	THOMPSON CK (BACKGROUND)			THOMPSON CK (DOWNSTREAM)			001 (BUCKSKIN CK)			002 (Pat Hughes CK)			EPP Guidelines	Water Quality Criteria (Chronic LOEL)	
	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN			
pH	6.6	8.6	7.6	7.0	8.9	7.6	7.6	7.75	7.9	7.7	7.95	8.1	N/A		
TSS (mg/l)	0	52	6	0	80	8.4	1.0	12.0	6.32	1.0	95.0	8.1	N/A		
As "	<.005	.02	1+ sample	All < .005			<.005	.01		<.005	.031		N/A	.19	1.9
Cd "	All < .005			All < .005			.001	.005		.001	.005		.0039	.0011	.011
Pb "	All < .05			All < .05			No data			No data			.3	.0032	.032
Hg "	<.0005	.0015	5+ samples	<.0005	.0016	3+ samples	No data			No data			.001	.000012	[illegible]
Cu "	<.01	.02	5+ samples	All <.01			<.01	.01	.01	<.01	.01		.15	.012	.12
ZN "	.003	.044	.018	.001	.028	.016	.005	.054	.025	<.01	.083	.037	.75	.047	.47
Flow (cfs)				4.8	132	24.3	0	9.5	.6	0	8.6	.5			

7.8
7.8

15 7.6 — 001 Min

8.5 6.8
7
7
7.8
7.4
7.6
[illegible]
7.1
8.8
7.6
8.5
8.6
7.4
7.4
7.4

15 7.75 — 001 Av

9.1 7.3
7.3
7.6
7.8
7.8
8.2
[illegible]
7.9
8.8
8.1
8.7
8.75
7.4
7.8
8.4

15 7.9 — 001 Max

8.1 9.7
7.8
8.4
7.8
8.1
8.7
8.8
8.5
8.5
8.8
8.9
8.6
8.3
9.3

54 7.7 — 002 Min

6.8 8.2 8.5 7.4
6.4 8.3 8.6 7.3
8.0 8.2 8.5 7.0
7.6 8.2 7.0
7.9 8.2 7.0
7.7 8.2 8.6
7.1 7.8 8.4
7.9 7.8 8.1
7.4 8.6 7.6
7.4 8.3 7.7
7.5 8.3 7.0
7.2 8.0 7.4
7.6 8.0 7.8
7.7 8.0 7.1
8.4 7.9 7.7
6.7 7.8 7.8
6.9 7.4 8.3

7.95 — 002 Av

8.6 7.6 7.9
8.8 7.6 7.3
8.6 7.3 7.8
8.3 7.3 7.7
8.4 8.0 7.7
8.3
8.1 8.0 7.7
8.1 7.7
8.0 7.8 8.4
7.8 7.1
8.0 7.3 7.4
7.9 7.7 7.4
8.3
8.3 8.1 7.7
8.4 7.7 8.0
8.35 8.0
7.8 8.5
7.9

54 8.2 — 002 Max

8.0 9.1
7.8 8.7 8.1
8.0 8.4 8.1
7.8 8.6 8.1
8.4 7.5
8.8 8.4 8.2
9.2
8.7 9.1 7.9
8.7 8.5 8.1
8.7 8.1
8.2 8.4 8.7
8.1 8.1 8.6
8.0 8.1 8.5
7.6 8.0 8.7
7.9 8.3 7.5
8.3 8.0 7.8
8.2 8.7
8.1 8.4 7.8
8.7 8.5 8.5
8.8 8.5 8.0

Thompson Creek -

Background - above Buckskin Ck.

Parameter	Min	Max	Mean
pH	6.6	8.6	7.6
TSS	0	52	6.0
Arsenic	<.005	*.02 - only positive sample	
Cadmium	All <.005		
Lead	All <.05		
Mercury	<.0005	.015	5 + samples - all in excess of criteria
Copper	<.01	.02	5 + samples
Zinc	.003	.044	.018

Downstream - Below Pat Hughes Ck.

