1 2.9 3 2.9 5 3.0 5 3.0 12 3.0 15 3.1 10 3.0 21 3.0	1 2.9 3 2.9 5 3.0 12 3.0 10 3.0	1 2.9 3 2.9 5 3.0 12 3.0 15 3.1	1 2.9 3 2.9 5 3.0 12 3.0	5 3 3.0	3 2.9 3	3 2.9	1 2.9	P. 0	2 29	07/27/95 3 2.9	05/25/95 12 3.0	03/30/95 10 3.0 0	03/01/95 12 3.1 (12/28/94 12 3.1 (Sampled (gpm) pH m	Date Flow Lab. A
0.0 202.0 0.0 206.0 0.0 178.0 0.0 166.0		++		_	+	0.0 174.0	0.0 220.0	0.0 206.0	0.0 212.0	0.0 192.0	0.0 172.0	0.0 248.0	0.0 246.0	0.0 244.0	mg/L mg/L	Alk. Acidity
5.3	0.0	20	8.2	7.9	8.5	8.2	13.1	17.3	20.4	9.0	7.8	13.3	16.8	16.4	mg/L	Iron 1
	1.3	1.6	1.7	1.9	1.5	2.3	2.2	2.2	2.0	1.6	1.6	2.0	2.0 2	2.5 2		Mang.
	12.2 340	15.2 624	15.6 403	16.6 505	12.2 437	10.7 433	11.9 338	12.2 413	10.4 310	11.5 459	13.2 339	19.9 571	21.8 429	24.3 549	mg/L mg/L	Al. Sulfate
240	3	3	3	w	w	သ	12	3	2	3	3	3	3	2	- mg/L	e Susp.s.
0.50	42	21	37	29	12	6	8	2	5	7	25	30	35	35	lb/day	Acid Load
	1	1	_	_	_	0	0	0	0	0	_	2	2	2	lb/day	Iron Load
2	ω	2	ω	2	-	0	0	0	0	0	2	2	ω	4	lb/day	Al. Load
1	166	178	206	202	192	174	220	206	212	192	172	248	246	244	mg/L	Acid Net
<u>-</u>	-166	8/1-	-206	-202	-192	-174	-220	-206	-212	-192	-172	-248	-246	-244	mg/L	Alk. Net

SR85 DISCHARGE TREATED BY V. K. SYSTEM ABOVE V.K.1

Max. Range AVERAGE

20.00 21.00 1.00

3.1 2.9

0.0 0.0

11.2

1.3 2.5 1.2 1.9

> 10.4 310.00 624.00

2.00 12.00

NO

4 w

11 248 237

237 -248 -11

9

3.0

0.0 0.0

216.0

236.8 1913

15.1 10.9

13.9 314.00 15.2 444

10.00

33 20 41 42

w

248.0

20.4 5.3

24.3

Min.

75% tile

10/08/97	09/29/97	09/17/97	08/20/97	08/19/97	07/10/97	06/25/97	04/15/97	03/20/97	02/19/97	12/19/96	10/29/96	09/18/96	08/13/96	07/24/96	06/26/96	05/23/96	04/16/96	03/19/96	02/22/96	01/10/96	12/13/95	11/02/95	10/12/95	09/21/95	08/30/95	07/27/95	05/25/95	03/30/95	03/01/95	12/28/94	Sampled	Date
60	60	60	50	60	78	91	122	223	140	248	106	85	72	84	106	189	130	158	130	72	91	55	55	55	55	122	140	114	99	100	(gpm)	MOL
3.4	3.4	3.4	3.5	3.5	3.3	3.3	3.4	3.3	3.3	3.2	3.2	3.2	3.2	3.3	3.3	3.2	3.2	3.2	3.1	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.3	3.3	3.3	3.3	뫄	Lab.
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	mg/L	AIR.
98	76	78	80	70	70	64	76	90	128	108	116	104	104	94	10.2	104	100	130	124	102	110	106	124	108	88	92	94	106	104	102	mg/L	Acidity
2.6	2.0	1.9	1.3	4.1	1.0	1.1	3.0	2.6	5.1	4.8	5.0	4.2	6.0	5.9	4.4	3.5	3.2	4.3	4.3	2.7	3.2	4.4	5.1	5.9	5.1	5.0	6.2	7.8	6.8	6.6	mg/L	IVOIT
1.8	1.7	1.5	1.2	1.4	0.9	0.9	1.0	1.0	1.1	1.5	1.7	1.3	1.2	1.0	1.1	1.1	1.1	1.5	1.7	1.9	2.0	2.0	1.9	1.7	1.2	1.0	1.4	1.4	1.3	2.1	mg/L	Wang.
4.2	3.6	3.2	2.5	3.5	2.4	2.5	4.3	4.3	5.2	6.3	6.0	4.6	5.4	4.6	4.4	4.8	4.2	5.7	5.9	5.9	6.1	6.7	6.0	5.6	4.3	4.3	5.4	6.0	5.7	7.9	mg/L	Al.
422	344	289	265	240	223	242	280	281	298	349	423	309	261	273	247	253	318	312	380	451	470	438	311	325	214	258	243	346	273	429	mg/L	STRIID
63	۵	<3	<3	۵	<3	<3	<3	12	۵	3	۵	۵	<3	3	<3	3	3	3	۵	<3	۵	۵	6	۵	2	۵	۵	۵	۵	2	mg/L	Susp. 8.
71	55	56	48	50	66	70	111	241	215	322	148	106	90	95	13	236	156	247	194	88	120	70	82	71	58	135	158	145	124	123	lb/day	ACIO LOBO
2	_	_	_	3	-	1	4	7	9	14	6	4	5	8	6	8	5	8	7	2	4	ω	ω	4	w	7	6	11	8	8	lb/day	Iron Load
دد	ω	2	2	ယ	2	အ	6	12	9	19	8	5	S	55	6	1	7	1	9	(J)	7	4	4	4	ω	6	9	8	7	10	lb/day	Al. load
99	76	78	80	70	70	64	76	90	128	108	116	104	104	94	10	104	100	130	124	102	110	106	124	108	88	92	94	106	104	102	mg/L	Acid net
QR	-76	-78	80	-70	-70	-64	-76	-90	-128	-108	-116	-104	-104	-94	-10	-104	-100	-130	-124	-102	-110	-106	-124	-108	-88	-92	-94	-106	-104	-102	mg/L	alk.net

				147					181	108			122	75% tile
		6	5	115	6	328	4.9	1.5	4.1	93.9	0.0	3.3	1	AVERAGE
120	120	17	14	309	10.00	256	5.6	1.4	6.8	119.80	0.00	0.40	1	Range
-10	130	19	14	322	12.00	470	7.9	2.3	7.8	130.00	0.00		248	Max.
-13	10	N	1	13	2.00	214	2.4	0.9	1.0	10.20	0.00	3.10	50	Min.

SR86 DISCHARGE TREATED BY V.K. SYSTEM

Date	FIOW	Lab.	AIK.	Acidity	Iron	Mang.	Al.	Sulfate	Susp. S.	Acid Load	Iron Load	Al. load	Acid net	alk.net
Sampled		pН	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	lb/day	lb/day	lb/day	mg/L	ma/L
10/31/97	65	3.4	0	86	3.6	2.1	5.1	455	۵	67	3	4	86	-86
11/18/97	60	3.4	0	82	3.1	2.3	5.5	431	۵	59	2	4	82	-82
12/04/97	60	3.5	0	84	3.8	2.2	5.6	429	۵	61	3	4	84	-84
12/17/97	65	3.4	0	76	3.2	2.1	5.3	398	۵	59	2	4	76	-76
					The second of the second	The second second								

SR86 DISCHARGE TREATED BY V.K. SYSTEM

12/17/97	12/04/97	11/18/97	10/08/97	09/17/97	08/20/97	07/15/97	06/25/97	04/15/97	03/20/97	02/19/97	12/19/96	10/29/96	09/18/96	08/13/96	07/24/96	08/26/96	05/23/96	04/16/96	02/22/96	01/25/96	Sampled (gpm)	Date
				I	4	5	5	16	32	17	26	8	17	1	1	10	22	9			(gpm)	Flow
3.5	3.5	3.4	3.3	3.4	3.2	3.2	3.3	3.6	3.7	3.5	3.7	3.3	3.2	3.1	3.2	3.3	3.5	3.4	3.3	3.5	РН	Lab.
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	mg/L	Alk.
62.0	78.0	90.0	94.0	86.0	106.0	80.0	60.0	42.0	34.0	68.0	46.0	76.0	88.0	120.0	98.0	240.0	52.0	58.0	104.0	64.0	mg/L	Acidity
1.5	2.8	3.8	6.7	4.4	3.6	3.9	1.7	1.3	0.8	1.9	1.1	1.6	2.3	3.5	2.3	1.9	0.9	1.6	2.7	1.2	mg/L	Iron
1.6	2.2	2.8	3.0	3.2	2.7	2.5	1.5	1.1	0.8	1.5	1.0	1.8	1.4	3.1	2.2	1.5	0.9	1.3	1.7	1.2	mg/L	Mang.
5.4	7.3	7.5	5.5	3.7	5.9	4.2	3.1	3.2	2.5	4.6	3.2	6.0	4.8	8.3	6.5	5.3	3.3	4.2	8.0	5.9	mg/L	AL.
195	229	274	273	179	237	276	196	135	105	154	148	183	165	276	216	148	124	159	243	147	mg/L	Sulfate
۵	3	<3	<3	<3	<3	<3	<3	<3	10	<3	۵	<3	<3	<3	<3	3	3	3	3	3	mg/L	Susp.S
					5	5	4	8	13	14	14	7	18	1	4	29	14	6			lb/day	Acid Load
					0	0	0	0	0	0	0	0	0	0	0	0	0	0			lb/day	Iron Load
					0	0	0	1	1	1	1	1	1	0	0	1	1	0			lb/day	Al.load
62	78	90	94	86	106	80	60	42	34	68	46	76	88	120	98	240	52	58	104	64	mg/L	Net Acid
-62	-78	-90	-94	-86	-106	-80	-60	-42	-34	-68	-46	-76	-88	-120	-98	-240	-52	-58	-104	-64	mg/L	Net Alk

