4	7.2	7.7		6.90		12:30 PM		5 1
13.6	8	4.3	12.6		8.99		7:00 AM	3.30	
					1.15				
1.4	0.9	0.9	0.9		1.11		9:00 AM	1.90	
0.9	0.9	0.9	0.9		1.01		11:30 AM	6.30	
1.1	0.9	0.9	0.9		1.16		12:00 PM	3.00	
2.3	1.4	1.1	0.9		2.98		7:00 AM	13.6	
2.5	1.7	0.9	0.9		3.03		9:00 AM	10.60	
8.8	1.1	2.3	0.9		3.37		11:30 AM	14.40	
1.4	2.9	0.9	0.9		1.40				
2.8	1.7	0.9	0.9		2.03		12:00 PM	13.6	
2.5	0.9	2.9	2.9		2.57		6:30 AM	0.90	
14.7	10.9	10.6	16.4		13.10				
20.4	13.7	20.9	10.9		13.29		7:00 AM	4.10	
18.1	19.2	17.2	14.1		14.26		9:00 AM	2.20	
1.7	0.9	0.9	0.9		1.28		9:30 AM	0.90	
2	1.7	0.1	1.1		1.43		11:30 AM	2.40	
1.4	0.1	1.1	0.9		1.63		12:00 PM	1.10	


CN concentration (
8.0
6.0
4.0
2.0
0.0
6:30 AM
7:30 AM
8:30 AM
s


Thio. dechlor.
Thio. dechlor. pH=12
Arsen. dechlor.
Arsen. Dechlor. pH=12
9:30 AM
10:30 AM
11:30 AM
Sampling Time

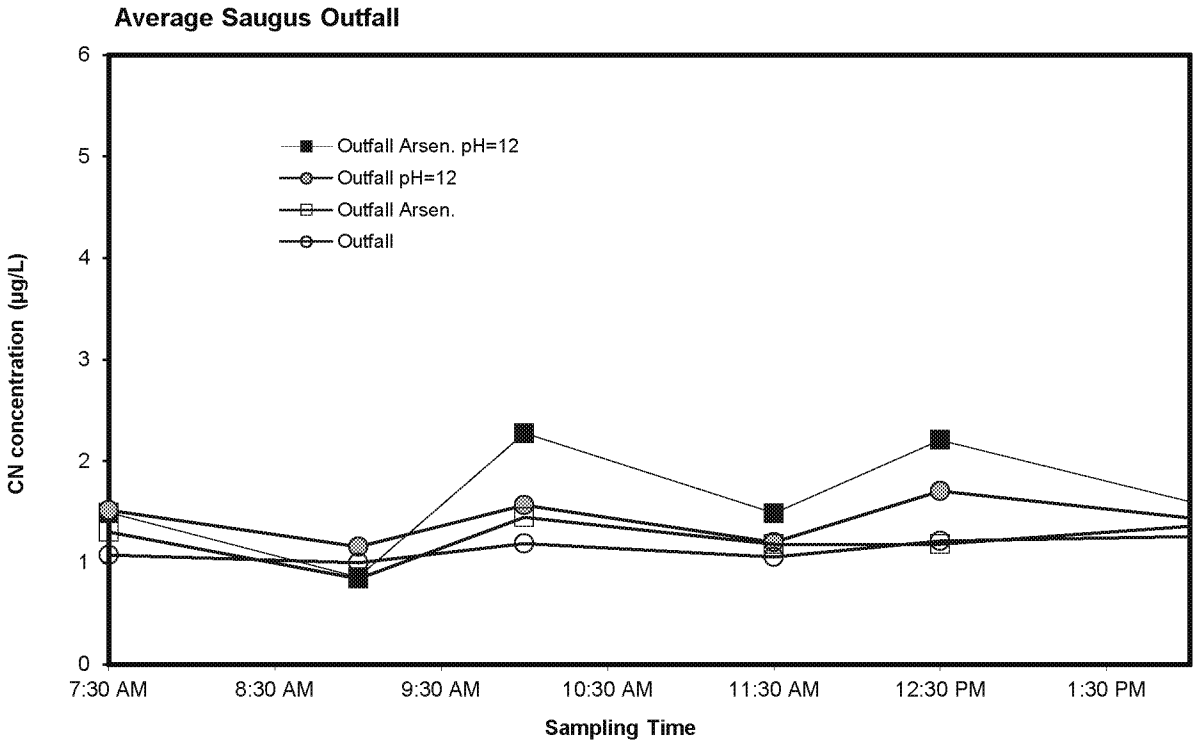

CN concentration (µg/
10.0
8.0
6.0
4.0
2.0
0.0
6:30 AM
7:30 AM
8:30 AM
9:30 AM
10:30 AM
11:30 AM
12:30
Sampling Time