Parameter	Min	Max	Mean
pH	7.0	8.9	7.6
TSS	0	80	8.4
Arsenic	All <.005		
Cadmium	All <.005		
Lead	All <.05		
Mercury	<.0005	.0016	3 + samples all in excess of criteria
Copper	All <.01		
Zinc	.001	.028	.016

Cyprus

EFFLUENT GUIDELINES

	MAX	30 day	Required Dilution	Acute LOEL	Chronic LOEL
				@ Hardness =	
Cu	0.3	0.15	13:1	.018	.012
Zn	1.5	0.75	16:1	.320	.047
Pb	0.6	0.3	94:1	.082	.0032
Hg	0.002	0.001	83:1	.0024	.000012
Cd	0.1	0.05	46:1	.0039	.0011
As				.36	.19

Receiving H_2O Monitoring

SQ4 - Bruno Creek (USGS gauging station)
SQ3 - Squaw Ck above Bruno Ck
SQ2 - Squaw Ck below Bruno Ck (USGS gauging Sta.)
SQ1 - Squaw Ck at mouth

TC4 - Thompson Ck above Buckskin Ck.
TC3 - Thompson Ck below Buckskin Ck.
TC2 - Thompson Ck above Pat Hughes Ck.
TC1 - Thompson Ck below Pat Hughes Ck.

7Q10
Thompson Ck = 1.8 cfs
Squaw Ck = 4.7 cfs
Salmon R. Clayton - 268 cfs

~~9.25% = 2%~~
~~8 3/4 = 3.0~~
~~8 3/4 2.25~~

$685
86,000

8.5 @ 3½ = 3,010 - 89010
8.625 @ 3 = 2,580 - 88580
8.75 @ 2.25 = 1,935 - 87935
8.875 @ 1.5 = 1,290 - 87290

$698

7.7
9.25
8.0

Express Mortgage

2.5 ds 1.0 pt orig
1.5 pts
8 3/4

8.5 - 3½
8 5/8 - 3
8 3/4 - 2¼
8 7/8 - 1½ — 45 days

Marvin

FLOW

DMR Data - Cyprus 3/82 - 12/86 Cyprus

001

Flow

	Av.		Max	
3/82	3438	5.32	6112	9.46
6/82	1616	2.5	2472	3.8
7/82	190	.29	710	1.1
4/83	1000	1.55	2827	4.37
5/83	1605	2.48	3388	5.24
6/83	1131	1.75	4079	6.31
7/83	139	.22	1239	1.92
5/84	1193	1.85	2524	3.9
7/84	6	.009	97	.15
4/85	270	.42	1013	1.57
5/85	128	.2	290	.45
6/85	26	.04	77	.12
4/86	3430	5.26	1190	1.8
5/86	5600	8.66	55000	85.1
6/86	1,150	1.78	2,470	3.82
7/86	42	.06	109	.17

