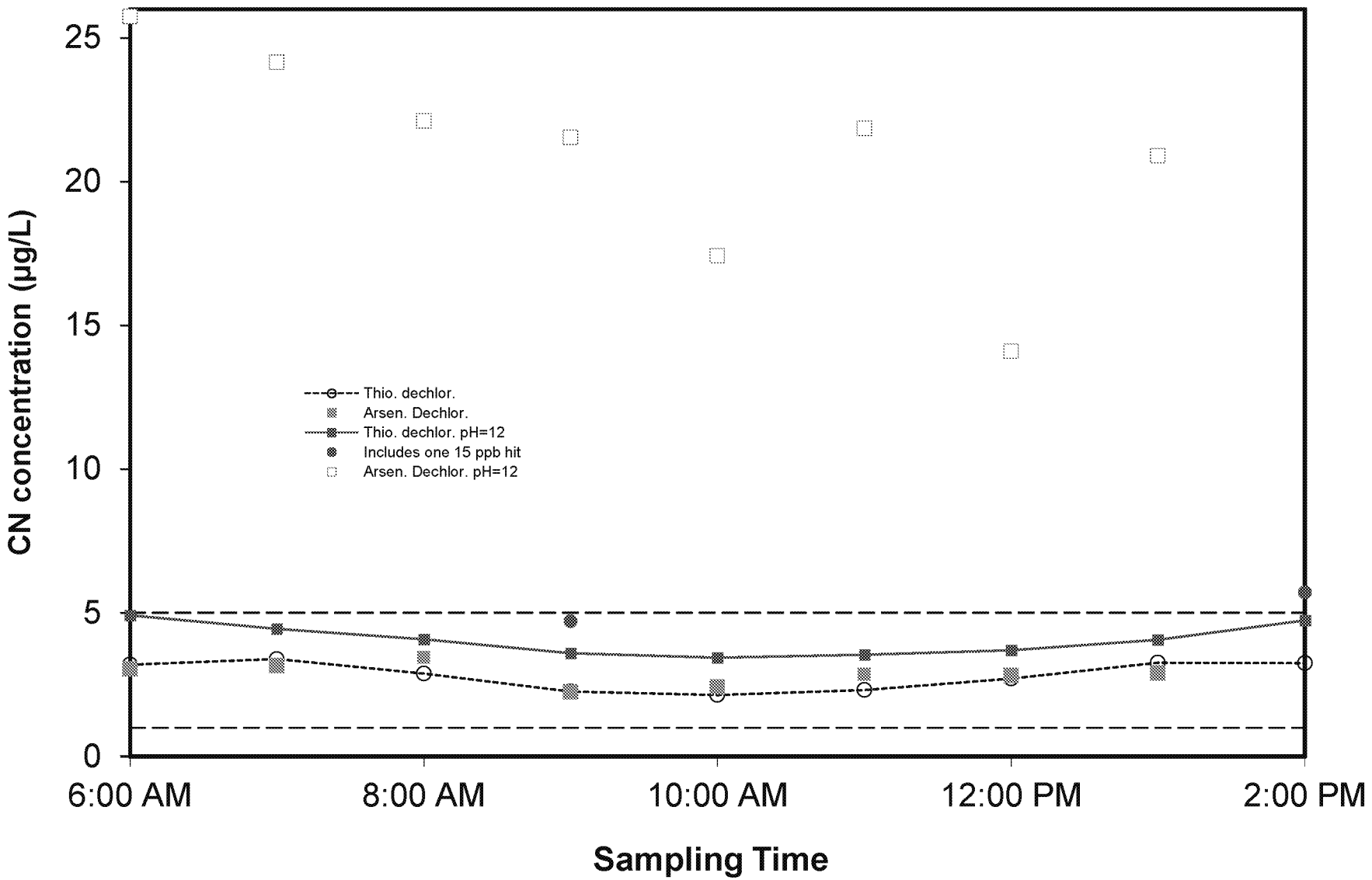

25
20
15
10
5
0
CN concentration (µg/L)
Thio. dechlor.
Arsen. Dechlor.
Thio. dechlor. pH=12
Includes one 15 ppb hit
Arsen. Dechlor. pH=12
6:00 AM
8:00 AM
10:00 AM
12:00 PM
2:00 PM
Sampling Time

Analysis Date:		2/7/2005	2/7/2005
Description	**Login #**	**FIA Data Day 0**	**FIA Rerun Day 0**
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22106	1.48	
CN Res. SJC East FE Grab w/ 50% NaOH to pH > 12	SJ22107	6.536	5.065
CN Res. SJC East FE Grab 15ppb spk No Pres.	SJ22108		
CN Res. SJC East FE Grab 15ppb spk pH12 w/50% NaOH	SJ22109		
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22110	1.617	
CN Res. SJC East FE Grab w/ 50% NaOH to pH > 12	SJ22111	8.742	8.048
CN Res. SJC East FE Grab 15ppb spk No Pres.	SJ22112		
CN Res. SJC East FE Grab 15ppb spk pH12 w/50% NaOH	SJ22113		
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22114	1.208	
CN Res. SJC East FE Grab w/ 50% NaOH to pH > 12	SJ22115	7.606	6.903
CN Res. SJC East FE Grab 15ppb spk No Pres.	SJ22116		
CN Res. SJC East FE Grab 15ppb spk pH12 w/50% NaOH	SJ22117		
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22118	0.8837	
CN Res. SJC East FE Grab w/ 50% NaOH to pH > 12	SJ22119	6.797	6.709
CN Res. SJC East FE Grab 15ppb spk No Pres.	SJ22120		
CN Res. SJC East FE Grab 15ppb spk pH12 w/50% NaOH	SJ22121		
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22122	0.9898	
CN Res. SJC East FE Grab w/ 50% NaOH to pH > 12	SJ22123	4.278	4.914
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22124	0.7202	
CN Res. SJC East FE Grab w/ 50% NaOH to pH > 12	SJ22125	3.85	4.896
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22126	0.223	
CN Res. SJC East FE Grab w/ 50% NaOH to pH > 12	SJ22127	4.318	
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22128	1.1	
CN Res. SJC East FE Grab w/ 50% NaOH to pH > 12	SJ22129	5.521	
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22130	0.1459	
CN Res. SJC East FE Grab w/ 50% NaOH to pH > 12	SJ22131	7.198	
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22132	0.07807	
CN Res. SJC East FE Grab w/ 50% NaOH to pH > 12	SJ22133	13.29	
CN Res. DI Water 15ppb spk pH12 w/ 50% NaOH	SJ22134		

Spiked Values

Note: For SJ22106 to SJ22125 LCS fails low ~ 17% , SJ22130 to SJ22133 CVS at the end fails ~ 10.12%

CYANIDE PROJECT
VALENCIA FINAL EFFLUENT RESULTS FOR DIURNAL STUDY-1
REFERENCE # SJ22106
DATE FOR DAY 0: 02/07/05

2/7/2005	2/8/2005	2/14/2005	2/9/2005
Distillation Result		**FIA Rerun**	**Distill**
Day 0	**Day 1**	**Day**	**Day 2**
2.3	2		
3.4	4.0		
2.6	1.4		
4	3.4		
2.3	2.3		
7.10	6.50		
2	1.4		
6.6	6		
3.1	1.7		
6.0	5.7		
2.6	0.9		
6.9	4.8		
2.6	1.4		
5.10	5.10		
2.30	1.10		
5.7	5.1		
			2.0
		13.45	3.7
14.6	14.5		

Analysis Date:
Description
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE Grab 15ppb spk No Pres.
CN Res. SJC East FE 15ppb spk pH12 w/50% NaOH
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE Grab 15ppb spk No Pres.
CN Res. SJC East FE 15ppb spk pH12 w/50% NaOH
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. DI Water 15ppb spk pH12 w/ 50% NaOH

NOTE: This Study was Cancelled due to maintainance required on FIA and was run only by distillation for samples collected till 11:00 am.
**** Sample not collected**

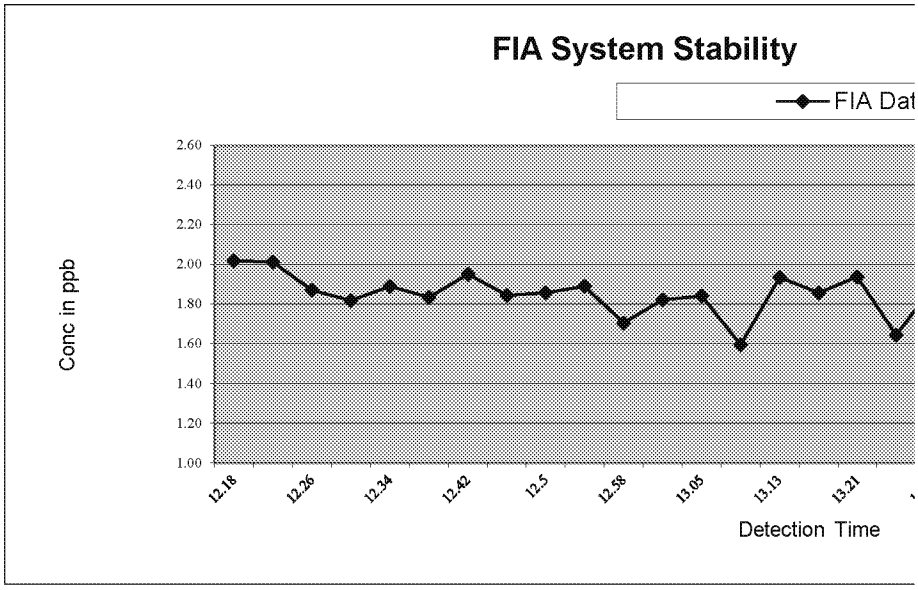
CYANIDE PROJECT
VALENCIA FINAL EFFLUENT RESULTS FOR DIURNAL STUDY-2
REFERENCE # SJ22225
DATE FOR DAY 0: 02/09/05

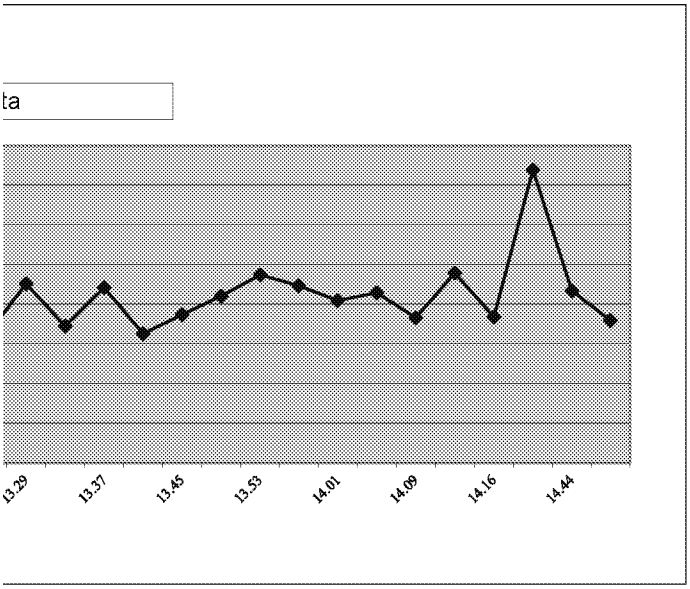
Login #	Colln Time	2/9/2005 FIA Data	2/9/2005 Distill Day 0
SJ22225	6.00		2.5
SJ22226	6.00		4.2
SJ22227	7.00		2.3
SJ22228	7.00		4.2
SJ22229	7.00		12.6
SJ22230	7.00		14.40
SJ22231	8.00		2.3
SJ22232	8.00		5.1
SJ22233	8.00		13.9
SJ22234	8.00		16.7
SJ22235	9.00		1.4
SJ22236	9.00		2.8
SJ22237	10.00		2
SJ22238	10.00		3.40
SJ22239	11.00		3.10
SJ22240	11.00		5.4
SJ22241	12.00		
SJ22242	12.00		
SJ22243	13.00		
SJ22244	13.00		
SJ22245	14.00		
SJ22246	14.00		
SJ22247 **	15.00		
SJ22248 **	15.00		
SJ22249			13.9

SJC E No Pres	SJC E pH12	SJC E No Pres spk	SJC E pH12 spk
2.5	0.0	0.0	0.0
0.0	4.2	0.0	0.0
2.3	0.0	0.0	0.0
0.0	4.2	0.0	0.0
0.0	0.0	12.6	0.0
0.0	0.0	0.0	14.4
2.3	0.0	0.0	0.0
0.0	5.1	0.0	0.0
0.0	0.0	13.9	0.0
0.0	0.0	0.0	16.7
1.4	0.0	0.0	0.0
0.0	2.8	0.0	0.0
2.0	0.0	0.0	0.0
0.0	3.4	0.0	0.0
3.1	0.0	0.0	0.0
0.0	5.4	0.0	0.0