AVERAGE 75% tile

12 32

3.4

0.0

Max. Range

3.10 0.00 3.70 0.00 0.60 0.00

34.0 240.0 206.0 83.1 94

> 0.8 6.7 2.4

0.8 3.2 1.8

5.9 5.2

105 276 171

10 28 29

0000

34 240 206

-240 -34 206

14

3.00 10.00 7.00 SR87 DISCHARGE TREATED BY J.P. SYSTEM NORTH DISCHARGE

Al Load Not Acid Not All		2	200	Acid I and	Sign	Sulfato	Α	Mano.	ron	Acidity	Alk.	Lab.	Flow	Date
-134	134				۵	398	10.4	2.5	12.1	134	0	3.5		12/04/97
-126	126				S 3	419	10.6	2.5	10.5	126	0	3.5		18/91/11
-130	130				3	407	7.8	1.9	10.1	130	0	3.4		18/00/01
-98	98				۵	345	7.5	1.9	7.9	BR	0	3.5		18/11/80
-102	102	0	0	1	3	330	7.0	1.4	2.4	70Z	0	0.0		/BIOZIOO
-78	78	0	0	Un.	۵	259	5.8	1.3	2.0	18	0	3 0	. 0	/B/C1/10
-72	72	1	0	9	۵	279	4.9	1.2	1.6	12	0	3 0.0	5	18/07/00
-58	58	4	0	8	۵	249	4.9	1.1	1.4	28	0	3.0	12	16/01/40
-46	46	1	0	17	12	174	2.9	0.8	1.0	46	0	3.0	30	18/07/50
-68	68	-	_	12	۵	226	6.1	1.2	3.9	68	0	3 0	30	ISIAI (70
-78	78	2	1	19	3	313	6.4	1.3	2.6	6	0	3 3.0	40	06/81/71
-138	138	_	ے	13	<3	549	12.9	2.9	6.4	138	0	3 1	300	06/67/01
-140	140	1	0	10	۵	387	10.3	2.4	5.0	140	0	3.2	0	OR/BLIAN
-136	136	_	0	13	6	285	11.1	2.2	3.9	136	0	3.1	8	08/13/96
-116	116	-	0	13	<3	348	9.8	2.0	3.3	116	0	3,3	9	0/124/96
-344	344	_	0	58	3	277	7.4	1.7	2.3	344	0	3.3	14	06/26/96
-50	50	2	->	24	3	162	3.4	0.8	1.1	50	0	3.5	40	05/23/96
-66	66				3	224	5.1	1.3	1.5	66	0	3.4		04/16/96
-98	96	_	0	21	3	234	6.2	1.4	2.2	96	0	3.4	18	03/19/96
<u>-</u>	114	-	0	16	3	345	8.9	2.1	3.3	114	0	3.3	12	02/22/96
-112	112	2	1	22	ယ	283	8.9	2.4	3.7	112	0	3.5	16	01/25/96
-118	118	_	0	9	အ	382	10.6	3.2	5.5	118	0	33	6	11/02/95
-15	152	_	0	7	12	339	11.1	2.8	7.4	152	0	3.2	4	10/12/95
-122	122	0	0	4	ယ	421	10.6	2.5	6.4	122	0	3.2	w	09/21/95
-124	124	_	0	7	N	275	9.2	2.2	4.8	124	0	3.1	5	08/30/95
-92	92	_	0	9	w	267	6.3	1.6	2.1	92	0	3.2	8	07/27/95
-70	70	2	4	24	3	265	5.8	1.4	2.1	70	0	3.5	28	05/25/95
-76	76	4	0	14	ယ	248	5.3	1.3	2.2	76	0	3.4	15	03/30/95
-78	78	_	0	14	ω	209	6.2	1.4	2.7	78	0	3.4	15	03/01/95
-124	124	2	_	18	2	397	12.9	2.5	5.0	124	0	3.4	12	12/28/94
mg/L		lb/day	_	lb/day	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	РH	(gpm)	Sampled
Net Alk	Net Acid	Al. Load	Iron Load	Acid Load	Susp.S.	Sulfate	Ą.	Mang.	Iron	Acidity	Alk.	Lab.	Flow	Date
				18						127			15	9111 %C/
		_	0	15	4	310	7.9	1.8	4.5	107.9	0.0	3.4	13	AVERAGE
298	298	2	-	57	10.00	387	10.0	2.4	12.3	298.00	0.00	0.50	39	Range
46	344	2	-	58	12.00	549	12.9	3.2	13.3	344.00	0.00	3.60	40	Max.
34	46	0	0	_	2.00	162	2.9	0.8	1.0	46.00	0.00	3.10		TANALA.

SR88 DISCHARGE TREATED BY J.P. SYSTEM, SOUTH DISCHARGE

-132	132				۵	368	10.3	2.8	13.3	132	0	3.4		12/17/97
Bw	mg/L	lb/day	lb/day	lb/day	mg/L	рH	(gpm)	Sampled						