7Q10 - Thompson Ck 1.8
Squaw Ck 4.7
Salmon R @ Clayton 268
Salmon R @ Salmon 596

001

Av = 1.3 MGD

Max = 3.43 MGD

002

Av = .3 MGD

Max = 5.56 MGD

002

	Av			Max				
3/82	176	.27	.45	290	10/85	.011	7	.02
4/82	1033	1.6	5.87	3745	11/85	.017	11	.02
5/82	3547	5.49	8.6	5557	12/85	.012	8	.02
6/82	993	1.54	3.82	2472	1/86	.009	6	.009
7/82	143	.22	.54	349	2/86	.009	6	.009
8/82	46	.07	.012	77	3/86	.91	590	3.48
9/82	80	.12	.34	219	4/86	1.92	1,240	2,250
10/82	128	.2	.35	245	5/86	2.8	1800	2.94
11/82	116	.19	.29	187	6/86	.94	604	1,900
12/82	88	.14	.17	110	7/86	.16	104	3.9
1/83	82	.13	.16	103	8/86	.01	6	.59
2/83	95	.15	.21	136	9/86	.01	10	.01
3/83	154	.24	.54	349	10/86	.01	10	.01
4/83	399	.62	2.6	1691	11/86	.01	7	.01
5/83	1619	2.51	3.32	134	12/86	.01	5	.01
6/83	617	.95	2.79	5034	1/87	0	.04	.06
7/83	94	.15	.17	110				
8/83	42	.06	.11	71				
9/83	41	.06	.08	52				
10/83	41	.06	.08	52				
12/83	37	.06	.06	39				
1/84	80	.12	5.44	3517				
2/84	60	.09		2375				3.67
5/84	1296	3.4		2646				4.09
7/84	78	.12		1413				2.19
8/84	34	.05		136				.21
9/84	6	.009		13				.02
10/84	3.4	.005		6.4				.01
11/84	.7	.001		1.3				.002
12/84	3.3	.005		3.08				.005
1/85	7.3	.01		32				.05
2/85	12	.019		64				.1
3/85	63	.097		187				.289
4/85	700	1.08		1413				2.19
5/85	194	.3		510				.789
6/85	29	.045		39				.06
7/85	11	.017		19				.029
8/85	180	.279		180				.279

Uchiis Letter -
Our response -
Congressional Letter -
Draft Response -

Talk to Roger re:
1. quantity of "Notice of intents"
2. status of response to legislature
3. talk to Rich re: warning letters first to CAFOS

TSS – Discharge

Cypress

001

AV	Max
3.2	57 → max
7.3	12
6.5	8
5	10
10.5	33
4.2	8
1.8	2
4	4
8.7	12
3.8	7
1.5	2
3.5	8
1	3
2	5
3	8
94.8	
AV = 6.32	

002

AV	Max
3.2	8
14	35
4.5	9
7	9
2.6	4
1.3	2
.2	1.0
1.8	3.0
1.0	3.0
4.5	7.0
1	3
1.	2
1.	6
2	2
3	4
1	3
1	1
39	191
1.	2
438.1	
AV = 8.1	

AV	Max
2	3
7.6	15
16	26
10.5	33
6.8	14
9.7	24
12.3	14
4.8	11
5	10
10.2	23
9.2	19
8.5	23
12.41	35
17.8	57
46.5	95 → max
6.8	13
7.2	23
3.8	7
3.5	6
9	12
22.5	80
6.3	11
1.8	4
15	41
4.6	8
2.5	7
9	9
1.	1
9.	27
21.8	49
1.	1
1.4	3
11.8	19
6.4	13
1.8	3

Copper - Effluent

Cyprus

001

<.01
<.01
<.01
.01 → MAX
<.01
.01
.01
.01
.01

002

.02
MAX ← .032
.01
<.01
<.01
<.01
<.01
<.01
<.01
.01
<.01
.01
<.01
.01
.01
.01
.01
.01

Zinc - Discharge

Cyprus

001

.054 → MAX
.033
.017
.031
.041
.012
.006
.005

.025 = AU

002

.065
<.01
.074
.058
.053
.024
.042
.021
MAX ← .083
.018
.028
.029
.051
.018
.019
.026
.030
.013

Cadmium - Effluent

Cyprus

001

< .001
< .005
.003 → MAX
< .005
.005
.005
.005
.005 → MAX

002

.001
< .001
< .005
< .005
< .005
< .005
< .005
< .005
MAX ← .004
.002
< .005
< .005
< .005
.005
.005
.005
MAX ← .005

Cyprus

Arsenic — Effluent

001

<.01
<.005
<.005
.01
.01 → MAX
.007
.0011
.005
.009

002

.01
<.01
<.01
<.005
<.005
<.005
<.005
<.005
.03
<.005
.015
.008
.031 ← MAX
.011
.009
.005
.007