) PM

	Time	6-Jun	7-Jun	9-Jun
Saugus Outfall pH7.	6:30 AM			
Saugus Outfall pH7.	7:30 AM		2.3	1.7
Saugus Outfall pH7.	9:00 AM			
Saugus Outfall pH7.	10:00 AM		0.9	2.3
Saugus Outfall pH7.	11:30 AM			
Saugus Outfall pH7.	12:30 PM	2.6	2.0	0.9
Saugus Outfall pH7.	2:00 PM			
Saugus Outfall w/ 50% NaOH to pH 12	6:30 AM			
Saugus Outfall w/ 50% NaOH to pH 12	7:30 AM		4.0	2.8
Saugus Outfall w/ 50% NaOH to pH 12	9:00 AM			
Saugus Outfall w/ 50% NaOH to pH 12	10:00 AM		2.3	4
Saugus Outfall w/ 50% NaOH to pH 12	11:30 AM			
Saugus Outfall w/ 50% NaOH to pH 12	12:30 PM	4.0	5.2	1.1
Saugus Outfall w/ 50% NaOH to pH 12	2:00 PM			
Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	6:30 AM			
Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	7:30 AM		2.9	2
Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	9:00 AM			
Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	10:00 AM		2.0	2.3
Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	11:30 AM			
Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	12:30 PM	1.7	1.4	0.9
Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	2:00 PM			
Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	6:30 AM			
Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	7:30 AM		4.6	2.5
Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	9:00 AM			
Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	10:00 AM		5.2	4
Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	11:30 AM			
Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	12:30 PM	7.5	3.7	1.4
Saugus Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	2:00 PM			
Valencia Outfall pH7	6:30 AM		0.9	1.4
Valencia Outfall pH7	7:30 AM			
Valencia Outfall pH7	9:00 AM		1.1	3.4
Valencia Outfall pH7	10:00 AM			
Valencia Outfall pH7	11:30 AM	1.1	1.4	3.4
Valencia Outfall pH7	12:30 PM			
Valencia Outfall pH7	2:00 PM			
Valencia Outfall w/ 50% NaOH to pH 12	6:30 AM		4.3	2.5
Valencia Outfall w/ 50% NaOH to pH 12	7:30 AM			
Valencia Outfall w/ 50% NaOH to pH 12	9:00 AM		4.3	4.2
Valencia Outfall w/ 50% NaOH to pH 12	10:00 AM			
Valencia Outfall w/ 50% NaOH to pH 12	11:30 AM	4.0	2.6	5.4
Valencia Outfall w/ 50% NaOH to pH 12	12:30 PM			
Valencia Outfall w/ 50% NaOH to pH 12	2:00 PM			
Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	6:30 AM		1.7	2.3
Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	7:30 AM			
Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	9:00 AM		1.1	3.1
Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	10:00 AM			
Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	11:30 AM	1.4	0.9	3.1
Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	12:30 PM			
Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	2:00 PM			