SR88 DISCHARGE TREATED BY J.P. SYSTEM, SOUTH DISCHARGE

09/17/97 28 2.9	08/20/97 29 3.1	07/15/97 50 3	06/25/9/ 55 3.1	-	66	78	60 78	60 66 66	45 60 66	50 60 66 66	45 50 60 66 66	50 45 50 60 60 66	40 50 45 66 66 67 88	40 45 50 45 66 66	40 45 45 66 66 66	50 45 45 66 66 66	50 45 60 60 60 60 60	50 45 66 67 88	50 45 66 66 67 88	45 45 66 66 67 88	50 45 66 66 67 88	60 60 60 60 60 60 60 60 60 60 60	30 60 60 60 60 60 60 60 60 60 60 60	(gpm) 30 60 40 45 66 66 66	Flow (gpm) 30 60 60 60 66 66 66	60 Flow (gpm) 30 60 60 60 60 66 66 66	Flow (9pm) 30 30 50 45 45 66 60 60 60	49 49 60 60 60 60 45 66 66	78 49 49 60 60 60 80 80 40 40 40 45 80 60 60
0	0	0	0		0	13.4	0 13.4	0 13.4	0 0 13.4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	13.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	13.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 13.4	0 13.4	mg/L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mg/L mg/L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Alk. mg/L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.6 mg/L mg/L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		╎╎╎╎╎╎╎
344.0	282.0	226.0	240.0		188.0	188.0	-	111		++++	++++++++++++++++++++++++++++++++++++																		
70.8	61.5	48.7	51.7	00.0	53.5	0.8	57.9 0.8	45.7 57.9 0.8	74.4 45.7 57.9 0.8	50.7 74.4 74.7 45.7 57.9 0.8	84.0 50.7 74.4 45.7 57.9 0.8	70.0 84.0 50.7 74.4 45.7 57.9 0.8	56.6 70.0 84.0 84.0 50.7 74.4 45.7 57.9 0.8	43.8 56.6 70.0 84.0 84.0 50.7 74.4 45.7 57.9 0.8	50.8 43.8 56.6 70.0 84.0 84.0 50.7 74.4 45.7 57.9 0.8	61.4 50.8 43.8 58.6 70.0 84.0 84.0 50.7 74.4 45.7 74.4 45.7 57.9 0.8	30.4 61.4 50.8 50.8 43.8 56.6 70.0 84.0 84.0 50.7 74.4 45.7 74.4 45.7 57.9 0.8	94.1 30.4 61.4 61.4 50.8 43.8 56.6 70.0 84.0 50.7 74.4 45.7 74.4 45.7 74.5 60.8	90.4 94.1 30.4 61.4 50.8 43.8 56.6 70.0 84.0 50.7 74.4 45.7 74.4 45.7 74.4 65.8	48.9 90.4 90.4 94.1 30.4 61.4 61.4 50.8 43.8 58.6 70.0 84.0 70.0 84.0 50.7 74.4 45.7 74.4 65.8	53.3 46.9 90.4 94.1 94.1 30.4 61.4 50.8 43.8 58.6 70.0 84.0 74.4 45.7 74.4 45.7 57.9 0.8	56.0 53.3 53.3 590.4 90.4 90.4 90.4 90.4 90.4 61.4 61.4 50.8 50.8 50.8 50.7 70.0 84.0 70.0 84.7 74.4 45.7 74.4 45.7 57.9 0.8				╡┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋┋	╡╏╏┩╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒╒		╡╏┋┋
5.4	5.3	4.7	4.9		4.9	4.9	4.8 4.9	4.6 4.8 4.9	5.7 4.6 4.8 0.8	5.4 5.7 4.6 4.8 0.8	5.2 5.4 5.7 4.6 4.8 0.8	5.5 5.2 5.4 5.7 5.7 4.6 0.8	5.8 5.5 5.2 5.4 5.7 4.6 4.8 0.8	4.0 5.8 5.5 5.2 5.4 5.7 4.6 4.8 4.8	4.6 4.0 5.8 5.2 5.2 5.4 4.6 4.8 4.8	4.8 4.6 5.8 5.8 5.2 5.2 5.4 4.6 4.8 4.8	5.2 4.8 4.8 4.6 5.5 5.5 5.2 5.7 4.8 4.8 4.8 4.8 4.8 4.8	6.2 5.2 5.8 4.6 4.8 4.8 5.5 5.5 5.2 5.2 5.4 4.8 6 4.8 6 4.8 6 6 6 6 7 7 7 7 8 7 8 7 8 7 8 7 8 7 8	5.5 5.2 5.2 5.2 5.3 5.8 5.8 5.8 5.8 5.8 5.8 5.8 6.2 5.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6	6.1 5.5 6.2 5.2 5.2 5.8 4.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5	5.5 5.5 5.5 5.6 4.6 4.6 4.6 5.7 4.6 4.8	5.5 5.5 5.5 5.2 5.5 5.2 5.2 5.3 5.4 6.2 5.5 5.2 5.5 5.2 5.5 5.2 5.5 5.5 5.5 5	5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	mg/L 5.1 5.1 5.3 5.5 6.1 6.1 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	Mang. mg/L 5.1 5.3 5.5 6.1 6.1 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	Mang. mg/L 5.1 5.1 5.1 5.2 5.5 5.2 5.2 5.2 5.4 4.6 4.6 4.6 4.6 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	Mang. mg/L 5.1 5.1 5.3 5.5 6.2 6.2 5.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4	5.3 5.0 Mang. Mang. 5.1 5.1 5.1 5.2 5.5 6.2 5.5 5.5 6.2 5.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	6.2 5.3 5.0 5.0 Mang. Ma
10.1	8.2	7.4	7.6		8.3	<.50 8.3	6.3 <.50 8.3	6.3 6.3 <.50	7.6 6.3 6.3 <.50	7.2 7.6 6.3 6.3 <.50	7.8 7.2 7.6 6.3 6.3 <.50	7.8 7.8 7.2 7.6 6.3 6.3 <.50	7.8 7.8 7.8 7.6 7.6 6.3 6.3 6.3	9.0 8.8 7.8 7.8 7.2 7.6 6.3 6.3 <.50	8.2 9.0 8.8 7.8 7.8 7.2 7.6 6.3 6.3 6.3	9.3 8.2 9.0 8.8 7.8 7.8 7.8 7.6 6.3 6.3 6.3	6.9 9.3 8.2 9.0 9.0 8.8 7.8 7.8 7.8 7.6 6.3 6.3 8.3	9.8 6.9 9.3 8.2 9.0 8.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	10.8 9.8 6.9 9.3 8.2 9.0 9.0 8.8 7.8 7.8 7.8 7.8 7.8 7.8	10.3 10.8 9.8 6.9 9.3 8.2 9.0 8.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	10.7 10.3 10.8 9.8 9.8 9.3 9.3 8.2 9.0 8.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	11.9 10.7 10.3 10.8 9.8 6.9 9.3 9.3 8.2 9.0 8.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	8.4 11.9 10.7 10.3 10.8 9.8 6.9 9.3 8.2 9.0 8.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 6.3 6.3	mg/L 8.4 11.9 10.7 10.3 10.8 9.8 6.9 9.3 8.2 9.0 8.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	Al. mg/L 8.4 11.9 10.7 10.3 10.8 9.8 9.3 9.3 8.2 9.0 8.8 7.8 7.8 7.8 7.8 6.3 6.3 6.3 6.3	AI. mg/L mg/L 11.9 10.7 10.8 9.8 6.9 9.0 8.8 7.8 7.2 7.6 6.3 6.3 6.3 6.3	8.5 Al. mg/L 8.4 11.9 10.7 10.3 10.8 9.8 6.9 9.3 8.2 9.0 8.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	5.6 8.5 8.5 Al. mg/L 8.4 11.9 10.7 10.3 10.8 9.8 9.8 9.8 9.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 8.3	11.9 5.6 8.5 8.5 8.6 10.7 10.7 10.3 10.8 9.8 9.8 9.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 8.3
714	615	616	578		527	97 527	557 97 527	462 557 97 527	628 462 557 97	552 628 482 557 97	586 552 628 462 557 97	711 586 552 628 462 557 97	429 711 586 552 628 462 557 97	445 429 711 586 552 628 462 557 97	551 445 429 711 586 552 628 482 557 97	507 551 445 429 711 586 552 628 462 557 97	449 507 551 445 429 711 586 552 628 462 557 97	962 449 507 551 445 429 711 586 552 628 462 557 97	814 962 449 507 551 445 429 711 586 586 552 628 462 557 97	640 814 962 449 507 551 445 429 711 586 586 552 628 462 557 97	532 640 814 962 449 507 551 429 711 586 552 628 482 557 97	558 532 640 814 962 449 507 551 429 711 586 586 582 628 482 557 97	640 558 532 640 814 962 449 507 551 445 429 711 586 586 582 628 462 557	mg/L 640 558 532 640 814 962 449 507 551 445 429 711 586 552 628 462 557 97					
3 &	<3	<3	8		8	8 3	22 6	8 3 22	8 3 22 3 6	8 3 22 3 6 3	8 3 22 3	8 3 22 23	14 6 8 8 8 8 8 8	3 14 6 8 8 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	16 3 3 3 4 14 14 16 6 6 6 6 6 6 6 7 6 8 8 8 8 8 8 8 8 8 8	3 16 3 3 3 3 3 3 3 4 6 6 6 6 6 6 6 6 6 6 6	26 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	26 26 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 26 26 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	14 3 3 16 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10 14 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 6 6 6 6	3 3 10 3 3 10 3 3 10 3 3 3 10 3 3 3 10 3 3 3 10 3 3 3 10 3 3 3 10 3 3 10 3 3 10 3 3 10	mg/L 3 10 14 3 3 4 4 26 3 3 16 6 8 8 6 8 8 6 8	Susp.S. mg/L mg/L 10 114 3 3 3 3 3 3 3 3 3 16 6 8 8 6 8 8 6 6 8 8 6 6 8 8 6 6 8 8 6 6 8 8 6 6 8 8 6 6 8 8 6 6 8 8 6 6 8 8 6 6 8 8 6 6 8 8 6 8 8 6 8 8 6 8 8 6 8 8 6 8 8 6 8 8 6 8 8 6 8 8 6 8	Susp.S. mg/L 10 14 3 3 16 6 8 8 6 8 8	10 Susp.S. mg/L mg/L 3 3 10 10 14 4 4 4 6 6 6 6 6 8 6 6 8 6 6 6 8 6 6 6 6	23.00 10 10 10 10 10 14 3 3 3 4 4 26 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	28.00 23.00 10 10 10 14 3 3 16 6 8 8 8 8
120	97	136	159		149	149	146 2 149	154 146 2 149	122 154 146 2 149	137 122 154 146 2 149	144 137 122 154 146 2 149	153 144 137 122 154 146 2	153 144 137 122 154 146 2	153 144 137 122 154 146 2	153 144 137 122 154 146 2	153 144 137 122 154 146 2	153 144 137 122 154 146 2	153 144 137 122 154 146 2	153 144 137 122 154 146 2	153 144 147 122 154 146 2	153 144 137 122 154 146 2	244 153 144 137 122 154 146 146 2	113 244 244 153 144 137 122 154 146 146 149	153 144 153 144 137 122 154 146 2	Acid Load Ib/day 113 244 144 153 144 137 122 154 146 2 149	151 Acid Load Ib/day 113 244 113 144 137 122 154 146 2 149	131 151 Acid Load Ib/day 113 244 143 153 144 137 122 154 146 149	242 131 151 Acid Load Ib/day 113 244 113 144 153 144 137 122 154 146 149	244 242 131 151 Acid Load Ib/day 113 244 244 153 144 137 122 154 146 2
25	21	29	34		42	42	42	33 42 42	42 42 42	30 40 33 42 42	45 30 40 42 42 42	42 45 40 40 42 42	42 45 40 40 40 42 42	42 45 40 40 40 42	42 45 40 40 33 42 42	42 45 45 40 40 42 42	42 45 45 30 40 40 42 42	42 45 45 40 40 42 42	42 45 46 47 48 48	42 42 43 442 442	42 42 42 42	42 42 43 442 442 442	42 42 45 46 47 47	1b/day 17 40 40 42 42 45 30 40 33 42 42	Iron Load Ib/day 17 40 40 42 45 40 40 30 40 42 42 42 42	Iron Load Ib/day 17 40 42 45 30 30 40 33 42 42 42	31 Iron Load Ib/day 17 40 42 42 45 30 40 33 42 42	45 31 Iron Load Ib/day 17 40 40 42 45 30 40 33 42 42 42	45 45 31 31 Iron Load Ib/day 17 40 42 42 42 42 42 42
	ω	4	5		7	7	7	5 5	5 5 7	7 5 5 4	7 5 5 4 4 4	7 5 5 4 4 5	7 5 5 4 4 5 5	7 5 5 4 4 5	7 5 5 4 4 5 5	7 5 5 4 4 4 5	7 5 5 4 4 4 5	7 5 5 4 4 5	7 5 5 4 4 5	7 5 5 4 4 4 5	7 5 5 4 4 4 5	7 5 5 4 4 4 5	7 5 5 4 4 4 5	1b/day 3 9 9 5 5 5	Al. Load lb/day 3 3 9 9 5 5 5 5 5 5 5 5	Al. Load lb/day 3 9 9 9 1 1 1 1 1 1 1	Al. Load lb/day 3 9 9 5 5 5 5 5 5	Al. Load lb/day 3 3 9 9 5 5 5 5 5 5	9 6 5 5 1b/day 1b/day 9 9 9 9 5 5
344	282	226	240	OLC	188	-11 188	202 -11 188	214 202 -11 188	226 214 202 -11 188	228 226 214 202 -11 188	266 228 226 226 214 202 -11 188	254 266 228 226 226 214 202 -11 188	254 254 266 228 228 226 214 202 -11 188	246 88 254 266 228 226 214 202 -11 188	232 246 88 254 254 226 228 228 226 214 202 -11	268 232 246 88 254 254 226 228 226 214 202 -11	206 268 232 246 88 254 254 266 228 226 214 202 -11	308 206 268 232 246 88 254 254 266 228 228 226 214 202 -11	368 308 206 268 232 246 88 254 254 266 228 226 214 202 -11	286 368 308 206 268 2246 88 232 246 88 254 254 266 228 226 214 202 -11	366 286 368 308 206 268 232 246 88 254 254 266 228 226 214 202 -11	338 366 286 368 308 206 268 232 246 88 254 254 226 226 227 214 202 -11	314 338 366 286 286 368 308 206 268 232 246 88 226 226 228 226 226 227 214 202 -11	mg/L 314 338 338 366 286 368 308 206 268 228 246 88 2246 228 2246 228 2214 202 -11 188	Net Acid mg/L 314 338 366 286 368 206 246 88 226 226 214 202 -11 188	Net Acid mg/L 314 338 366 286 268 2246 88 226 226 214 202 -11 188	Net Acid mg/L 314 338 366 286 286 232 246 88 226 226 214 202 -11 188	379 Net Acid mg/L 314 338 366 286 368 206 268 228 246 88 2246 286 228 226 214 202 -11 188	368 379 379 Net Acid mg/L 314 338 366 286 286 286 206 268 2246 88 2246 232 246 88 2246 228 228 228 228 226 214 202 -11 188
-344	-282	-226	ALS.	-240	-188	-188 -240	-202 11 -188	-214 -202 11 -188	-226 -214 -202 -11 -188	-228 -226 -214 -202 -11 -188	-266 -228 -226 -214 -202 -11 -188	-254 -266 -228 -228 -226 -214 -202 -11 -188	-254 -254 -266 -228 -226 -214 -202 -118	-246 -88 -254 -266 -228 -226 -214 -202 -118	-232 -246 -88 -254 -266 -228 -226 -214 -214 -202 -118	-268 -232 -246 -88 -254 -266 -226 -228 -226 -214 -202 -11	-206 -268 -232 -246 -246 -254 -254 -266 -228 -226 -214 -214 -214 -202 -214	-206 -268 -268 -232 -246 -88 -254 -254 -266 -228 -228 -228 -214 -214 -214 -214 -214	-368 -308 -206 -268 -232 -246 -254 -254 -228 -228 -214 -214 -214 -214 -214	-286 -368 -308 -206 -268 -232 -246 -254 -254 -228 -228 -214 -214 -214 -214 -214 -214	-266 -286 -286 -368 -308 -206 -268 -232 -246 -246 -226 -226 -226 -226 -226 -22	338 366 -286 -286 -308 -308 -206 -268 -246 -246 -246 -254 -254 -268 -276 -2	314 338 366 -286 -286 -268 -268 -268 -232 -246 -254 -254 -268 -26	mg/L 314 314 338 366 -286 -286 -206 -268 -268 -226 -232 -246 -228 -228 -228 -214 -214 -214	Net All mg/L 314 -314 -338 -366 -286 -286 -368 -368 -368 -368 -368 -268 -268 -268 -268 -268 -288 -214 -254 -214 -214 -214	Net All mg/L 314 338 366 -286 -268 -232 -246 -226 -226 -226 -226 -226 -226 -22	Net All mg/L 314 314 338 366 -286 -268 -286 -286 -228 -226 -226 -2	379 Net Alk mg/L 314 -386 -286 -286 -288 -206 -288 -226 -246 -288 -228 -246 -288 -228 -246 -288 -288 -288 -288 -288 -288 -288 -28	Net Alk. mg/L -314 -386 -286 -286 -286 -268 -268 -268 -268 -2