CYANIDE PROJECT
VALENCIA FINAL EFFLUENT RESULTS FOR FIA SYSTEM STABILITY
DATE FOR DAY 0: 02/14/05

Analysis Date:		2/14/2005
Description	Detection Time	FIA Data
2 ppb Std	12.18	2.02
2 ppb Std	12.22	2.01
2 ppb Std	12.26	1.87
2 ppb Std	12.3	1.82
2 ppb Std	12.34	1.89
2 ppb Std	12.38	1.83
2 ppb Std	12.42	1.95
2 ppb Std	12.46	1.85
2 ppb Std	12.5	1.86
2 ppb Std	12.54	1.89
2 ppb Std	12.58	1.71
2 ppb Std	13.02	1.82
2 ppb Std	13.05	1.84
2 ppb Std	13.09	1.60
2 ppb Std	13.13	1.93
2 ppb Std	13.17	1.86
2 ppb Std	13.21	1.94
2 ppb Std	13.25	1.65
2 ppb Std	13.29	1.90
2 ppb Std	13.33	1.69
2 ppb Std	13.37	1.88
2 ppb Std	13.41	1.65
2 ppb Std	13.45	1.75
2 ppb Std	13.49	1.84
2 ppb Std	13.53	1.95
2 ppb Std	13.57	1.89
2 ppb Std	14.01	1.82
2 ppb Std	14.05	1.86
2 ppb Std	14.09	1.73
2 ppb Std	14.13	1.96
2 ppb Std	14.16	1.74
2 ppb Std	14.2	2.48
2 ppb Std	14.24	n/a
2 ppb Std	14.28	n/a
2 ppb Std	14.32	n/a
2 ppb Std	14.36	n/a
2 ppb Std	14.4	n/a
2 ppb Std	14.44	1.87
2 ppb Std	14.48	1.72
SJ22133	14.52	13.45
cvs	14.56	48.32



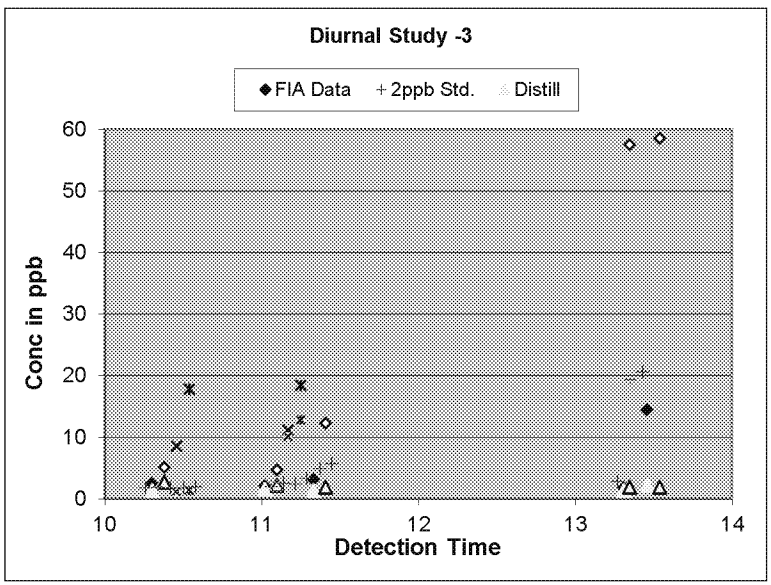

ta
13.29
13.37
13.45
13.53
14.01
14.09
14.16
14.44

CYANIDE PROJECT
VALENCIA FINAL EFFLUENT RESULTS FOR DIURNAL STUDY-3
REFERENCE # SJ22731
DATE FOR DAY 0: 02/16/05

Analysis Date:				02/16/05
Description	Login #	Colln Time	FIA Detn Time (spl)	FIA Data
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22731	9.00	10.30	2.52
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ22732	9.00	10.38	5.08
CN Res. SJC East FE Grab 15ppb spk No Pres.	SJ22733	9.00	10.46	8.542
CN Res. SJC East FE 15ppb spk pH12 w/50% NaOH	SJ22734	9.00	10.54	17.71
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22735	10.00	11.02	2.092
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ22736	10.00	11.10	4.65
CN Res. SJC East FE Grab 15ppb spk No Pres.	SJ22737	10.00	11.17	11.08
CN Res. SJC East FE 15ppb spk pH12 w/50% NaOH	SJ22738	10.00	11.25	18.36
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22739	11.00	11.33	3.098
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ22740	11.00	11.41	12.26
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22741	12.00	13.46	14.46
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ22742	12.00	13.54	58.47
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22743	13.00	13.31	1.753
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ22744	13.00	13.35	57.46
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22745 *	14.00		
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ22746 *	14.00		
CN Res. SJC East FE w/ NaThio & No Pres.	SJ22747 *	15.00		
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ22748 *	15.00		
CN Res. DI Water 15ppb spk pH12 w/ 50% NaOH	SJ22749			

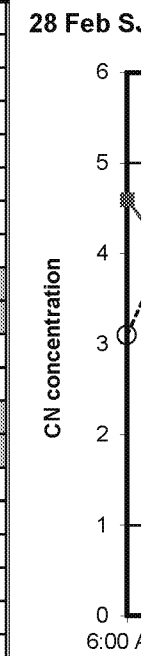
Data unacceptable
*** Sample not collected**

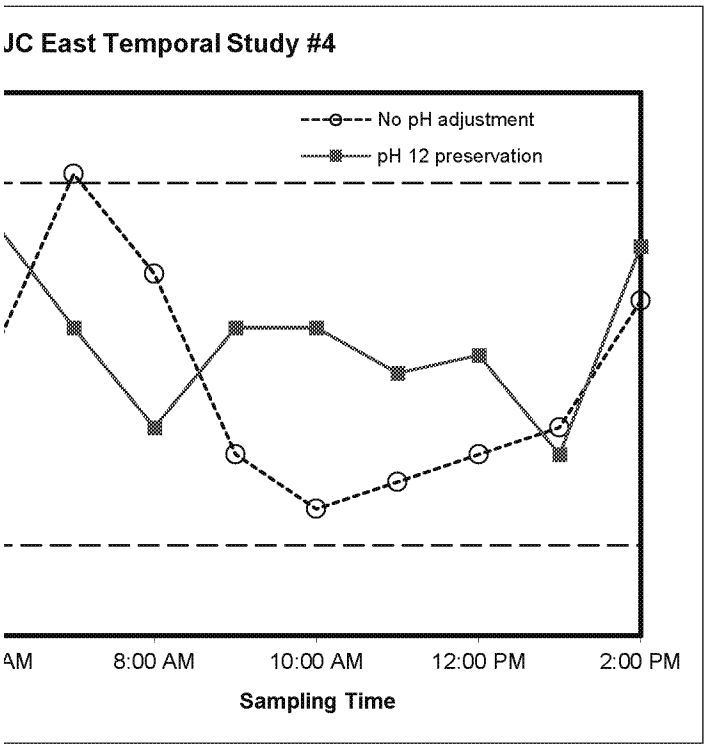
	FIA	02/16/05
FIA Detn Time (std)	2ppb Std.	Distill Day 0
10.26	1.82	1.4
10.34	1.882	2.7
10.42	1.746	1.1
10.5	1.77	1.30
10.58	1.989	1.6
11.06	2.04	2.2
11.14	2.505	10.1
11.21	2.473	12.8
11.29	3.316	1.40
11.37	4.956	1.9
11.45	5.794	2.2
13.27	2.793	1.9
13.35	19.33	1.4
13.43	20.66	1.9
13.5	13.85	
		13.6



CYANIDE PROJECT
SJC EAST FINAL EFFLUENT RESULTS FOR DIURNAL STUDY-4
REFERENCE # SJ23169
DATE FOR DAY 0: 02/28/05

Analysis Date:			2/28/2005
Description	Login #	Colln Time	Distill Day 0
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23169	6:00 AM	3.1
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23170	6:00 AM	4.6
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23171	7:00 AM	5.1
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23172	7:00 AM	3.4
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23173	8:00 AM	4
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23174	8:00 AM	2.3
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23175	9:00 AM	2
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23176	9:00 AM	3.4
CN Res. SJC East FE Grab 15ppb spk No Pres.	SJ23177	9:00 AM	14.3
CN Res. SJC East FE 15ppb spk pH12 w/50% NaOH	SJ23178	9:00 AM	16.30
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23179	10:00 AM	1.4
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23180	10:00 AM	3.4
CN Res. SJC East FE Grab 15ppb spk No Pres.	SJ23181	10:00 AM	13.4
CN Res. SJC East FE 15ppb spk pH12 w/50% NaOH	SJ23182	10:00 AM	16.6
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23183	11:00 AM	1.70
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23184	11:00 AM	2.9
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23185	12:00 PM	2
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23186	12:00 PM	3.1
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23187	1:00 PM	2.3
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23188	1:00 PM	2
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23189	2:00 PM	3.7
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23190	2:00 PM	4.3
CN Res. DI Water 15ppb spk pH12 w/ 50% NaOH	SJ23191		13.7

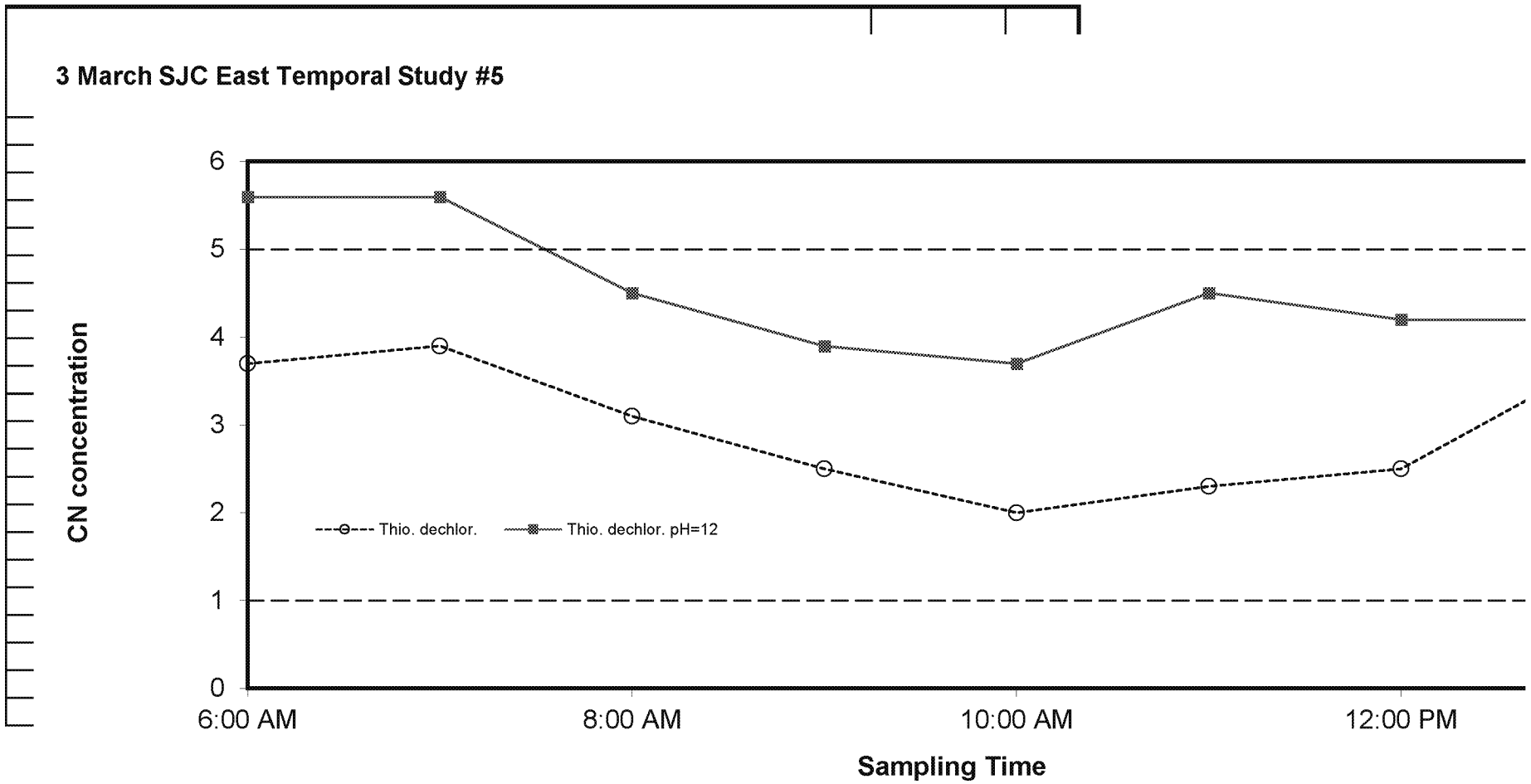


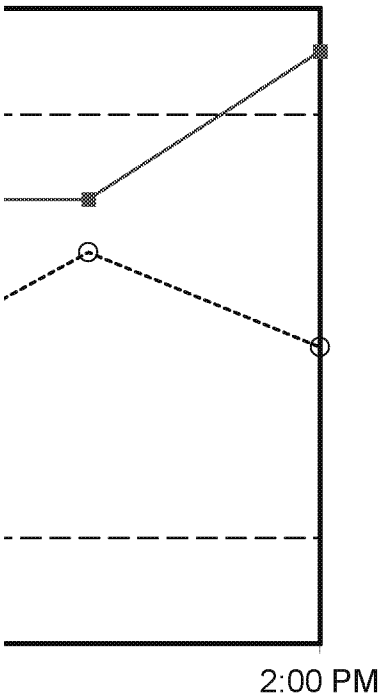

JC East Temporal Study #4
No pH adjustment
pH 12 preservation
AM
8:00 AM
10:00 AM
12:00 PM
2:00 PM
Sampling Time