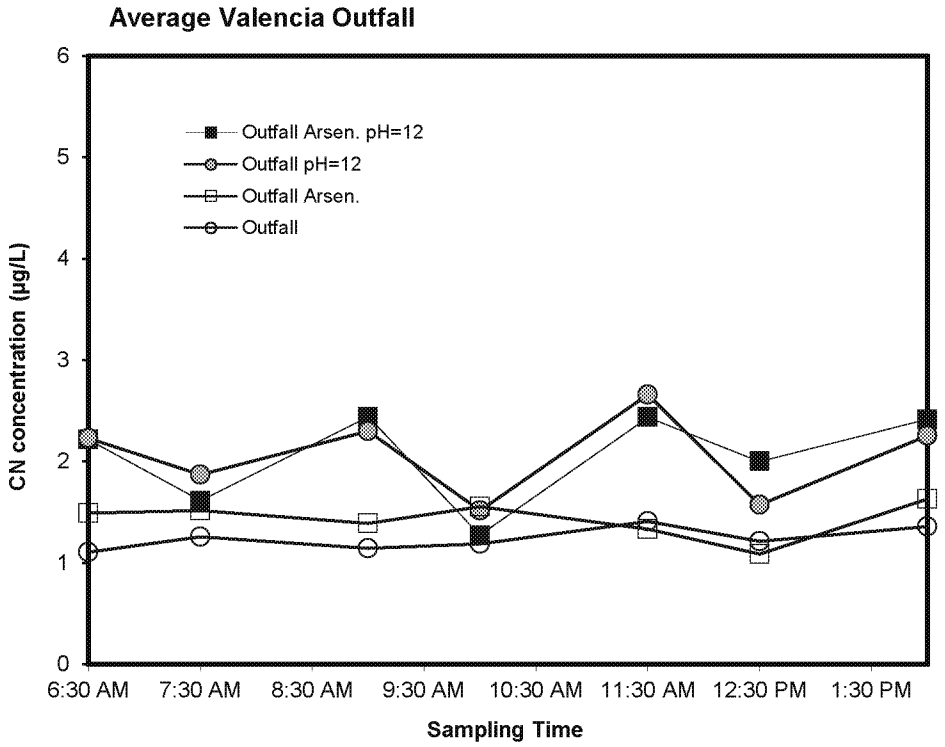
			5 cm cell	5 cm cell	5 cm cell	5 cm cell	5 cm cell	5 cm cell	5 cm cell	5 cm cell	
13-Jun	14-Jun	16-Jun	20-Jun	21-Jun	23-Jun	27-Jun	28-Jun	30-Jun	5-Jul		Average
			0.9	1.6	0.9	0.1	0.1	0.4	0.1		**0.6**
0.9	0.9	0.9	0.9	1.3	0.9	0.9	0.3	1.0	0.9		**1.1**
			2.1	2.4	1.2	0.1	0.4	0.6	0.2		**1.0**
0.9	0.9	0.9	1.8	2.6	1.4	1.2	0.3	0.8	0.3		**1.2**
			2.7	1.8	0.9	0.7	0.9	0.3	0.1		**1.1**
0.6	0.9	0.9	3.2	0.9	0.9	0.1	1.2	0.8	0.8		**1.2**
			3.0	2.2	0.9	0.4	1.3	0.7	0.3		**1.3**
			0.9	1.6	0.9	0.3	0.3	0.8	0.2		**0.7**
0.9	0.9	0.9	0.9	3.4	1.0	1.5	0.3	1.1	0.5		**1.5**
			2.1	3.0	0.9	0.7	0.6	0.6	0.2		**1.2**
1.1	0.9	0.9	2.1	3.0	2.0	0.6	0.6	1.0	0.3		**1.6**
			1.8	1.9	0.9	0.7	1.9	0.6	0.6		**1.2**
1.4	1.1	0.9	4.5	1.4	0.9	0.6	0.6	0.4	0.1		**1.7**
			2.4	3.0	1.2	0.9	1.0	0.7	0.9		**1.4**
			0.9	1.4	1.0	0.1	0.1	0.3	0.1		**0.6**
0.9	0.9	0.9	0.9	2.7	1.0	1.0	0.6	0.7	1.1		**1.3**
			1.8	1.0	1.2	0.6	0.4	0.7	0.2		**0.8**
0.9	0.9	0.9	2.6	4.3	1.2	0.7	0.7	0.8	0.1		**1.5**
			2.6	2.6	0.9	0.1	1.2	0.6	0.3		**1.2**
0.9	0.6	0.9	3.0	2.6	1.3	0.1	1.2	0.6	0.2		**1.2**
			3.8	2.4	1.2	0.9	0.4	0.7	0.1		**1.4**
			0.9	1.8	1.2	0.1	0.1	1.0	1.1		**0.9**
0.9	1.7	0.9	1.1	3.2	0.9	0.1	0.6	1.3	0.1		**1.5**
			2.6	1.0	0.9	0.1	0.1	1.1	0.2		**0.9**
2.9	1.7	1.4	2.6	5.0	0.9	0.7	1.2	1.1	0.6		**2.3**
			3.0	3.2	1.0	0.9	0.6	1.1	0.6		**1.5**
3.7	1.4	0.9	4.0	2.2	0.9	0.6	0.6	1.3	0.5		**2.2**
			4.3	3.5	1.6	0.1	0.1	1.3	0.3		**1.6**
1.7	0.9	0.9	0.9	2.6	0.9	1.6	1.3	0.1	0.1		**1.1**
			1.3	4.0	0.9	0.1	0.4	1.0	1.1		**1.3**
0.6	1.4	0.9	2.1	1.1	0.9	0.7	0.3	0.7	0.5		**1.1**
			2.4	3.0	0.9	0.4	1.3	0.1	0.2		**1.2**
0.9	1.7	0.9	3.2	2.9	0.9	0.9	0.1	0.1	0.8		**1.4**
			3.5	1.6	1.3	0.4	0.4	0.4	0.9		**1.2**
			4.8	1.6	0.9	0.6	0.4	0.3	0.9		**1.4**
3.7	0.9	0.9	1.0	3.7	1.0	3.8	3.8	0.1	1.1		**2.2**
			3.8	4.0	0.9	0.9	1.9	1.0	0.6		**1.9**
1.4	2.3	1.4	4.2	3.8	0.9	2.8	1.0	1.0	0.3		**2.3**
			2.4	3.2	2.2	0.6	1.3	0.1	0.8		**1.5**
2.3	2.3	1.7	5.6	3.4	0.9	2.2	2.2	0.8	1.2		**2.7**
			4.2	1.4	2.4	1.2	1.0	0.7	0.1		**1.6**
			5.6	4.0	1.0	2.1	1.2	1.6	0.3		**2.3**
2.6	0.9	0.9	0.9	2.2	1.0	2.3	1.9	0.6	0.6		**1.5**
			1.6	3.7	0.9	1.2	1.2	0.8	1.2		**1.5**
1.4	1.7	0.9	3.0	1.4	0.9	1.3	0.3	1.0	0.6		**1.4**
			2.7	4.0	0.9	0.7	0.9	0.6	1.1		**1.6**
0.9	2.3	0.9	2.9	1.8	0.9	0.1	0.9	0.3	0.9		**1.3**
			2.7	1.6	0.9	0.4	0.1	0.4	1.5		**1.1**
			4.6	3.4	1.4	0.1	0.7	1.1	0.1		**1.6**

Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	6:30 AM		4.6	1.7
Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	7:30 AM			
Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	9:00 AM		4.0	3.4
Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	10:00 AM			
Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	11:30 AM	4.9	3.7	4.2
Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	12:30 PM			
Valencia Outfall w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	2:00 PM			
Any values less than 1 were entered as 0.9 for graphing and averaging purposes				



Time	Fraction
6	0.25
6:30	0.270833333
7	0.291666667
7:30	0.3125
8	0.333333333
8:30	0.354166667
9	0.375
9:30	0.395833333
10	0.416666667
10:30	0.4375
11	0.458333333
11:30	0.479166667

4.6	2.6	2.3	1.6	4.0	0.9	1.8	1.5	0.7	0.3	**2.2**
			2.4	3.2	0.9	1.3	1.0	1.6	0.9	**1.6**
2.6	2.9	1.1	4.0	4.2	1.9	1.5	0.9	1.4	1.4	**2.4**
			1.6	3.8	0.9	0.6	0.7	1.0	0.3	**1.3**
4	2.9	0.9	5.8	1.6	0.9	0.7	0.3	1.3	0.5	**2.4**
			4.2	3.5	2.9	0.1	1.6	1.4	0.3	**2.0**
			4.5	3.7	2.2	1.0	1.3	3.1	1.1	**2.4**



12	0.5
12:30	0.520833333
1	0.541666667
1:30	0.5625
2	0.583333333
2:30	0.604166667
3	0.625
3:30	0.645833333
4	0.666666667
4:30	0.6875
5	0.708333333
5:30	0.729166667
6	0.75
6:30	0.770833333