SR 89 DISCHARGE, MANGNUM

SR 91 DISCHARGE UPSTREAM OF FERRIS BRIDGE ALONG RAIL ROAD GRADE.

			23	786	0.5	4.44	90.7	210	11.2	5		02/22/96
			64	723	0.5	3.99	67.6	190	16	5.5		01/25/96
lb/day	_	lb/day	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	먼	(gpm)	Sampled
Iron Load	121	Acid Load	Sulfate Susp.S.	Sulfate	AL.	Mang.	Iron	Acidity	Alk.	Lab.	Flow	Date
								205.0				75% tile
	1		44	755	0.5	4.2	79.2	200	13.6	5.3		AVERAGE
0	1	0	41.00	63	0.0	0.5	23.1	20.0	4.8	0.5	0	Range
0	1	0	64.00	786	0.5	4.4	90.7	210.0	16.0	5.5	0	Max.
0	1	c	23.00	723	0.5	4.0	67.6	190.0	11.2	5.0	0	Min.

1.5	14 58 48 242 4440	280 4340	12/13/95 5.8 50 296 149.0 3.7	0//2//95 12 5.8 48 324 140.0 3.6	15 5.8 52 350	5.8 50 460	d (gpm) pH r	Date Flow Lab. Alk. Acidity Iron Mang.	75% tile 14 344	AVERAGE 14 5.8 49.0 337.0 157.2 4.0	Range 3 0.00 6.00 180.00 61.0 1.5	+	1
<.50	×.50	1 20	<.50	<.50	<.50	<.50	mg/L	≥			0.0	0.0	2.0
1034	1044	40.4	980	1064	1434	1270	mg/L	Sulfate		1138	454	1434	000
3	30	3	8	3	2	4	mg/L	Susp.S.		9	34.00	36.00	4.00
53	47	1		47	63		lb/day	Acid Load	55	52	16	63	144
24	23			20	33		lb/day	Iron Load		25	12	33	40
							lb/day	Al.Load			0	0	•
264	234	240	246	276	298	410	mg/L	Net Acid			176	410	404
-264	-234	24.4	-246	-276	-298	410	mg/L	Net Alk.			176	-234	1

SR94 RAW DISCHARGE, BIG BERTHA

	03/19/97	02/25/97	12/11/96	10/24/96	08/15/96	07/24/96	06/26/96	05/16/96	04/16/96	02/22/96	01/10/96	12/13/95	12/13/95	07/27/95	11/21/94	Sampled (g	Date F
19	29	16	22	15		6	25	17	10					5	15	(gpm)	Flow
5.4	5.3	5.2	5.4	5.3	5.2	5.3	5.2	5.2	5.2	5.2	5.2	5.3	5.3	5.2	5.3	PH	Lab.
22	24	22	24	24	18.8	20	17.4	22	20	18.8	18.6	20	19.2	20	24	mg/L	Alk.
320	324	324	410	336	332	348	100	394	360	392	370	180	354	346	384	mg/L	Acid
154.0	146.0	155.0	145.0	160.0	163.0	159.0	173.0	158.0	146.0	175.0	145.0	51.1	163.0	132.0	225.0	mg/L	Iron
5.4	5.2	5.5	4.9	5.5	5.5	5.7	6.2	5.7	5.4	6.0	5.4	4.9	5.9	4.8	6.8	mg/L	Mang.
1.4	1.3	1.3	1.2	1.3	1.4	1.4	1.6	2.8	1.3	1.5	1.3	5.7	1.3	1.2	24.5	mg/L	₽.
788	950	794	805	908	818	1047	925	926	873	845	872	576	842	849	972	mg/L	Sulfate
۵	<3	6	<3	4	<3	3	3	21	s	40	16	124	4	4	1048	mg/L	Susp.S.
73	113	62	110	61		67	30	81	43					62	69	lb/day	Acid Load
35	51	30	39	29		31	52	32	18					24	41	lb/day	Iron Load
0	0	0	0	0	0	0	0	1	0					0	4	lb/day	Al. Load
298	300	302	386	312	313	328	83	372	340	373	351	160	335	326	360	mg/L	Net Acid
-298	-300	-302	-386	-312	-313	-328	-83	372	-340	-373	-351	-160	-335	-326	-360	mg/L	Net Alk.

Range AVERAGE 75% tile

18

5.40 0.20 5.3

20.9

329.6 374

153.1

3.1

116

77 70 83

34 52 8

44

17.40 100.00 51.1 24.00 410.00 225.0 6.60 310.00 173.9

4.8 6.8 2.0

> 1.2 24.5 23.4

576 1047 471 862

> 3.00 1048.00 1045.00

> > 30

0

386 303

-83 303 SR94.2 DISCHARGE UPWELLING NEXT TO SR 94

21

Max.