Description	Login #	Time	CN	Spike Recovery	Initial pH
CN Res. DI Water 15ppb spk pH12 w/ 50% NaOH	SJ23641		14.9	99%	7.5
CN Res. SJC East FE 15ppb spk pH12 w/50% NaOH	SJ23628	9:00 AM	16.9	87%	7.5
CN Res. SJC East FE 15ppb spk pH12 w/50% NaOH	SJ23632	10:00 AM	17.2	90%	7.5
CN Res. SJC East FE Grab 15ppb spk No Pres.	SJ23627	9:00 AM	14.3	79%	7.5
CN Res. SJC East FE Grab 15ppb spk No Pres.	SJ23631	10:00 AM	14.9	86%	7.54
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23620	6:00 AM	5.6		7.54
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23622	7:00 AM	5.6		7.55
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23624	8:00 AM	4.5		7.55
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23626	9:00 AM	3.9		
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23630	10:00 AM	3.7		
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23634	11:00 AM	4.5		7.58
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23636	12:00 PM	4.2		7.58
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23638	1:00 PM	4.2		
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ23640	2:00 PM	5.6		
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23619	6:00 AM	3.7		7.5
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23621	7:00 AM	3.9		7.5
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23623	8:00 AM	3.1		7.55
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23625	9:00 AM	2.5		7.55
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23629	10:00 AM	2		7.57
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23633	11:00 AM	2.3		7.57
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23635	12:00 PM	2.5		7.52
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23637	1:00 PM	3.7		7.52
CN Res. SJC East FE w/ NaThio & No Pres.	SJ23639	2:00 PM	2.8		

CYANIDE PROJECT

SAN JOSE CREEK EAST FINAL EFFLUENT pH RECORD FOR DIURNAL STUDY
REFERENCE # SJ23619
DATE FOR DAY 0: 03/03/05




2:00 PM

Analysis Date:
Description
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE Grab w/NaAsO2 No Pres.
CN Res. SJC East FE Grab w/NaAsO2 pH12
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE Grab 15ppb spk No Pres.
CN Res. SJC East FE 15ppb spk pH12 w/50% NaOH
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE Grab 15ppb spk No Pres.
CN Res. SJC East FE 15ppb spk pH12 w/50% NaOH
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. DI Water 15ppb spk pH12 w/ 50% NaOH

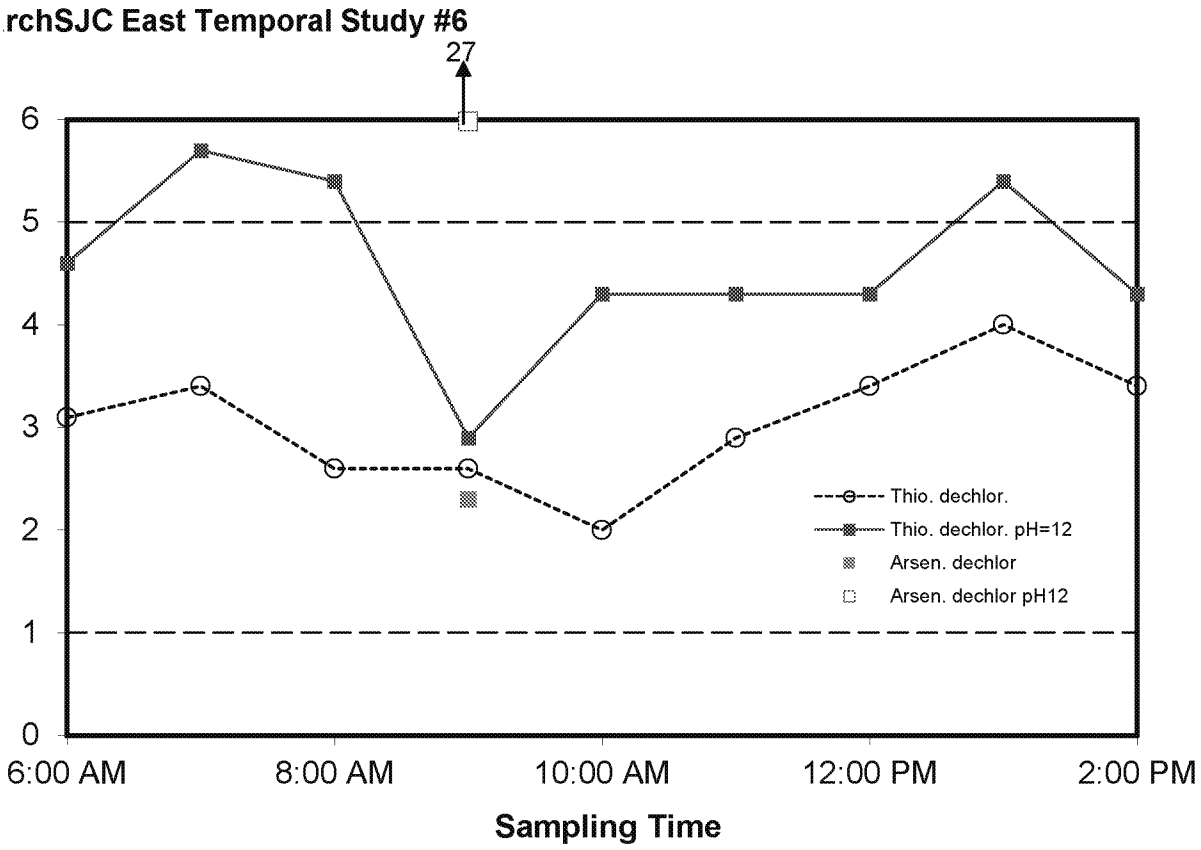
10ppb KCN std

CYANIDE PROJECT
SJC EAST FINAL EFFLUENT RESULTS FOR DIURNAL STUDY-6
REFERENCE # SJ23797
DATE FOR DAY 0: 03/07/05

		3/7/2005		3/7/2005
Login #	**Colln Time**	**FIA Day 0**	**2 ppb std**	**Distill Day 0**
SJ23797	6:00 AM			3.1
SJ23798	6:00 AM			4.6
SJ23799	7:00 AM			3.4
SJ23800	7:00 AM			5.7
SJ23801	8:00 AM			2.6
SJ23802	8:00 AM			5.4
SJ23803	9:00 AM			2.6
SJ23804	9:00 AM			2.9
SJ23805	9:00 AM			2.3
SJ23806	9:00 AM		1.84	27.20
SJ23807	10:00 AM	1.56	1.89	2
SJ23808	10:00 AM	4.18	2.03	4.3
SJ23809	10:00 AM	9.97	1.47	14.6
SJ23810	10:00 AM	17.07	1.45	16.9
SJ23811	11:00 AM	1.07	0.57	2.90
SJ23812	11:00 AM	4.05	0.55	4.3
SJ23813	11:00 AM	9.53	0.69	15.7
SJ23814	11:00 AM	16.38	17.76	16.6
SJ23815	12:00 PM	18.95	21.85	3.4
SJ23816	12:00 PM	37.74	23.84	4.3
			31.11	
SJ23817	1:00 PM	5.62	17.72	4
SJ23818	1:00 PM	36.79	25.55	5.4
			30.18	
SJ23819	2:00 PM	14.99	-184.10	3.4
SJ23820	2:00 PM	42.64	-55.62	4.3
SJ23821		35.87	55.65	14.6
			37.73	
			61.73	

7 Ma

CN concentration

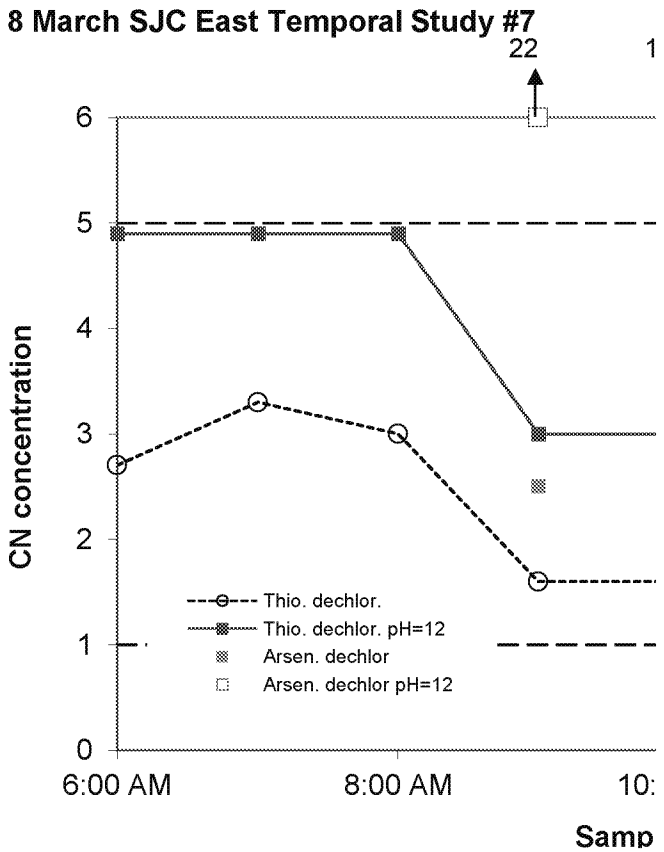

rchSJC East Temporal Study #6
27
6
5
4
3
2
1
0
6:00 AM
8:00 AM
10:00 AM
12:00 PM
2:00 PM
Sampling Time
Thio. dechlor.
Thio. dechlor. pH=12
Arsen. dechlor
Arsen. dechlor pH12

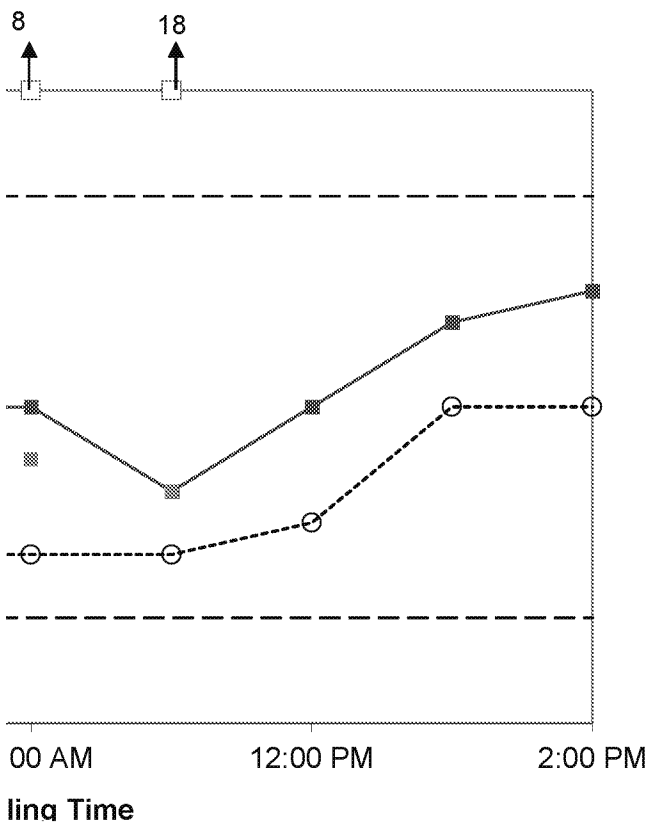
Description	Login #	Time collected	CN by Distill
DI Water 15ppb spk pH12 w/ 50% NaOH	SJ23904		14
SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ23886	9:00 AM	2.5
SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ23892	10:00 AM	2.5
SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ23896	11:00 AM	2.2
SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ23887	9:00 AM	22.5
SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ23893	10:00 AM	18.4
SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ23897	11:00 AM	17.6
SJC East FE 15ppb spk pH12 w/50% NaOH	SJ23885	9:00 AM	15.7
SJC East FE 15ppb spk pH12 w/50% NaOH	SJ23891	10:00 AM	15.9
SJC East FE Grab 15ppb spk No Pres.	SJ23884	9:00 AM	15.7
SJC East FE Grab 15ppb spk No Pres.	SJ23890	10:00 AM	14.3
SJC East FE Grab w/ 50% NaOH to pH 12	SJ23877	6:00 AM	4.9
SJC East FE Grab w/ 50% NaOH to pH 12	SJ23879	7:00 AM	4.9
SJC East FE Grab w/ 50% NaOH to pH 12	SJ23881	8:00 AM	4.9
SJC East FE Grab w/ 50% NaOH to pH 12	SJ23883	9:00 AM	3.0
SJC East FE Grab w/ 50% NaOH to pH 12	SJ23889	10:00 AM	3
SJC East FE Grab w/ 50% NaOH to pH 12	SJ23895	11:00 AM	2.2
SJC East FE Grab w/ 50% NaOH to pH 12	SJ23899	12:00 PM	3
SJC East FE Grab w/ 50% NaOH to pH 12	SJ23901	1:00 PM	3.8
SJC East FE Grab w/ 50% NaOH to pH 12	SJ23903	2:00 PM	4.1
SJC East FE w/ NaThio & No Pres.	SJ23876	6:00 AM	2.7
SJC East FE w/ NaThio & No Pres.	SJ23878	7:00 AM	3.3
SJC East FE w/ NaThio & No Pres.	SJ23880	8:00 AM	3
SJC East FE w/ NaThio & No Pres.	SJ23882	9:00 AM	1.6
SJC East FE w/ NaThio & No Pres.	SJ23888	10:00 AM	1.6
SJC East FE w/ NaThio & No Pres.	SJ23894	11:00 AM	1.6
SJC East FE w/ NaThio & No Pres.	SJ23898	12:00 PM	1.9
SJC East FE w/ NaThio & No Pres.	SJ23900	1:00 PM	3

CYANIDE PROJECT

SAN JOSE CREEK EAST FINAL EFFLUENT Results FOR DIURNAL STUDY-7
REFERENCE # SJ23876
DATE FOR DAY 0: 03/08/05

6
6
6




8
18
00 AM
12:00 PM
2:00 PM
ling Time

SJC East FE w/ NaThio & No Pres.	SJ23902	2:00 PM	3

Description	Login #	Time collected	CN by Distill
DI Water 15ppb spk pH12 w/ 50% NaOH	SJ24034		5.5
SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ24008	7:00 AM	2.9
SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ24016	9:00 AM	2.30
SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ24024	11:00 AM	3.50
SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ24030	1:00 PM	2.9
SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ24009	7:00 AM	26.1
SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ24017	9:00 AM	29.90
SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ24025	11:00 AM	26.10
SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ24031	1:00 PM	20.9
SJC East FE 15ppb spk pH12 w/50% NaOH	SJ24015	9:00 AM	18.60
SJC East FE 15ppb spk pH12 w/50% NaOH	SJ24021	10:00 AM	17.10
SJC East FE Grab 15ppb spk No Pres.	SJ24014	9:00 AM	3.20
SJC East FE Grab 15ppb spk No Pres.	SJ24020	10:00 AM	15.70
SJC East FE Grab w/ 50% NaOH to pH 12	SJ24005	6:00 AM	4.6
SJC East FE Grab w/ 50% NaOH to pH 12	SJ24007	7:00 AM	4.60
SJC East FE Grab w/ 50% NaOH to pH 12	SJ24011	8:00 AM	3.8
SJC East FE Grab w/ 50% NaOH to pH 12	SJ24013	9:00 AM	15.7
SJC East FE Grab w/ 50% NaOH to pH 12	SJ24019	10:00 AM	3.80
SJC East FE Grab w/ 50% NaOH to pH 12	SJ24023	11:00 AM	2.60
SJC East FE Grab w/ 50% NaOH to pH 12	SJ24027	12:00 PM	4.10
SJC East FE Grab w/ 50% NaOH to pH 12	SJ24029	1:00 PM	3.8
SJC East FE Grab w/ 50% NaOH to pH 12	SJ24033	2:00 PM	15.4
SJC East FE w/ NaThio & No Pres.	SJ24004	6:00 AM	3.2
SJC East FE w/ NaThio & No Pres.	SJ24006	7:00 AM	2.90
SJC East FE w/ NaThio & No Pres.	SJ24010	8:00 AM	2.6
SJC East FE w/ NaThio & No Pres.	SJ24012	9:00 AM	1.70
SJC East FE w/ NaThio & No Pres.	SJ24018	10:00 AM	2.60
SJC East FE w/ NaThio & No Pres.	SJ24022	11:00 AM	2.00
SJC East FE w/ NaThio & No Pres.	SJ24026	12:00 PM	2.00

CYANIDE PROJECT
SJC EAST FINAL EFFLUENT Results FOR DIURNAL STUDY-8
REFERENCE # SJ
DATE FOR DAY 0: 03/10/05

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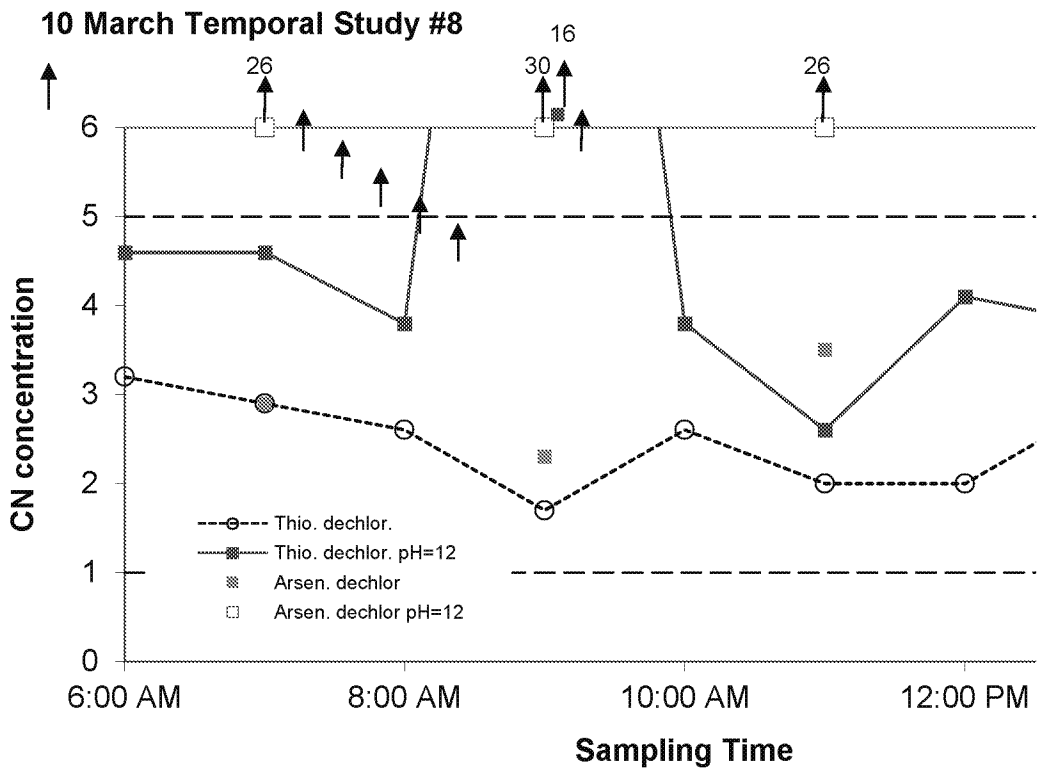
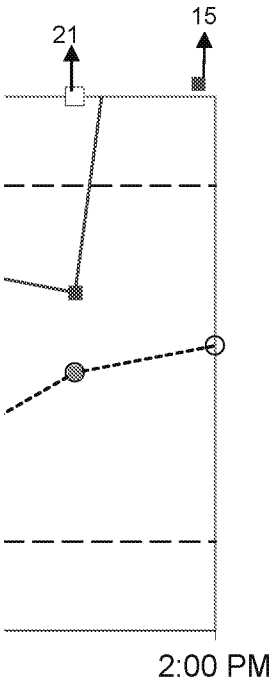
6
6
6




21
15
2:00 PM

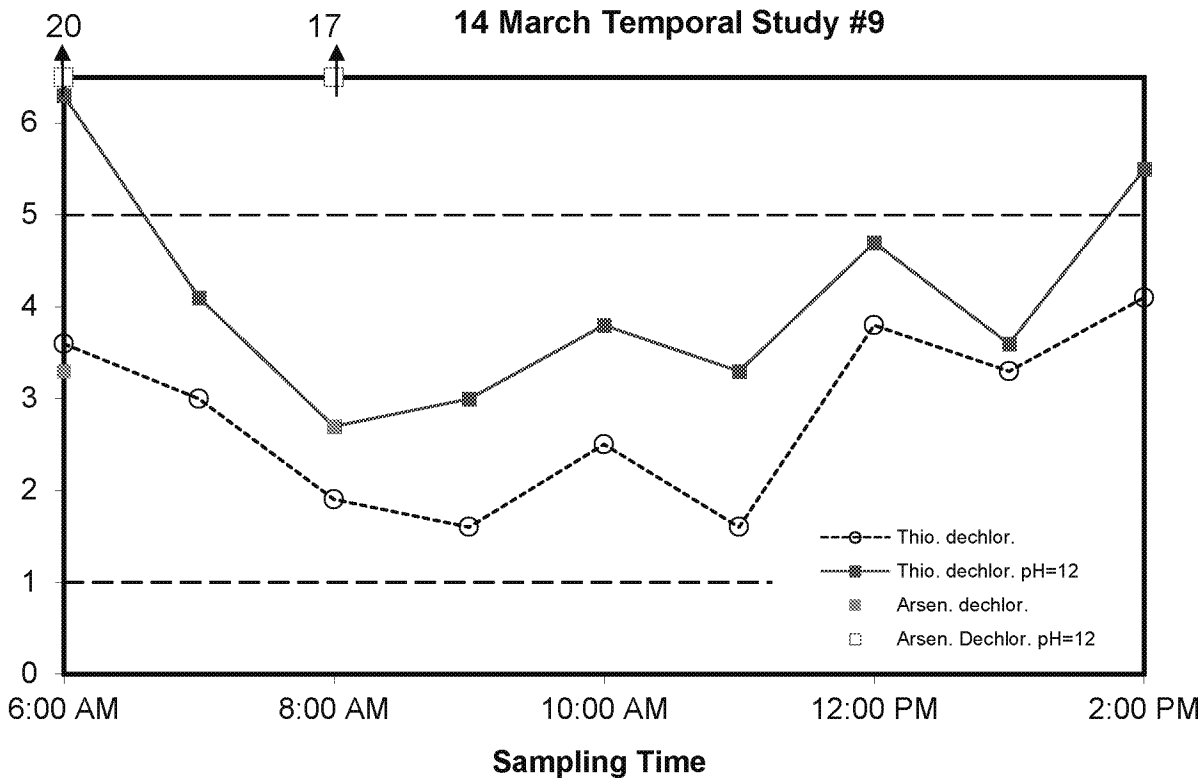
SJC East FE w/ NaThio & No Pres.	SJ24028	1:00 PM	2.90
SJC East FE w/ NaThio & No Pres.	SJ24032	2:00 PM	3.2

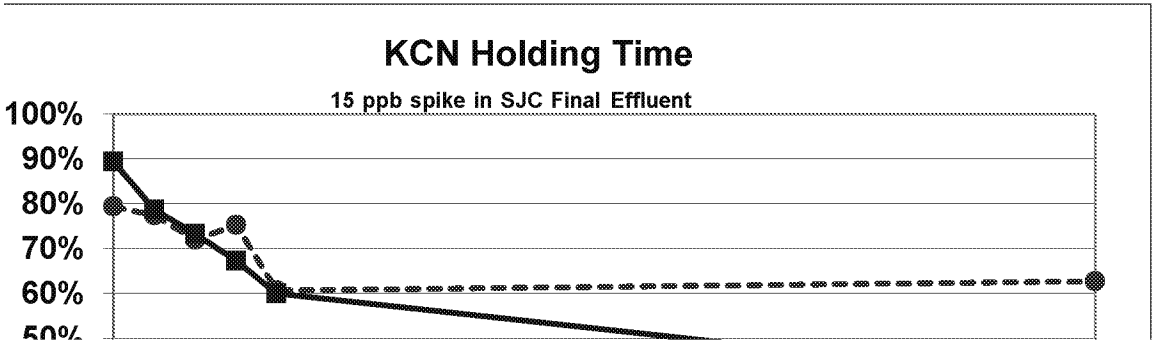
CYANIDE PROJECT
SAN JOSE CREEK EAST FINAL EFFLUENT pH RECORD FOR DIURNAL STUDY-9
REFERENCE # SJ24221
DATE FOR DAY 0: 03/14/05