29

5.20

2000	-	1	+	+	+	-	+	07/27/95 10	-	03/30/95 12	-	+	1	Sampled (gpm	Date Flow
30	8	2	2	0		-	0	0	-	2	5	7	1	Ě	WO
5.6	5.2	4.3	4.2	4.8	3.4	3.5	3.5	6.1	5.9	4.2	4.8	4.5	3.5	PH	Lab.
9.2	7.8	5	5.4	7.4	0	0	0	26	14	5.8	9.2	7.8	0	mg/L	Alk.
3.8	8.6	58	54	13.2	74	92	86	15	5.6	52	28	32	100	mg/L	Acid
0.9	0.4	17.8	15.3	6.3	17.5	24.6	25.3	8.6	1.5	13.0	5.2	17.0	12.0	mg/L	Iron
0.2	0.2	6.9	5.7	0.4	10.2	11.0	10.1	1.4	0.2	5.4	1.8	5.3	1.6	mg/L	Mang.
<.50	<.50	<.50	<.50	1.1	<.50	<.50	<.50	<.50	0.6	<.50	<.50	0.6	<.50	mg/L	AI.
34	29	210	227	31	338	275	262	45	36	207	61	228	150	mg/L	Sulfate
۵	4	<3	<3	36	3	24	8	14	9	3	3	4	2	mg/L	Susp.S.
_	2	8	8	5	8	12	10	2		8	15	7		lb/day	Acid Load
0	0	3	2	2	2	3	ယ	1		N	3	3		lb/day	Iron Load
				0								0		lb/day	Al. Load
Ġ	_	53	49	6	74	92	86	-11	b	46	19	24	100	mg/L	Net Acid
55	ند	-53	49	6	-74	-92	-86	11	8	46	-19	-24	-100	mg/L	Net Alk

Range AVERAGE 75% tile

21 8 36 45

4.5

7.0

70

11.8

Max.

3.40 6.10 2.70

0.00 3.80 26.00 100.00 26.00 96.20

0.4 25.3 24.9

0.2 11.0 10.9

0.6 1.1 0.8

29 338 309 152

2.00 36.00 34.00

7 14 15

8

N W W O

0

111

111

00

-100

SR96 DISCHARGE SOUTHSIDE OF HILLIARDS TRIB. FROM BIG BERTHA

Range AVERAGE Date Sampled 03/01/95 06/06/95 12/22/94 75% tile Max. Min. (gpm) Flow 170 100 170 123 135 100 pH mg/L 4.4 7 4.6 4.5 4.5 4.6 4.4 6.8 7.6 6.8 Alk. Acidity Iron Mang. 9.0 9 mg/L 12.4 16.6 11.6 12.4 20.3 24.0 18 24 mg/L 1.05 1.45 0.37 10. 1.5 1.59 mg/L 1.73 1.61 1.6 1.7 1.6 AL. 0.68 mg/L 0.93 0.75 0.3 0.9 Sulfate Susp.S. Acid Load mg/L mg/L lb/day mg/L 242 189 187 242 55 187 10.00 8.00 2.00 0 4 2 29 34 31 26 34 15 Iron Load Ib/day ON N N N 0 Al.load lb/day 0 Net Acid mg/L 200 30 15 0 C Net Alk mg/L 3 3 6 6 10 75 6

SR 98 DISCHARGE ON EAST SIDE OF HIGGINS TRIB. ON CISCO PROPERTY

SR100 FIRST DISCHARGE EAST OF HIGGINS

07/27/95 2	05/25/95 30	03/01/95 9	12/22/94 21	Sampled (gpm	Date Flow	75% tile 23	AVERAGE 16	Range 28	Max. 30	Min. 2
3	0 3.1			\vdash	\vdash	3	6 3.0		0 3.1	
-		ယ	2.9	PH n	Lab. /			0.2		2.9
0	0	0	0	mg/L	Alk.		0.0	0.0	0.0	0.0
124	102	122	152	mg/L	Acidity	131.0	125	50.0	152.0	102.0
5.28	3.37	4.57	8.57	mg/L	Iron		5.4	5.2	8.6	3.4
0.34	0.2	0.23	0.24	mg/L	Mang.		0.3	0.1	0.3	0.2
6.32	5.28	5.3	7.3	mg/L	AL.		6.1	2.0	7.3	5.3
196	161	124	135	mg/L	Sulfate		154	72	196	124
3	3	အ	2	mg/L	Susp.S.		3	1.00	3.00	2.00
ယ	37	13	38	lb/day	Sulfate Susp.S. Acid Load Iron Load	37	23	35	38	ω
0	۰	0	N	lb/day	Iron Load			2	2	0
0	2	_	2	lb/day	Al.load		1	2	2	0
124	102	122	152	mg/L	Net Acid		125	50	152	102
-124	-102	-122	-152	mg/L	Net Alk		-125	50	-102	-152

12/11/97	10/08/97	08/20/97	07/15/97	06/25/87	05/21/97	04/16/97	78/81/50	76/61/70	12/11/96	10/23/96	09/18/96	08/13/96	07/24/96	06/26/86	05/16/96	04/16/96	03/19/96	02/22/96	01/25/96	12/13/95	11/02/95	10/18/85	08/21/95	07/27/85	05/25/95	04/11/95	03/23/85	03/01/95	12/22/94	11-	100
45	24	32	24	26	26	58	36	3	28	30	60	1	12	12	18		12	12	10		12	6	6	40	26	9	1	8	18	(gpm)	MOL
5.9	5.8	5.9	5.9	5.9	6	6	5.9	5.9	6	5.9	5.7	5	5.7	4.9	5.7	3.7	3.6	3.7	3.6	6	3.2	3.5	3.6	3.5	3.8	3.4	3.8	3.7	5.7	PН	Lab.
44	40	38	42	40	40	42	42	44	44	40	38	9	17	10	28	0	0	0	0	54	0	0	0	0	0	0	0	0	26	mg/L	AIN.
144	180	160	126	122	134	120	122	146	150	158	170	172	182	13.4	178	178	224	162	146	180	162	204	154	180	150	160	162	160	194	mg/L	ACIO
79.1	80.5	78.4	67.6	68.1	62.6	69.9	67.1	70.0	78.9	84.2	82.8	87.2	90.4	87.2	86.4	69.5	83.2	104.0	56.2	106.0	51.1	80.4	79.8	75.3	78.2	59.1	83.3	72.7	106.0	mg/L	Iron
1.8	2.0	2.1	1.7	1.7	1.6	1.7	1.7	1.6	1.9	2.0	1.9	2.3	2.3	2.4	2.1	2.0	2.3	2.0	2.0	2.4	2.1	2.5	2.5	2.1	2.2	2.4	2.4	2.2	2.6	mg/L	mang.
<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	mg/L	AI.
523	569	523	523	484	509	484	618	495	644	592	657	645	681	591	519	494	563	423	522	750	419	632	558	500	512	536	533	596	630	mg/L	Sulfate
4	۵	۵	4	4	12	4	3	۵	10	<3	16	14	10	w	ဒ	3	10	118	36	12	3	80	44	54	50	28	10	3	30	mg/L	Susp.S.
78	52	62	36	38	42	84	53		50	57	123	23	26	2	39		32	23	18		23	15	11	87	47	17	21	17	42	lb/day	Acid Load
43	23	30	20	21	20	49	29		27	30	60	12	13	14	19		12	15	7		7	6	6	36	24	6	11	8	23	lb/day	Iron Load
																														lb/day	Al. Load
100	140	122	84	82	94	78	80	102	106	118	132	163	165	ယ	150	178	224	162	146	126	162	204	154	180	150	160	162	160	168	mg/L	Net Acid
100	-140	-122	-84	-82	-94	-78	80	-102	-106	-118	-132	-163	-165	۵	-150	-178	-224	-162	-146	-126	-162	-204	-154	-180	-150	-160	-162	-160	-168	mg/L	Net Alk.

				52						178			67	15% tile
			21	41	22	558		2.1	78.5	156.4	21.3	4.8	23	AVERAGE
	221	0	54	121	115.00	331	0.0	1.0	54.9	210.60	54.00	2.80	04	Kange
	224	0	60	123	118.00	750	0.0	2.6	106.0	224.00	54.00	0.00	00	max.
,	3	0	6	2	3.00	419	0.0	1.6	51.1	13.40	0.00	3.20	6	MID.

SR101A DISCHARGE SOUTHSIDE OF HIGGINS ROAD, EAST OF HIGGINS CORNERS

06/25/97	18/17/50	18/01/40	04/16/07	03/10/07	02/19/97	10/23/96	09/18/96	08/13/96	07/24/96	06/26/96	05/16/96	04/16/96	03/19/96	02/22/96	01/25/96	12/13/95	11/02/95	10/18/95	09/21/95	07/27/95	03/01/95	12/22/94	Sampled (gpm)	Date	all W.C.	AVERAGE	Kange	Max.	DATE:
20		27	3 6	3 6	27	21	30	21	24	23	24	15	21	15	20	15	15	18	25		30		(gpm)	Flow	4.7	1.			10
4.8	4.9	4.8	4.0	4.0	40	40	4.7	4.8	4.9	4.9	4.8	4.7	4.9	4.8	4.8	4.8	5	4.7	4.8	4.8	5.1	4.8	PH	Lab.		4.8	0.40	5.10	4.70
12.8	11.8	12.6	13.2	4.0.4	10.0	128	12.6	10.8	12.2	12.4	12.4	11.4	11.6	11.8	11.4	11.4	16	10.4	12.6	11.8	15.2	13.4	mg/L	Alk.		12.5	5.60	16.00	10.40
182	200	180	701	404	200	108	204	200	186	200	210	240	228	240	220	216	228	232	186	192	250	246	mg/L	Acid	87.7	210.2	70.00	250.00	00.00
73.8	71.9	76.4	/5.0	14.	700.1	96.4	84.0	77.1	76.7	82.1	80.4	82.3	88.9	92.6	89.9	86.2	106.0	91.9	90.9	81.1	121.0	115.0	mg/L	Iron		86.5	49.1	121.0	_
2.3	2.3	2.4	2.4	2.3	2.0	3 1	2.7	2.5	2.4	2.6	2.5	2.6	2.7	2.9	2.8	2.6	3.2	2.7	2.7	2.5	3.6	3.3	mg/L	Mang.		2.7	1.3	3.6	2.3
1.9	1.9	2.0	2.0	2.0	6.2	3 !!	2.4	2.1	2.0	2.3	2.4	2.5	2.8	3.0	3.0	2.6	1.6	2.8	2.8	2.4	2.2	5.0	mg/L	AI.	Ī	2,5	3.4	5.0	1.6
515	525	520	584	541	245	000	627	474	542	486	457	468	492	582	565	535	675	539	519	500	740	552	mg/L	Sulfate		545	283	740	457
۵	۵	6	8	۵	3		۵	۵	۵	ယ	ယ	ယ	4	3	3	6	10	22	3	ω	w	2	mg/L	Susp.S.		5	20.00	22.00	2.00
44		48	48	61	50	14	74	50	54	55	61	43	58	43	53	39	41	50	56		90		lb/day	Acid Load	57	54	51	90	39
18		20	20	22	22	20	30 0	19	22	23	23	15	22	17	22	16	19	20	27		44		lb/day	Iron Load		22	29	44	15
0		_	_	1	_			4	1	1	_	0	-	_	4	0	0	-	_		4		lb/day	Al. Load		-	4	-	0
180	188	167	169	191	184	Tel.	404	189	174	188	198	229	216	228	209	205	212	222	173	180	235	233	mg/L	Net Acid			67	235	167
180	-188	-167	-169	-191	-184	-Ter-	-103	180	-174	-188	-198	-229	-216	-228	-209	-205	-212	-222	-173	-180	-235	-233	mg/L	Net Alk			67	-167	-235

SR102A DISCHARGE SOUTHSIDE OF HIGGINS ROAD 100 YARDS WEST OF PISOR ROAD

RALZ/LO	18/81/11	18/90/01	10/09/07	00/00/07	06/19/97	05/21/97	04/09/97	03/19/97	12/11/96	10/23/96	09/18/96	08/13/96	07/24/96	06/26/96	05/16/96	04/16/96	03/13/86	08/17/70	CA/C1/71	C6/70/11	10/10/95	C6/L7/60	98/17/10	05/25/85	03/30/85	02/23/85	#6/17/71	PA/17/01	AND TO LEG	Date	
18	7.1	ō	3	2	12	12	18	24	27	18	12	10		18	24	12	15	17	8			9	10	18	7.4	11	10	40	/IIIdal I		
4.7	4.6	4.8	0.		46	4.7	4.7	4.6	4.7	4.6	4.5	4.3	4.7	4.4	4.5	4.6	4.5	4.5	4.7	4.8	4.8	5	4.7	4.7	4.7	4.7	4.2	4.3	200	Lab.	
7.6	8.8	9	0.4	0.0	7 .	7.4	7.6	7.6	10.2	7.8	6.2	4.4	7.4	4.8	6.8	6.6	6.4	6	7.4	8.6	8.2	9.6	7.8	8	9.2	7.8	5.8	5.6	mg/∟	Alk.	
12	17.8	30	07	10.4	183	16.4	11.2	17.6	12.6	22	24	22	18.2	15	36	24	40	15.2	26	24	28	24	18.8	17	34	19	38	22	mg/L	Acid	
-5:	1.8	2.8	3.3	1.2	3	10	0.8	0.7	1.5	1.4	1.6	2.2	1.8	1.3	0.8	1.0	1.0	1.8	2.4	3.9	4.6	4.6	2.3	1.5	1.8	2.4	4.0	4.7	mg/L	Iron	
1	1.7	1.8	1.9	=		4		0.9	1.0	1.4	1.4	1.8	1.6	1.5	1.2	1.3	1.3	1.4	1.9	2.0	2.2	2.3	1.6	1.4	1.6	1.6	1.9	2.5	mg/L	Mang.	
<.50	<.50	<.50	<.50	VC.>	2.00	C 80	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	3.1	0.7	mg/L	AI.	
107	149	152	161	BOL	112	143	113	100	104	112	130	140	120	91	109	125	120	118	156	127	169	133	133	113	130	145	135	159	mg/L	Sulfate	
۵	۵	۵	3	3			2	۵	18	۵	۵	۵	۵	ω	w	ယ	w	3	8	3	8	S	ယ	w	ω	w	88	3	mg/L	Susp.S.	
	ယ	4	-	2	7	9 6	3	. מט	4	י אני	ω (2		<u>ن</u>	10	3	7	2	3	3	2	3	2	4	6	မ	7		lb/day	Acid Load	
	0	0	0	0	0			0	0			0			0	0	0	0	0	0	0	0	0	0	0	0	-		lb/day	Iron Load	
																											4		lb/day	Al. Load	
	9	21	12	10	9	4		40	٠ <u>-</u>	1 0	0		1 2	40	20	17	34	9	19	15	20	14	11	9	25	11	32	16	mg/L	Net Acid	
	0 !	-21	-12	-10	-9	4	-10	100	٠-۱۵	-10	-10		-10	87-	30	47	34	-0	-19	-15	-20	-14	-11	20 00	36	-41	32	-16	mg/L	Net Alk.	

Range AVERAGE 75% tile

0.90 5.10 4.20

7.4

11.20 40.00 28.80 22.2 25

0.7 4.7 2.1

0.9 2.5 1.6

1.9

169 127

8

3.00 88.00 85.00

9 10

0

34 2

2 3 31

91

SR109 DISCHARGE 1/4 MILE NORTH OF SR114

18 14 21 27

Max. Min.

4.40 10.20 5.80

3.7 1.0	40 4.0 0.0	10 4.8	40	B 1.0	10 46 58	12 47 74	04/09/97 18 4.7 7.6	24 4.6 7.6	27 4.7 10.2	-	12 4.5	10 4.3	4.7 7.4	18 4.4 4.8	24 4.5	4.6	4.5	4.5	8 4./ /.4	4.6	4.8		4.7	18 4.7	14	11 4.7	16 4.2 5	4.3	Tilling indirection	200
1.5	-	+	+	F	+	+	11.2 0.8	17.6 0.7	12.6 1.5	22 1.4	24 1.6	22 2.2	18.2 1.8	15 1.3	36 0.8	24 1.0	40 1.0	-	+	+	-	-	-	-	34 1.8	19 2.4	38 4.0	-	mg/L mg/L	
1.1	1.7	1.8	1.9	153		1	1.1	0.9	1.0	1.4	1.4	1.8	1.6	1.5	1.2	1.3	1.3	1.4	1.9	2.0	2.2	2.3	1.6	1.4	1.6	1.6	1.9	-	\vdash	
<.50	<.50	<.50	<.50	<.50	1.00	1.00	< 50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	3.1	0.7	mg/L	
107	149	152	161	108	711	-	113	200	104	112	130	140	120	91	109	125	120	118	156	127	169	133	133	113	130	145	135	159	mg/L	
۵	۵	۵	۵	۵	4			۵	18	۵	۵	۵	۵	ω	ယ	သ	ဒ	3	8	3	8	3	3	3	3	w	88	3	mg/L	
သ	3	4	1	2	2		3	. ת	4	Ch	ယ	ယ		ယ	10	3	7	2	3	3	2	3	2	4	6	ယ	7		lb/day	
0	0	0	0	0	0	c			0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	1		lb/day	
																											_		lb/day	
4	9	21	12	10	9	4		40	v 1	14	18	18	11	10	29	17	34	9	19	15	20	14	1	9 5	25	11	32	16	mg/L	
٨	-9	-21	-12	-10	-9	4	-10	4	١ ا	1 6	-18	-18	4 6	-10	-29	-17	34	-69	-19	-15	-20	-14	-11	9	36	-11	33	-16	ma/L	

Range AVERAGE 75% tile

14

0.90 5.10 4.20

7.4

11.20 40.00 28.80 22.2 25

0.7 4.7 2.1

0.9 2.5 1.6

0.7 2.4 1.9

91 169 127

3.00 88.00 85.00

9 10

0

31 2 34

34 2

8

SR109 DISCHARGE 1/4 MILE NORTH OF SR114

18

Max. Min.