Description	Login #	Time collected	Distill			
CN Res. DI Water 15ppb spk pH12 w/ 50% NaOH	SJ24241	10:00	15.7	105%		
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ24223	6:00 AM	3.3			
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ24229	8:00 AM	2.7			
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ24224	6:00 AM	20.3	6.50		
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ24230	8:00 AM	16.5	6.50		
CN Res. SJC East FE 15ppb spk pH12 w/50% NaOH	SJ24236	10:00 AM	15.7	79%	0	
CN Res. SJC East FE 15ppb spk pH12 w/50% NaOH **REANALYSIS**	SJ24240	10:00 AM	15.4	77%	1	
CN Res. SJC East FE 15ppb spk pH12 w/50% NaOH **REANALYSIS**	SJ24245	10:00 AM	14.6	72%	2	
CN Res. SJC East FE 15ppb spk pH12 w/50% NaOH **REANALYSIS**	SJ24249	10:00 AM	15.1	75%	3	
CN Res. SJC East FE 15ppb spk pH12 w/50% NaOH **REANALYSIS**	SJ24253	10:00 AM	12.9	61%	4	
			13.2	63%	24	
CN Res. SJC East FE Grab 15ppb spk No Pres.	SJ24235	10:00 AM	15.9	89%	0	
CN Res. SJC East FE Grab 15ppb spk No Pres **REANALYSIS**	SJ24239	10:00 AM	14.3	79%	1	
CN Res. SJC East FE Grab 15ppb spk No Pres **REANALYSIS**	SJ24244	10:00 AM	13.5	73%	2	
CN Res. SJC East FE Grab 15ppb spk No Pres **REANALYSIS**	SJ24248	10:00 AM	12.6	67%	3	
CN Res. SJC East FE Grab 15ppb spk No Pres **REANALYSIS**	SJ24252	10:00 AM	11.5	60%	4	
			8.5	40%	24	
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24222	6:00 AM	6.3			
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24226	7:00 AM	4.1			
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24228	8:00 AM	2.7			
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24232	9:00 AM	3			
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24234	10:00 AM	3.8			
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24238	11:00 AM	3.3			
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24243	12:00 PM	4.7			
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24247	1:00 PM	3.6			
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24251	2:00 PM	5.5			
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24221	6:00 AM	3.6			
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24225	7:00 AM	3			
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24227	8:00 AM	1.9			
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24231	9:00 AM	1.6			
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24233	10:00 AM	2.5			
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24237	11:00 AM	1.6			
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24242	12:00 PM	3.8			
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24246	1:00 PM	3.3			
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24250	2:00 PM	4.10			

CN concentration

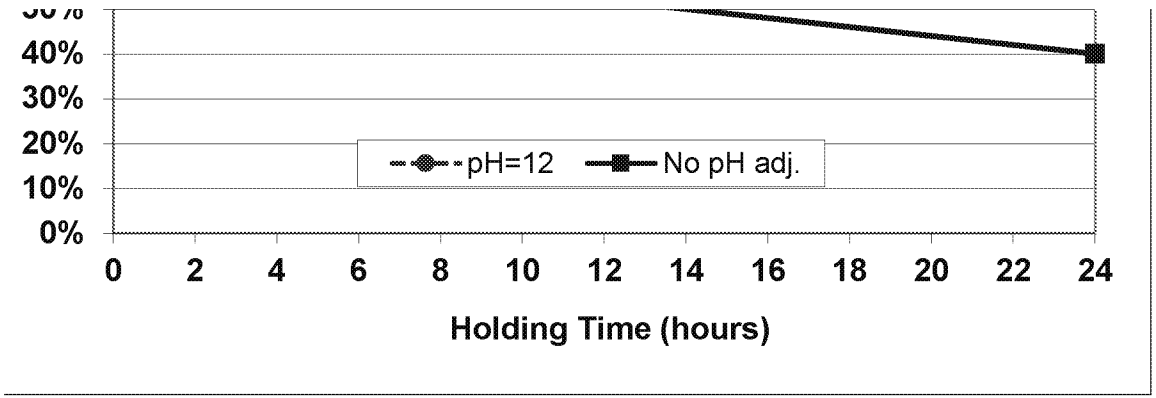
overy


14 March Temporal Study #9
20
17
6
5
4
3
2
1
0
6:00 AM
8:00 AM
10:00 AM
12:00 PM
2:00 PM
Sampling Time
Thio. dechlor.
Thio. dechlor. pH=12
Arsen. dechlor.
Arsen. Dechlor. pH=12


KCN Holding Time
15 ppb spike in SJC Final Effluent
100%
90%
80%
70%
60%
50%

% Rec

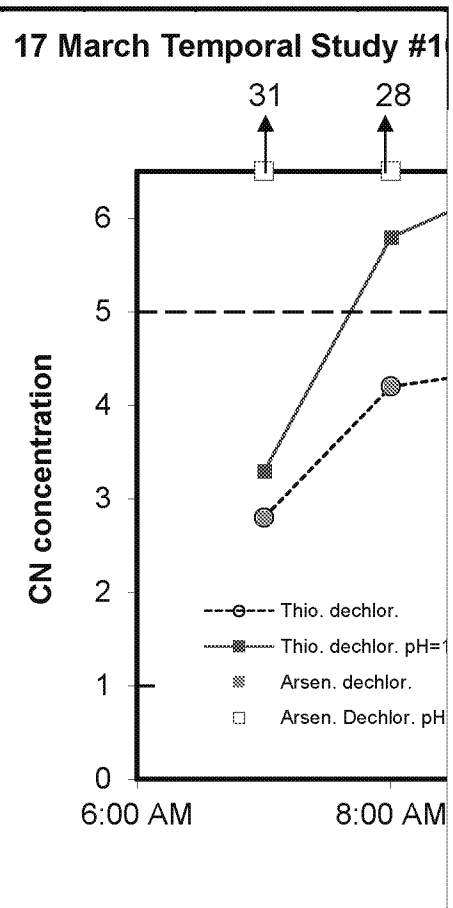
ED_002551_00001509-00034

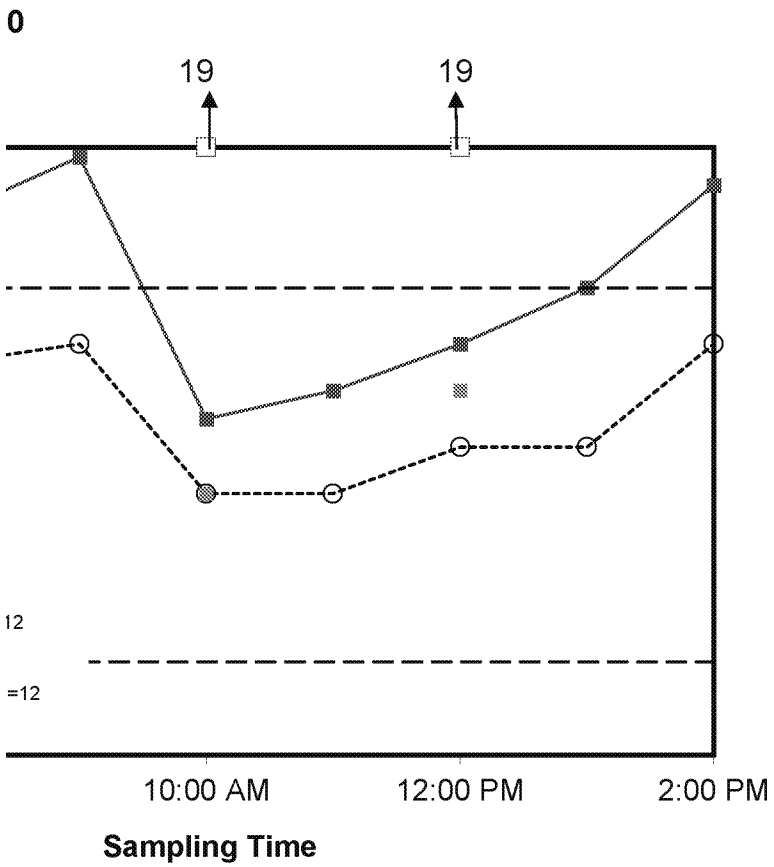

40%
30%
20%
10%
0%
pH=12
No pH adj.
0
2
4
6
8
10
12
14
16
18
20
22
24
Holding Time (hours)

Description
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE w/ NaThio & No Pres.
CN Res. SJC East FE w/ NaThio & No Pres.

CYANIDE PROJECT
SAN JOSE CREEK EAST FINAL EFFLUENT pH RECORD FOR TEMPORAL STUDY-10
DATE FOR DAY 0: 03/17/05

Login #	Time	CN	
SJ24583	7:00 AM	2.8	
SJ24587	8:00 AM	4.2	
SJ24593	10:00 AM	2.8	
SJ24599	12:00 PM	3.9	
SJ24584	7:00 AM	31.3	6.5
SJ24588	8:00 AM	27.7	6.5
SJ24594	10:00 AM	18.9	6.5
SJ24600	12:00 PM	19.1	6.5
SJ24582	7:00 AM	3.3	
SJ24586	8:00 AM	5.8	
SJ24590	9:00 AM	6.4	
SJ24592	10:00 AM	3.6	
SJ24596	11:00 AM	3.9	
SJ24598	12:00 PM	4.4	
SJ24602	1:00 PM	5	
SJ24604	2:00 PM	6.1	
SJ24581	7:00 AM	2.8	
SJ24585	8:00 AM	4.2	
SJ24589	9:00 AM	4.4	
SJ24591	10:00 AM	2.8	
SJ24595	11:00 AM	2.8	
SJ24597	12:00 PM	3.3	
SJ24601	1:00 PM	3.3	
SJ24603	2:00 PM	4.4	




0
19
19
12
=12
10:00 AM
12:00 PM
2:00 PM
Sampling Time

CYANIDE PROJECT
SAN JOSE CREEK EAST FINAL EFFLUENT pH RECORD FOR TEMPORAL STUDY-11
DATE FOR DAY 0: 03/21/05

Description	Login #	Time
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ24718	6:00 AM
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ24722	7:00 AM
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ24730	10:00 AM
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ24736	12:00 PM
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ24719	6:00 AM
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ24723	7:00 AM
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ24731	10:00 AM
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ24737	12:00 PM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24717	6:00 AM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24721	7:00 AM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24725	8:00 AM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24727	9:00 AM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24729	10:00 AM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24733	11:00 AM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24735	12:00 PM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24739	1:00 PM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ24741	2:00 PM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24716	6:00 AM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24720	7:00 AM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24724	8:00 AM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24726	9:00 AM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24728	10:00 AM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24732	11:00 AM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24734	12:00 PM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24738	1:00 PM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ24740	2:00 PM

CN	Initial pH	Initial Vol. mL	Vol. Of 50% NaOH in mL	pH Day 0
2.6	7.50	1000		7.50

2.6	
2.1	
1.8	
22.6	6.5
20.3	6.5
17.4	6.5
13.8	6.5
3.8	
3.5	
3.8	
3.2	
2.6	
3.2	
2.1	
4.1	
4.1	
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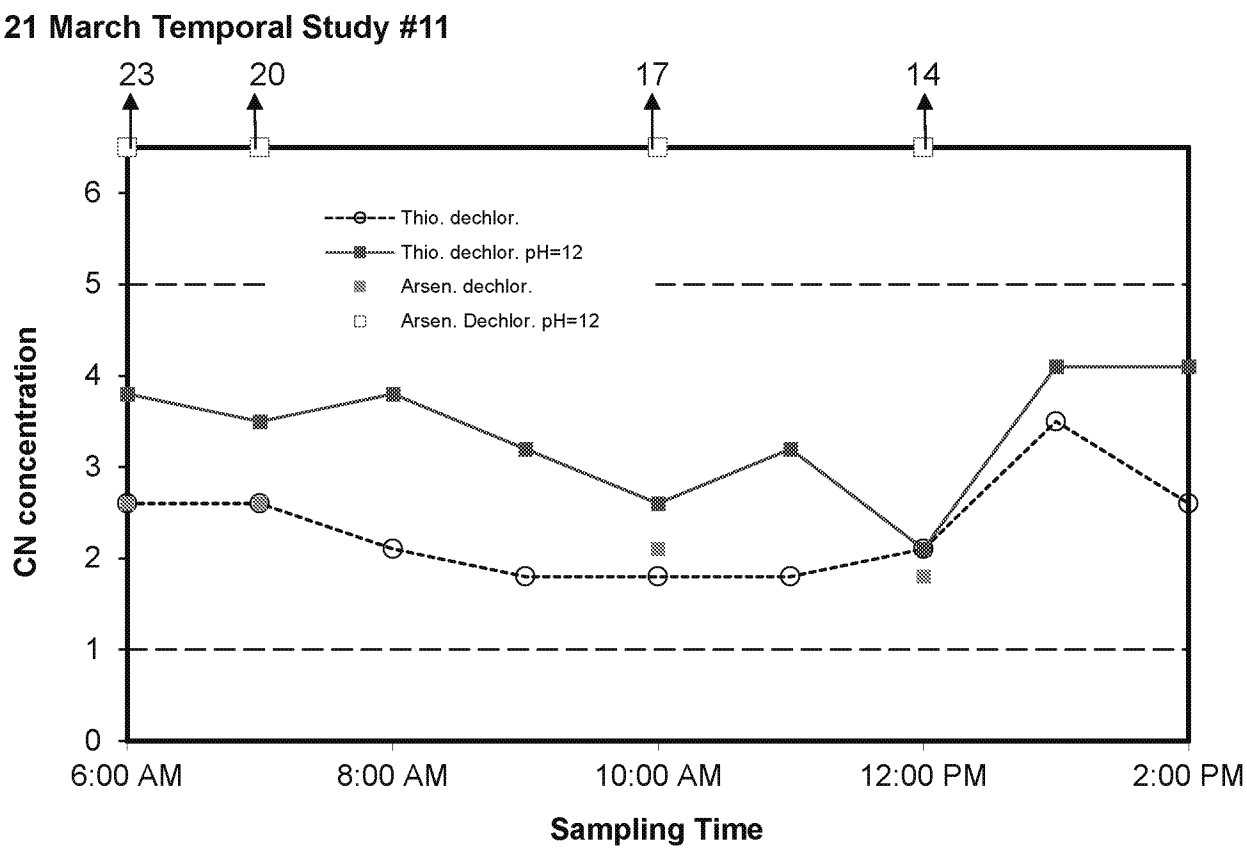
1.8	
1.8	
1.8	
2.1	
3.5	
2.6	