4.40 10.20 5.80

21 27

Range AVERAGE 03/30/95 10/18/95 11/02/95 02/23/95 10/27/94 Sampled **75% tile** Date Max. Min. (gpm) Flow 4 ω 5 말 Lab. 4.9 5.1 5.5 5.9 4.7 5.2 5.9 1.2 4.7 mg/L Alk. Acidity Iron 12.0 9.4 8.8 9.8 10 = 12 7.6 4.4 7.6 mg/L 28.0 10.2 17.8 10.2 16.2 17.8 17.4 14 28 14 17 mg/L 0.58 0.78 0.54 0.45 0.3 0.3 0.5 0.8 0.5 0.3 Mang. mg/L 3.93 2.18 2.39 2.31 1.36 1.06 2.2 2.9 3.9 mg/L 0.52 0.5 0.6 0.6 0,5 1.2 AL. 0.7 0.7 1.2 0.5 Sulfate Susp.S. mg/L 182 123 205 193 120 205 85 21.00 mg/L 24.00 3.00 24 12 ယ ယ ယ 4 œ . Acid Load Ib/day 0 Iron Load lb/day 0 0 0 0 0 0 0 0 Al.load lb/day 0 0 0 0 0 0 0 0 0 Net Acid mg/L 'n 20 22 20 9 w 2 Net Alk mg/L -20 22 -20 6 4 ట 2

SR 110 FIRST DISCHARGE NORTHWEST OF SR 114 AREA

03/30/95 03/13/96 02/21/96 09/21/95 05/25/95 02/23/95 10/27/94 11/02/95 Sampled 12/13/95 10/18/95 Date (gpm) Flow 15 12 12 12 18 6 15 12 12 18 Lab. 4.6 4.5 4.7 4.6 4.3 4.7 5.5 5.5 4.3 5.9 암 G mg/L Alk. 12.6 10.2 10.6 5.8 6.2 5.6 6.6 7.4 0 æ Acidity 12.8 16.4 19.4 16.4 18.4 17.6 38 22 24 20 22 2.37 3.06 5.71 6.48 2.54 2.02 4.38 4.96 4.94 12.2 Iron 1.8 Mang. mg/L 2.22 2.16 2.32 2.46 2.42 2.65 2.66 2.87 2.41 2.54 2.48 2.2 0.73 0.5 0.5 0.5 0.5 AL. 0.5 0.5 0.5 0.5 Sulfate mg/L 170 168 192 167 167 126 128 142 158 181 Susp.S. mg/L 12 58 w w w 4 4 6 ω 4 w Acid Load lb/day 9 N 2 N w w 5 w 4 Iron Load lb/day 0 0 lb/day Al.load 0 0 0 0 0 0 0 0 0 0 **Net Acid** mg/L 32 6 32 10 3 4 10 13 3 Net Alk mg/L -16 -10 -13 -13 -14 5 -13 -32 -7 -7

Range AVERAGE

17

4.8

22.5

5 2 6

1.6

7.0

38.0 25.2

20.1 18.3

0.7

2.9

192

9

0

26

26 -7 32

00

14

-14

126

3.00

22

5.9

2.4

0.5

159

9

66

58.00 55.00

Max.

5.9

12.6

5.6

1.8

SR 110A ASSOCIATED WITH SR 110

75% tile

CRIDEIEN	CG/CZ/Z0	08/20/20	Sampled	Date	15% tile	AVENAGE	VEDVCE	Dance.	May	
a	0	7	(gpm)	Flow	10	a	3	1	3	
4.1	4.0	4.0	PH	Lab.		4.0		3.	1 3.0	
8.2	3	0	mg/L	Alk.		1.1	1.1	3 6	3	
17.4	73	16.8	1_	Acidity	17.1	10	4.4	11.4	13.0	1
0.3	0.49	7.49	mg/L	Iron		2.8	1.7	3 .0	10.0	0
1.2	1.45	1.36		Mang.		1.3	0.3	7.5	1.7	
0.5	0.5	0.83	mg/L	AL.		0.6	0.3	0.8	0.5	
106	103	99	1	Sulfate		103	1	106	RR	3
ω	ω	26	mg/L	Susp.S.		11	23.00	26.00	3.00	-
N	_	2	lb/day	Susp.S. Acid Load	2	2	_	2	_	
0	0	۲	lb/day	Iron Load		0	_	_	0	
0	0	0	lb/day	Al.load		0	0	0	0	
9	6	9	mg/L	Net Acid		8	3	9	6	
-9	9	-9	mg/L	Net All		۵	3	8	-9	

SR 110B ASSOCIATED WITH SR 110

Max. Range AVERAGE 05/25/95 07/27/95 04/11/95 02/23/95 02/14/95 75% tile 12/21/94 Sampled (gpm) 10/19/94 Date Min. Flow 56 60 60 58 60 53 0.50 6.00 5.9 5.8 5.8 5.8 5.5 Lab. 5.50 5.8 6 모 24.60 11.40 mg/L 36.00 11.4 Alk. 19.9 14.8 36 13.2 14 24.00 30.00 mg/L Acid 40.6 28 30 46 52 54 51 mg/L 20.1 11.6 12.3 10.6 30.7 19.1 17.6 16.5 ron 16.9 30.7 10.6 Mang. mg/L 1.8 1.5 1.6 1.6 1.0 1.7 2.2 2.2 1.2 1.6 1.0 mg/L 0.0 0.0 0.0 ₽. Sulfate Susp.S. Acid Load Iron Load mg/L 207 176 184 234 174 158 186 158 234 76 mg/L 3.00 20.00 17.00 20 6 w ယ 6 w lb/day 1 1 1 3 3 3 3 35 27 28 lb/day 22 4 8 8 3 12 22 Al. Load lb/day 0 0 0 Net Acid mg/L 19 10 26 26 14 4 32 9 Net Alk. mg/L -14 -10 -10 -19 6 32 6 4

SR114B DISCHARGE TREATED BY HEDIN / C.D.S. SYSTEM , EAST

50 43 5
70
26
3
13.6 34 12.0
56 60 42.4
00 10 30.7
76
mg/L mg/L ma/L
Alk. Acid Iron
30
60
45.6 54.3 37.7
42.40 42.00 38./
3 00
56.00 76.00 50.7
13.60 34.00 12.0

SR114D DISCHARGE TREATED BY HEDIN / C.D.S. SYSTEM WEST

43	43	88	14	<3	176	<.50	0.9	14.3	د	40	0.1	Can	01141100
18	-18	1	2	۵	207	<.50	1.1	10.4	44	100	0.4	305	01/21/98
31	-31	17	14	۵	188	<.50		10.0	2	3 8	8 3	A	08/19/97
23	-23	54	98	۵	701		3	2 2	100	46	6.1	78	07/15/97
4	4	48	112	٤	100	100	10	17.2	19	42	6	260	06/19/97
20	-20	2 2	3 -	3	173	< 50	0.9	17.0	38	42	6.1	461	05/20/97
77	22-	73	114	10	172	<.50	1.0	14.1	22	42	6	430	04/09/97
3 0	3 4	80	120	۵	143	<.50	0.7	10.4	15.6	38	6.1	638	03/19/97
	D 00	63	144	6	179	<.50	1.0	15.9	36	44	6.1	332	/8/RL/70
36	36	66	55	8	148	<.50	0.9	13.9	11.6	48	6.1	382	98/11/71
4 0	,	40	125	4	158	<.50	1.0	16.7	52	46	6.1	200	08/77/01
3 5	2)	13	29	۵	217	<.50	1.2	21.0	46	48	6	20	06/01/60
30	-39	8	-	14	192	<.50	1.2	21.1	3.2	42	0.3	50	00/10/00
31	31	19	17	3	192	<.50	1.1	19.3	17.2	40	0.1	304	08/43/00
		46	27	3	149	<.50	1.2	19.3	11.4	40	0.1	200	07/24/06
		122	381	з	146	<.50	0.9	14.1	44	38	5.6	171	00/10/90
		77	160	w	210	<.50	1.2	18.4	40	44	0.0	700	05/46/00
		129	464	ω	156	<.50	1.1	18.3	00	30	7.0	333	04/16/06
2	-2	68	119	3	230	<.50	1.3	24.1	42	44	8.0	200	03/13/06
88	Ь	33	91	ω	196	<.50	1.0	14.7	40	46	0.1	225	03/34/08
28	-28	0	0	ω	166	<.50	0.4	0.3	5	07	0.4	480	01/25/08
28	-28	0	0	u	136	\.SU	0.0	0.0		200	0.0	ח	11/02/05
29	-29	14	15	8	183	<.50	-	2 .4	0.0	200	6.2	ω :	10/11/95
28	-28	105	71	w	157	<.50	:	17.2	10.0	40	64	66	07/27/95
28	-28	68	29	77	10/	1.00	i	17.0	44 0	40	6.1	504	05/25/95
2	-22	114	120	3	4/4	1.00	3 4	18.8	8	36	6.3	302	04/11/95
24	-24	60	89		170	1.00	à i	180	20	42	6.1	500	03/23/95
46	46				400	7 60	3	213	24	48	6.1	236	02/23/95
				3	188	< 50	1.0	13.6	0	46	6		12/22/94