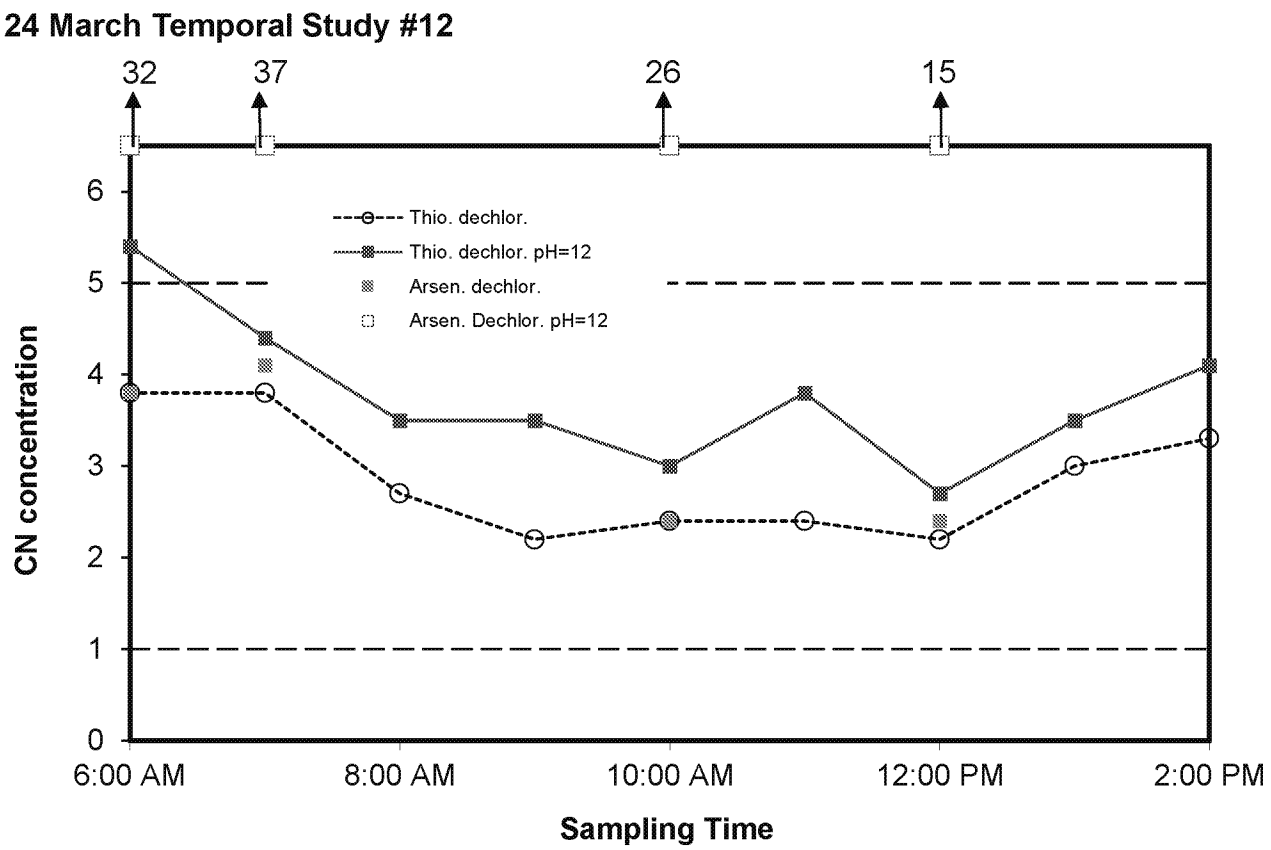


CYANIDE PROJECT
SAN JOSE CREEK EAST FINAL EFFLUENT pH RECORD FOR TEMPORAL STUDY-12
DATE FOR DAY 0: 03/24/05

Description	Login #	Time
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ25034	6:00 AM
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ25038	7:00 AM
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ25046	10:00 AM
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	SJ25052	12:00 PM
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ25035	6:00 AM
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ25039	7:00 AM
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ25047	10:00 AM
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	SJ25053	12:00 PM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ25033	6:00 AM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ25037	7:00 AM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ25041	8:00 AM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ25043	9:00 AM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ25045	10:00 AM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ25049	11:00 AM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ25051	12:00 PM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ25055	1:00 PM
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	SJ25057	2:00 PM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ25032	6:00 AM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ25036	7:00 AM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ25040	8:00 AM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ25042	9:00 AM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ25044	10:00 AM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ25048	11:00 AM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ25050	12:00 PM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ25054	1:00 PM
CN Res. SJC East FE w/ NaThio & No Pres.	SJ25056	2:00 PM

*** Reanalysis of Day 1on 3/28/05 (Day 4) pH = 8.12.**
**** Reanalysis of Day 1 on 3/28/05 (Day 4) pH = 11.68.**

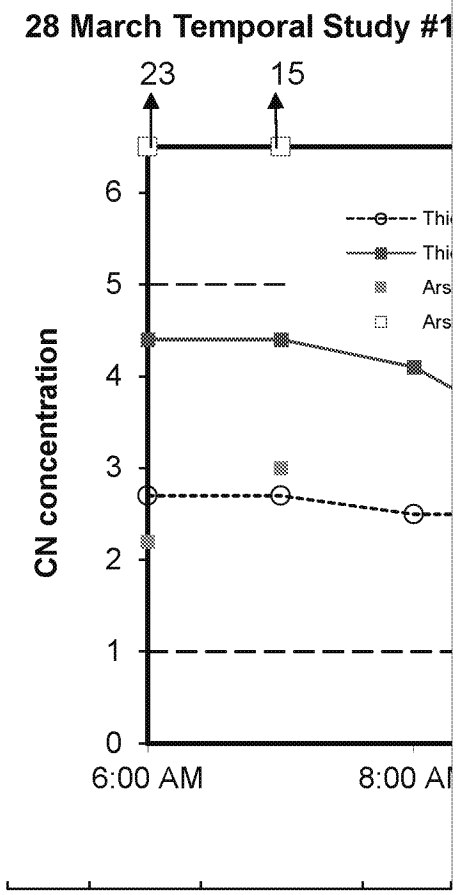
CN		Initial pH	Initial Vol. mL	Vol. Of 50% NaOH in mL	pH Day 0
3.8		7.50	1000		7.50
4.1		7.50	1000	1.4	
2.4		7.65	500		
2.4		7.65	500	1.0	
32.1	6.5	7.55	1000		
37	6.5	7.55	1000	1.5	
25.8	6.5	7.83	1000		
15	6.5	7.83	1000	1.1	
5.4		7.31	1000		
4.4		7.31	1000	2.0	
3.5		7.47	1000		
3.5		7.47	1000	1.8	
3		7.65	1000		
3.8		7.65	1000	2.0	
2.7		7.86	1000		
3.5		7.86	1000	1.0	
4.1		7.30	1000		
3.8		7.30	1000	2.1	
3.8		7.70	1000		
2.7		7.70	1000	1.5	
2.2		7.90	1000		
2.4		7.90	1000	1.2	
2.4		7.49	1000		
2.2		7.49	1000	1.3	
3		7.34	1000		
3.3		7.34	1000	1.7	

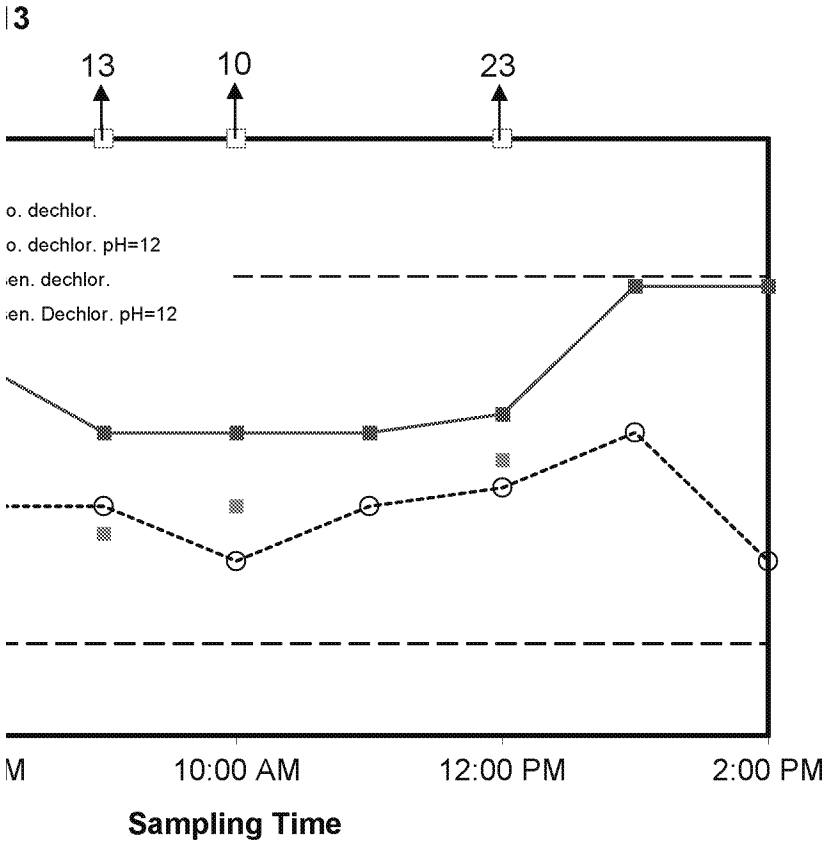


	Description
3	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.
7	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.
13	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.
17	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.
23	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.
4	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH
8	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH
14	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH
18	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH
24	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH
2	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
6	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
10	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
12	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
16	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
20	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
22	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
26	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
28	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
1	CN Res. SJC East FE w/ NaThio & No Pres.
5	CN Res. SJC East FE w/ NaThio & No Pres.
9	CN Res. SJC East FE w/ NaThio & No Pres.
11	CN Res. SJC East FE w/ NaThio & No Pres.
15	CN Res. SJC East FE w/ NaThio & No Pres.
19	CN Res. SJC East FE w/ NaThio & No Pres.
21	CN Res. SJC East FE w/ NaThio & No Pres.
25	CN Res. SJC East FE w/ NaThio & No Pres.
27	CN Res. SJC East FE w/ NaThio & No Pres.

CYANIDE PROJECT
SAN JOSE CREEK EAST FINAL EFFLUENT pH RECORD FOR TEMPORAL STUDY-12
DATE FOR DAY 0: 03/28/05

Login #	Time	CN		Initial pH	Initial Vol. mL	Vol. Of 50% NaOH in mL	pH Day 0
SJ25071	6:00 AM	2.2		7.65	1000		7.65
SJ25075	7:00 AM	3					
SJ25081	9:00 AM	2.2					
SJ25085	10:00 AM	2.5					
SJ25091	12:00 PM	3					
SJ25072	6:00 AM	23.2	6.5				
SJ25076	7:00 AM	14.7	6.5				
SJ25082	9:00 AM	13.4	6.5				
SJ25086	10:00 AM	9.8	6.5				
SJ25092	12:00 PM	13.1	6.5				
SJ25070	6:00 AM	4.4					
SJ25074	7:00 AM	4.4					
SJ25078	8:00 AM	4.1					
SJ25080	9:00 AM	3.3					
SJ25084	10:00 AM	3.3					
SJ25088	11:00 AM	3.3					
SJ25090	12:00 PM	3.5					
SJ25094	1:00 PM	4.9					
SJ25096	2:00 PM	4.9					
SJ25069	6:00 AM	2.7					
SJ25073	7:00 AM	2.7					
SJ25077	8:00 AM	2.5					
SJ25079	9:00 AM	2.5					
SJ25083	10:00 AM	1.9					
SJ25087	11:00 AM	2.5					
SJ25089	12:00 PM	2.7					
SJ25093	1:00 PM	3.3					
SJ25095	2:00 PM	1.9					

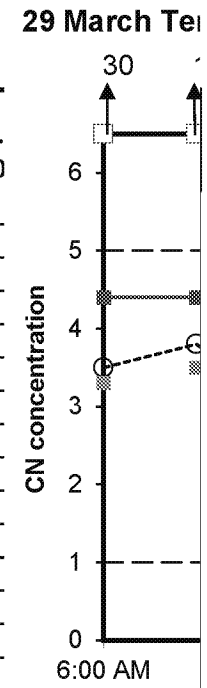


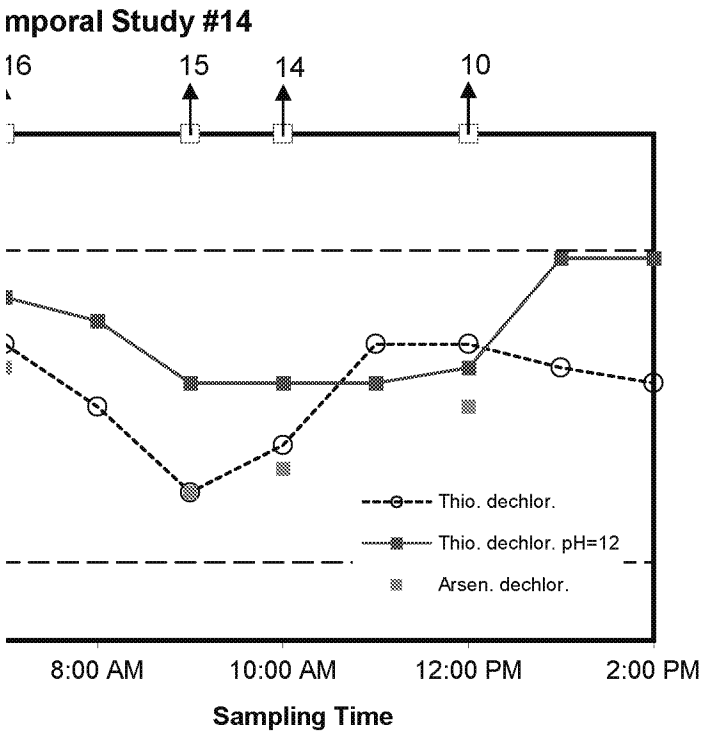

3
13
10
23
o. dechlor.
o. dechlor. pH=12
en. dechlor.
en. Dechlor. pH=12
M
10:00 AM
12:00 PM
2:00 PM
Sampling Time

	Description
3	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.
7	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.
13	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.
17	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.
23	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.
4	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH
8	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH
14	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH
18	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH
24	CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH
2	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
6	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
10	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
12	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
16	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
20	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
22	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
26	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
28	CN Res. SJC East FE Grab w/ 50% NaOH to pH 12
1	CN Res. SJC East FE w/ NaThio & No Pres.
5	CN Res. SJC East FE w/ NaThio & No Pres.
9	CN Res. SJC East FE w/ NaThio & No Pres.
11	CN Res. SJC East FE w/ NaThio & No Pres.
15	CN Res. SJC East FE w/ NaThio & No Pres.
19	CN Res. SJC East FE w/ NaThio & No Pres.
21	CN Res. SJC East FE w/ NaThio & No Pres.
25	CN Res. SJC East FE w/ NaThio & No Pres.
27	CN Res. SJC East FE w/ NaThio & No Pres.

CYANIDE PROJECT
SAN JOSE CREEK EAST FINAL EFFLUENT pH RECORD FOR TEMPORAL STUDY-13
DATE FOR DAY 0: 03/29/05

Login #	Time	CN		Initial pH	Initial Vol. mL	Vol. NaO	
SJ25211	6:00 AM	3.3		7.78	500		
SJ25215	7:00 AM	3.5		8.04	500		
SJ25221	9:00 AM	1.9		8.17	500		
SJ25225	10:00 AM	2.2		8.17	1000		
SJ25231	12:00 PM	3		8.09	500		
SJ25212	6:00 AM	30.5	6.50	7.78	500		
SJ25216	7:00 AM	15.5	6.50	8.04	500		
SJ25222	9:00 AM	14.7	6.50	8.17	500		
SJ25226	10:00 AM	14.2	6.50	8.17	1000		
SJ25232	12:00 PM	9.5	6.50	8.09	500		
SJ25210	6:00 AM	4.9		7.90	1000		
SJ25214	7:00 AM	4.9		7.75	1000		
SJ25218	8:00 AM	4.1		7.65	1000		
SJ25220	9:00 AM	3.3		7.81	1000		
SJ25224	10:00 AM	3.3		7.81	1000		
SJ25228	11:00 AM	4.9		7.65	1000		
SJ25230	12:00 PM	4.6		7.65	1000		
SJ25234	1:00 PM	4.4		7.60	1000	1.2	12.01
SJ25236	2:00 PM	4.4		7.55	1000	1.2	12.05
SJ25209	6:00 AM	3.5		7.90	1000		7.90
SJ25213	7:00 AM	3.8		7.75	1000		7.75
SJ25217	8:00 AM	3		7.65	1000		7.65
SJ25219	9:00 AM	1.9		7.81	1000		7.81
SJ25223	10:00 AM	2.5		7.81	1000		7.81
SJ25227	11:00 AM	3.8		7.65	1000		7.65
SJ25229	12:00 PM	3.8		7.65	1000		7.65
SJ25233	1:00 PM	3.5		7.60	1000		7.60
SJ25235	2:00 PM	3.3		7.55	1000		7.55




mporal Study #14
16
15
14
10
Thio. dechlor.
Thio. dechlor. pH=12
Arsen. dechlor.
8:00 AM
10:00 AM
12:00 PM
2:00 PM
Sampling Time

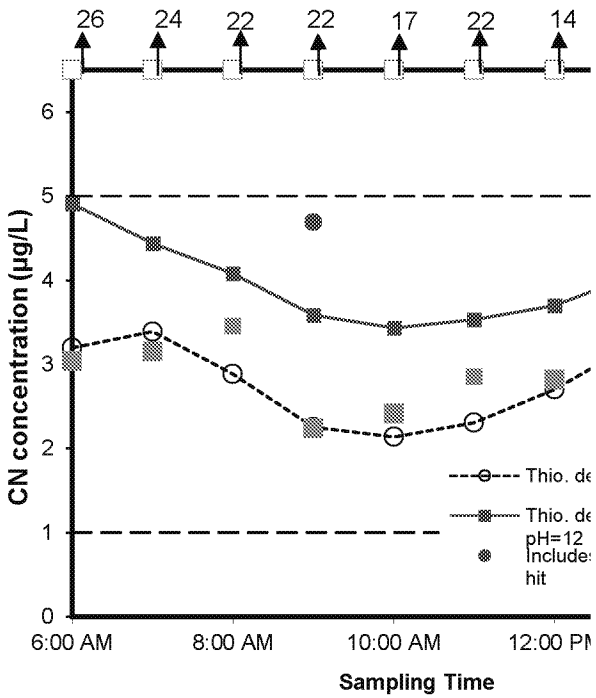
5 1

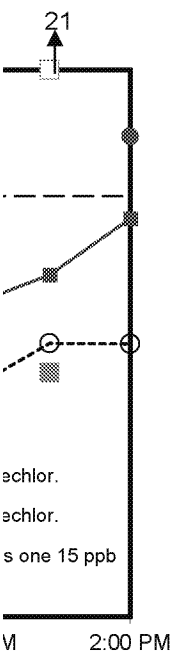
5 1

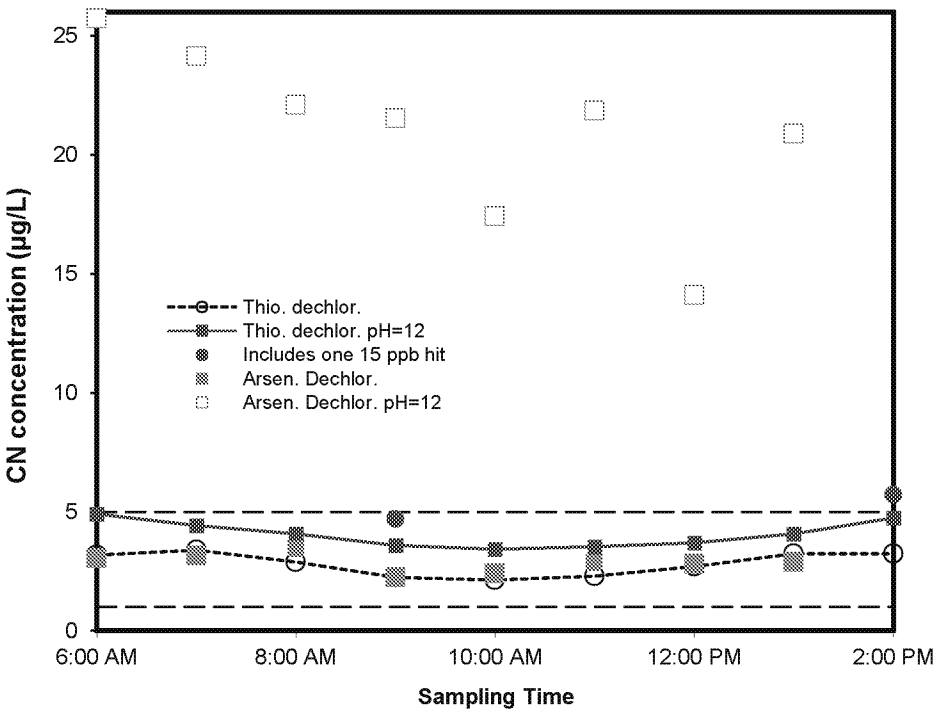
		29-Mar	28-Mar	24-Mar	21-Mar
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	6:00 AM	4.9	4.4	5.4	3.8
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	7:00 AM	4.9	4.4	4.4	3.5
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	8:00 AM	4.1	4.1	3.5	3.8
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	9:00 AM	3.3	3.3	3.5	3.2
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	10:00 AM	3.3	3.3	3	2.6
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	11:00 AM	4.9	3.3	3.8	3.2
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	12:00 PM	4.6	3.5	2.7	2.1
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	1:00 PM	4.4	4.9	3.5	4.1
CN Res. SJC East FE Grab w/ 50% NaOH to pH 12	2:00 PM	4.4	4.9	4.1	4.1
CN Res. SJC East FE w/ NaThio & No Pres.	6:00 AM	3.5	2.7	3.8	2.6
CN Res. SJC East FE w/ NaThio & No Pres.	7:00 AM	3.8	2.7	3.8	2.6
CN Res. SJC East FE w/ NaThio & No Pres.	8:00 AM	3	2.5	2.7	2.1
CN Res. SJC East FE w/ NaThio & No Pres.	9:00 AM	1.9	2.5	2.2	1.8
CN Res. SJC East FE w/ NaThio & No Pres.	10:00 AM	2.5	1.9	2.4	1.8
CN Res. SJC East FE w/ NaThio & No Pres.	11:00 AM	3.8	2.5	2.4	1.8
CN Res. SJC East FE w/ NaThio & No Pres.	12:00 PM	3.8	2.7	2.2	2.1
CN Res. SJC East FE w/ NaThio & No Pres.	1:00 PM	3.5	3.3	3	3.5
CN Res. SJC East FE w/ NaThio & No Pres.	2:00 PM	3.3	1.9	3.3	2.6

CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	6:00 AM	3.3	2.2	3.8	2.6
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	7:00 AM	3.5	3	4.1	2.6
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	8:00 AM				
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	9:00 AM	1.9	2.2		
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	10:00 AM	2.2	2.5	2.4	2.1
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	11:00 AM				
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	12:00 PM	3	3	2.4	1.8
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LNo Pres.	1:00 PM				
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	6:00 AM	30.5	23.2	32.1	22.6
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	7:00 AM	15.5	14.7	37	20.3
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	8:00 AM				
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	9:00 AM	14.7	13.4		
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	10:00 AM	14.2	9.8	25.8	17.4
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	11:00 AM				
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	12:00 PM	9.5	13.1	15	13.8
CN Res. SJC E FE Grab w/NaAsO2 3.0mL of 0.1N to 0.5LpH12 w/ 50NaOH	1:00 PM				

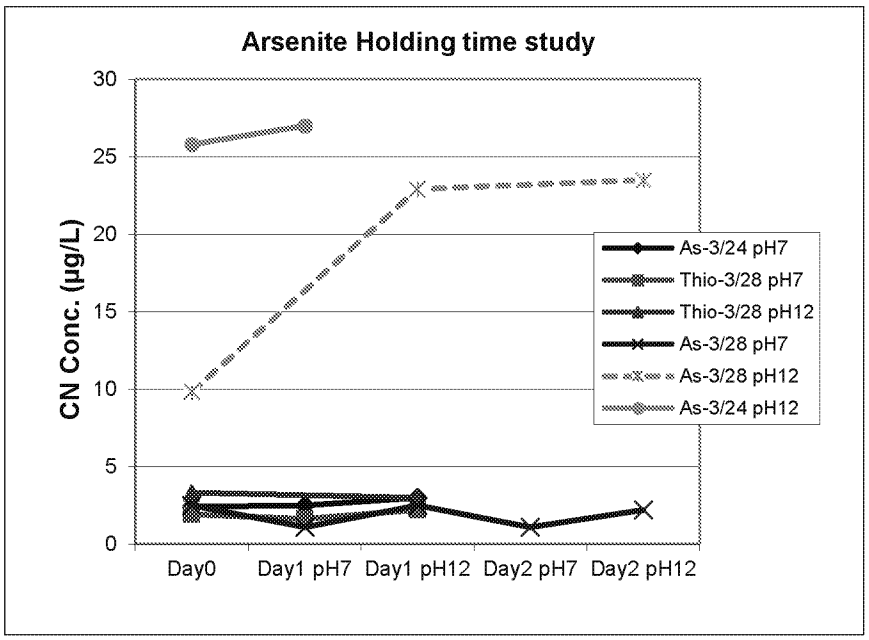
17-Mar	14-Mar	10-Mar	8-Mar	7-Mar	3-Mar	28-Feb	Avg less hits	Avg	Diff pH12-no adj		
	6.3	4.6	4.9	4.6	5.6	4.6	4.9		1.7	5	1
3.3	4.1	4.60	4.9	5.7	5.6	3.4	4.4		1.0		
5.8	2.7	3.8	4.9	5.4	4.5	2.3	4.1		1.2		
6.4	3		3.0	2.9	3.9	3.4	3.6	4.7	1.3		
3.6	3.8	3.80	3	4.3	3.7	3.4	3.4		1.3		
3.9	3.3	2.60	2.2	4.3	4.5	2.9	3.5		1.2		
4.4	4.7	4.10	3	4.3	4.2	3.1	3.7		1.0		
5	3.6	3.8	3.8	5.4	4.2	2	4.1		0.8		
6.1	5.5		4.1	4.3	5.6	4.3	4.7	5.7	1.5		
	3.6	3.2	2.7	3.1	3.7	3.1	3.2		**1.2**		
2.8	3	2.90	3.3	3.4	3.9	5.1	3.4				
4.2	1.9	2.6	3	2.6	3.1	4	2.9				
4.4	1.6	1.70	1.6	2.6	2.5	2	2.3				
2.8	2.5	2.60	1.6	2	2	1.4	2.1				
2.8	1.6	2.00	1.6	2.90	2.3	1.70	2.3				
3.3	3.8	2.00	1.9	3.4	2.5	2	2.7				
3.3	3.3	2.90	3	4	3.7	2.3	3.3				
4.4	4.10	3.2	3	3.4	2.8	3.7	3.2			5	1
15.7	15.4										
	3.3							3.0			
2.8		2.9									
4.2	2.7										
		2.30	2.5	2.3							
2.8			2.5								
		3.50	2.2								
3.9											
		2.9									
	20.3										
31.3		26.1									
27.7	16.5										
		29.90	22.5	27.20							
18.9			18.4								
		26.10	17.6								
19.1											
		20.9									




21
echlor.
echlor.
s one 15 ppb
M
2:00 PM


CN concentration (µg/L)
25
20
15
10
5
0
Thio. dechlor.
Thio. dechlor. pH=12
Includes one 15 ppb hit
Arsen. Dechlor.
Arsen. Dechlor. pH=12
6:00 AM
8:00 AM
10:00 AM
12:00 PM
2:00 PM
Sampling Time

Date Sampled			Dechlor	Day0	Day1 pH7	Day1 pH12	Day2 pH7	Day2 pH12
3/24/2005	As-3/24 pH7	SJ25046	As	2.4	2.5	3		
3/24/2005	As-3/24 pH12	SJ25047	As	25.8	27			
3/28/2005	Thio-3/28 pH7	SJ25083	Thio	1.9	1.6	2.2		
3/28/2005	Thio-3/28 pH12	SJ25084	Thio	3.3		3		
3/28/2005	As-3/28 pH7	SJ25085	As	2.5	1.1	2.5	1.1	2.2
3/28/2005	As-3/28 pH12	SJ25086	As	9.8		22.9		23.5

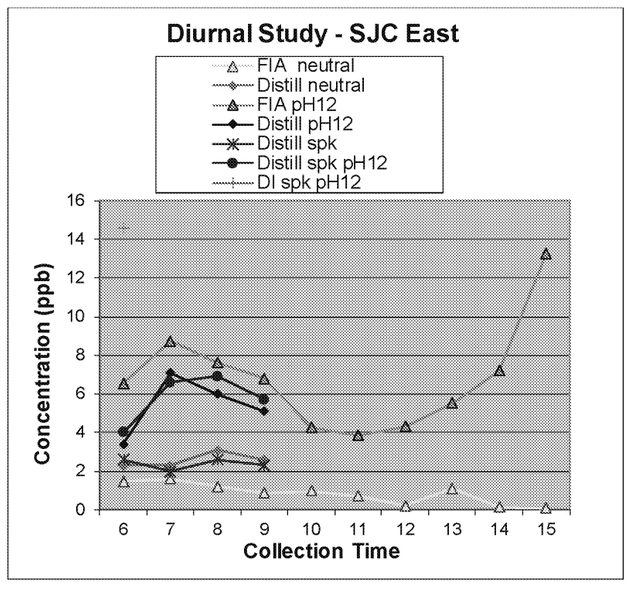


Login #	Colln Time	FIA	Distill
SJ22106	6	1.48	2.30
SJ22110	7	1.62	2.30
SJ22114	8	1.21	3.10
SJ22118	9	0.88	2.60
SJ22122	10	0.99	
SJ22124	11	0.72	
SJ22126	12	0.22	
SJ22128	13	1.10	
SJ22130	14	0.15	
SJ22132	15	0.08	

Login #	Colln Time	FIA pH12	Distill pH12
SJ22107	6:00	6.54	3.40
SJ22111	7:00	8.74	7.10
SJ22115	8:00	7.61	6.00
SJ22119	9:00	6.80	5.10
SJ22123	10:00	4.28	
SJ22125	11:00	3.85	
SJ22127	12:00	4.32	
SJ22129	13:00	5.52	
SJ22131	14:00	7.20	
SJ22133	15:00	13.29	

Login #	Colln Time	Distill spk	
SJ22108	6:00	2.60	1.4
SJ22112	7:00	2.00	1.4
SJ22116	8:00	2.60	0.9
SJ22120	9:00	2.30	1.1

	Login #	Colln Time	Distill spk pH12	
	SJ22109	6:00	4.00	3.4
	SJ22113	7:00	6.60	6
	SJ22117	8:00	6.90	4.8
	SJ22121	9:00	5.70	5.1
DI spk pH12	SJ22134		14.60	14.5



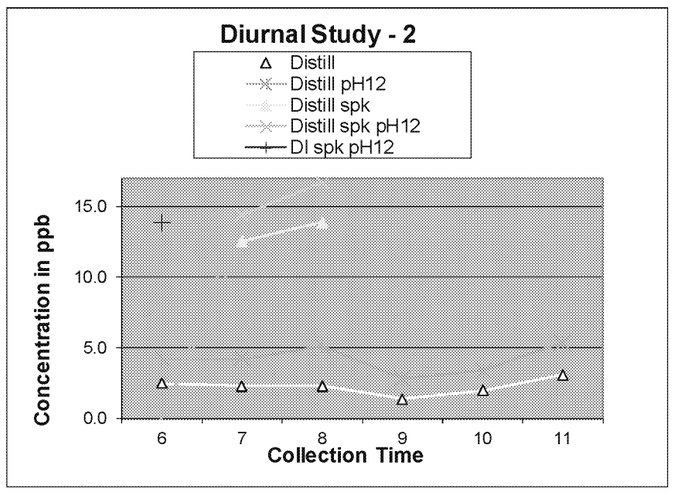
Diurnal Study Day - 2

Login #	Colln Time	Distill
SJ22225	6	2.5
SJ22227	7	2.3
SJ22231	8	2.3
SJ22235	9	1.4
SJ22237	10	2.0
SJ22239	11	3.1

Login #	Colln Time	Distill pH12
SJ22226	6:00	4.2
SJ22228	7:00	4.2
SJ22232	8:00	5.1
SJ22236	9:00	2.8
SJ22238	10:00	3.4
SJ22240	11:00	5.4

Login #	Colln Time	Distill spk	
SJ22229	7:00	12.60	0
SJ22233	8:00	13.90	0

	Login #	Colln Time	Distill spk pH12	
	SJ22230	7:00	14.40	0
	SJ22234	8:00	16.70	0
DI spk pH12	SJ22249		13.90	



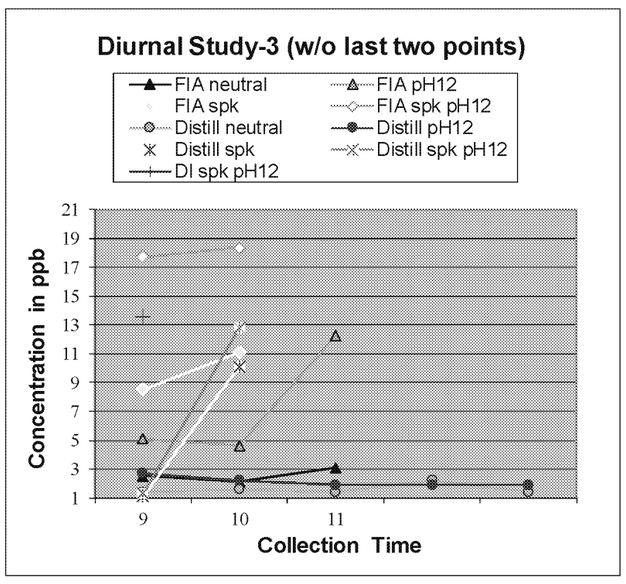
Diurnal Study Day - 3

Login #	Colln Time	FIA neutral	Distill neutral
SJ22731	9	2.52	1.40
SJ22735	10	2.09	1.6
SJ22739	11	3.10	1.4
SJ22741	12	14.46	2.2
SJ22743	13	1.75	1.4
SJ22745	14		
SJ22747	15		

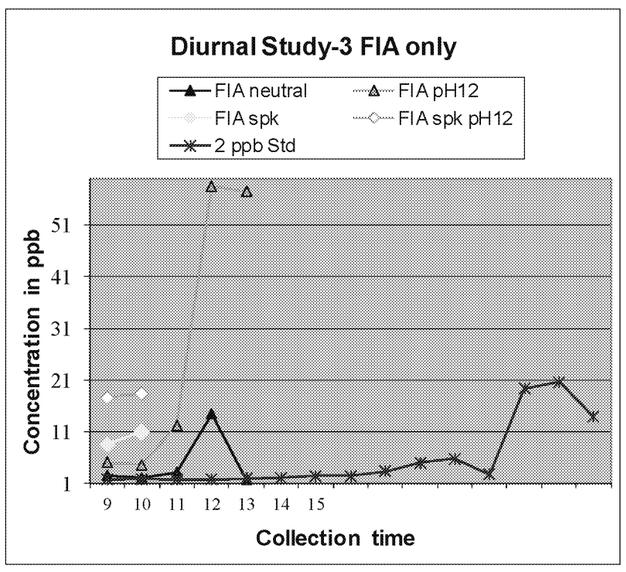
Login #	Colln Time	FIA pH12	Distill pH12
SJ22732	9:00	5.08	2.70
SJ22736	10:00	4.65	2.2
SJ22740	11:00	12.26	1.9
SJ22742	12:00	58.47	1.9
SJ22744	13:00	57.46	1.9
SJ22746	14:00		
SJ22748	15:00		

Login #	Colln Time	FIA spk	Distill spk
SJ22733	9:00	8.54	1.1
SJ22737	10:00	11.08	10.11

	Login #	Colln Time	FIA spk pH12	Distill spk pH12
	SJ22734	9:00	17.71	1.3
	SJ22738	10:00	18.36	12.8
DI spk pH12	SJ22749			13.6



Description	Detection Time	FIA Data
2 ppb Std	10.26	1.82
2 ppb Std	10.34	1.88
2 ppb Std	10.42	1.75
2 ppb Std	10.5	1.77
2 ppb Std	10.58	1.99
2 ppb Std	11.06	2.04
2 ppb Std	11.14	2.51
2 ppb Std	11.21	2.47
2 ppb Std	11.29	3.32
2 ppb Std	11.37	4.96
2 ppb Std	11.45	5.79
2 ppb Std	13.27	2.79
2 ppb Std	13.35	19.33
2 ppb Std	13.43	20.66
2 ppb Std	13.5	13.85



	Login #	Colln Time	FIA spk	Distill spk	%Rec FIA	%Rec DistIl
15ppb spk-neutral	SJ22733	9:00	8.54	1.1	40.1	0
15ppb spk-neutral	SJ22737	10:00	11.08	10.11	59.92	56.66
15ppb spk-pH12	SJ22734	9:00	17.71	1.3	84.2	0
15ppb spk-pH12	SJ22738	10:00	18.36	12.8	91.4	70.6