24.1 1.3 0.0 136 2.00 24.1 1.3 0.0 230 22.00 23.8 0.9 0.0 94 20.00 16.1 1.0 177 6 Iron Mang. Al. Sulfate Susp.S. Ac	mg/L	mg/L	lb/day	lb/day	lb/day	mg/L	mg/L	11811	1/Riii	1.K.	B	1.0	-		
721 6.40 62.00 66.00 24.1 1.3 0.0 136 2.00 0 0 0 46 718 0.60 34.00 66.00 23.8 0.9 0.0 94 20.00 464 129 0 6 278 6.1 43.0 24.0 16.1 1.0 177 6 94 55 9 421 40 40 40 177 6 94 55 9 120 1	WEL AIN.	MOL WOLL	Tong.					mall	mall	\neg		ma/	머		Sampled
721 6.40 62.00 66.00 24.1 1.3 0.0 136 2.00 718 0.60 34.00 66.00 23.8 0.9 0.0 23.0 22.00 278 6.1 43.0 24.0 16.1 1.0 94 20.00 421 40 40 16.1 1.0 177 6	Nice All	Not Acid	Al load	Iron Load		Susp.S.	Sulfate	<u>A</u>	Mang.		Acid	Alk.	Lab.		Date
721 6.40 62.00 66.00 24.1 1.3 0.0 136 2.00 718 0.60 34.00 66.00 23.8 0.9 0.0 23.0 22.00 278 6.1 43.0 24.0 16.1 1.0 177 6 421 40 40 40 177 6															7
721 6.40 62.00 66.00 24.1 1.3 0.0 230 22.00 718 0.60 34.00 66.00 23.8 0.9 0.0 94 20.00 278 6.1 43.0 24.0 16.1 1.0 177 6 421 40 40															
721 6.40 62.00 66.00 24.1 1.3 0.0 230 22.00 718 0.60 34.00 66.00 23.8 0.9 0.0 94 20.00 278 6.1 43.0 24.0 16.1 1.0 177 6					120						40			1.76	20 20 1110
721 6.40 62.00 66.00 24.1 1.3 0.0 230 22.00 718 0.60 34.00 66.00 23.8 0.9 0.0 94 20.00 278 6.1 43.0 24.0 16.1 1.0 177 6				000		1								434	750/ tile
721 6.40 62.00 66.00 24.1 1.3 0.0 230 22.00 718 0.60 34.00 66.00 23.8 0.9 0.0 94 20.00 278 6.1 43.0 24.0 45.4 45.0 94 20.00				22	94	8	177		1.0	10.1	24.0	40.0	0.	1	10.01
721 6.40 62.00 66.00 24.1 1.3 0.0 136 2.00 718 0.60 34.00 66.00 23.8 0.9 0.0 94 20.00	20	70		100	.01	1				40.4	340	430	R	278	VERAGE
721 6.40 62.00 66.00 24.1 1.3 0.0 230 22.00 746 0.60 34.00 66.00 25.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20	7	•	120	484	20.00	94	0.0	8.0	23.0	00.00	09.00	0.00		9.0
721 6.40 62.00 66.00 24.1 1.3 0.0 230 22.00	40	c		1000	1				3	22.0	80 00	34 00	080	718	Range
721 6 40 62 00 66 00 244 0.0 136 2.00	40	9	>	120	464	22.00	230	0.0	1.3	24.1	00.00	04.00	0.40		
20.00 20.00 0.3 0.4 0.0 136 2.00	b	100	•							2	00 00	63 63	8 40	731	Max
	0	40	0	0	0	2.00	136	0.0	0.4	0.3	0.00	20.00	0.00		

SR115 DISCHARGE DEEP MINE BORE HOLE TREATED BY CONSERVATION DISTRICT SYSTEM

SR 116 AT MINE OPENING ON STONE PROPERTY

05/16/96	04/16/96	03/13/96	02/21/96	11/01/95	10/11/95	09/14/95	07/27/95	05/25/95	02/23/95	12/21/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
18	24	24	21	15	15	12	15	24	21	26	(gpm)	Flow	24	20	14	26	12
5.8	5.7	4.9	5.8	5.7	5.7	5.7	5.6	6.1	5.8	5.3	뫈	Lab.		5.6	1.2	6.1	4.9
13.6	18.4	7.4	19.2	16.4	16.6	19.2	15.6	22	16.2	13.6	mg/L	Alk.		16.2	14.6	22.0	7.4
22	12.2	50	0	28	28	24	15.2	0.8	8	24	mg/L	Acidity	26.0	19	50.0	50.0	0.0
11.7	0.49	9.07	0.7	4.42	4.06	2.9	0.71	1.06	0.83	2.34	mg/L	Iron		3.5	11.2	11.7	0.5
0.5	0.2	0.53	0.31	0.53	0.49	0.39	0.21	0.18	0.27	0.44	mg/L	Mang.		0.4	0.4	0.5	0.2
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.21	mg/L	AL.		0.5	0.3	0.5	0.2
152	97	182	115	120	111	95	81	72	86	102	mg/L	Sulfate		111	110	182	72
3	3	3	3	3	10	8	3	3	3	2	mg/L	Susp.S.		4	8.00	10.00	2.00
5	4	14	0	5	5	3	3	0	2	8	lb/day	Acid Load	5	4	14	14	0
3	0	3	. 0	1	1	0	0	0	0	_	lb/day	Iron Load		_	N	3	0
0	0	0	0	0	0	0	0	0	0	0	lb/day	Al.load		0	0	0	0
8	-6	43	-19	12	11	5	0	-21	-8	10	mg/L	Net Acid		3	64	43	-21
-8	6	-43	19	-12	-11	-5	0	21	8	-10	mg/L	Net Alk		۵.	64	21	-43

SR 116A DISCHARGE LOCATED ABOVE BOG PONDS STONE PROPERTY

05/16/96	04/16/96	03/13/96	02/21/96	11/01/95	10/11/95	09/14/95	07/27/95	05/25/95	02/23/95	12/22/94	10/19/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
24	12	18	15	12	19	15	15	24	19			(mdB)	Flow	19	17	12	24	12
5.8	5.6	6	5.7	5.7	5.7	4.5	6	6.1	5.7	6	5	Hq	Lab.		5.7	1.6	6.1	4.5
20	8.6	20	10	11.6	9.6	7.6	15.4	17.2	10.4	32	9	mg/L	Alk.		14.4	24.4	32.0	7.6
22	32	30	26	46	44	44	32	34	36	36	38	mg/L	Acidity	39.5	35	24.0	46.0	22.0
0.37	10.1	0.5	10.6	14.7	15	13.4	14.4	17	13.1	29.9	12.5	1/gm	Iron		12.6	29.5	29.9	0.4
0.1	0.52	0.17	0.59	0.66	0.73	0.83	0.61	0.57	0.67	0.63	0.71	mg/L	Mang.		0.6	0.7	0.8	0.1
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.14	0.5	mg/L	AL.		0.5	0.4	0.5	0.1
63	206	82	178	225	221	189	199	227	197	221	195	mg/L	Sulfate		184	164	227	63
3	3	3	3	3	10	6	4	3	4	10	3	mg/L	Susp.S.		5	7.00	10.00	3.00
6	5	6	5	7	10	8	6	10	8			lb/day	Sulfate Susp.S. Acid Load Iron Load	8	7	5	10	5
0	1	0	2	2	3	2	3	5	3			lb/day	Iron Load		2	5	5	0
0	0	0	0	0	0	0	0	0	0			lb/day	Al.load		0	0	0	0
2	22	10	16	34	34	36	17	17	26	4	29	mg/L	Net Acid		21	34	36	2
-2	-22	-10	-16	-34	-34	-36	-17	-17	-26	4	-29	mg/L	Net Alk		-21	34	-2	-36

Range AVERAGE 10/11/95 09/27/95 08/29/95 03/30/95 03/01/95 05/16/96 03/13/96 03/16/95 Sampled 75% tile Date Max. Min. (gpm) Flow 9 6 9 Lab. 3.9 4.5 4.2 4.5 0.8 4.7 3.9 4.6 4.2 4.6 4.7 4.4 모 mg/L Alk. Acidity Iron 5.4 6.4 9.0 9.0 4.8 0.0 7.8 9 9 8 0 mg/L 54.0 36.5 39.0 15.0 22 28 3 54 38 36 22 24 6 mg/L 6.54 2.83 0.3 0.3 0.3 11.7 12.0 0.3 0.3 0.3 12 2.9 Mang. 0.45 0.44 mg/L 1.32 1.08 0.62 0.54 1.59 5.0 0.4 1.4 4.6 mg/L 1.37 1.22 1.83 AL. 1.51 1.49 1.57 1.8 0.8 2.0 1.6 1.2 N Sulfate Susp.S. Acid Load mg/L 108 85 31 108 24 64 52 39 36 32 mg/L 11.00 14.00 3.00 14 ω w w w w w lb/day N N N Iron Load lb/day 0 0 0 0 0 0 Al.load lb/day 0 0 0 0 Net Acid mg/L 31 22 47 54 54 33 14 15 3 9 Net Alk mg/L 54 33 3 -14 -13 -15 -22 47 54 9

SR125B NORTH DISCHARGE HEADWATERS HILLIARDS TRIB.

AVERAGE 05/16/96 10/11/95 09/27/95 08/29/95 03/30/95 03/01/95 03/13/96 03/16/95 Sampled 75% tile Range Date Max. Min. (gpm) Flow 9 6 9 Lab. 4.1 4.1 4.1 4.3 4.3 4.3 4.3 4.2 0.2 4.1 무 mg/L 4.8 6.6 3.8 6.6 Alk. Acidity Iron 6.2 5.4 5.5 6.6 2.8 3.8 mg/L 50.5 58.0 42.0 16.0 49 42 58 48 42 48 mg/L 0.54 0.3 0.3 0.3 0.3 0.3 0.3 0.5 0.3 0.3 0.2 Mang. mg/L 1.14 1.01 1.09 1.86 1.78 1.79 1.42 1.38 1.0 0.9 1.9 1.4 mg/L 6.43 5.34 4.37 AL. 5.36 5.93 6.03 7.36 7.68 6.1 3.3 4.4 7.7 Sulfate Susp.S. Acid Load Iron Load mg/L 111 103 8 8 6 63 3 70 60 51 78 mg/L 15.70 16.00 0.30 0.3 14 16 6 w w w lb/day G 4 w S lb/day 0 0 0 0 0 0 Al.load lb/day 0 0 0 Net Acid mg/L 38 5 45 51 36 45 42 36 Net Alk mg/L 37 48 86 45 55 65 16 36 42 -36

SR 125D SOUTH DISCHARGE HEADWATERS OF HILLIARDS TRIB.

6/6/96	5/8/96	4/17/96	3/14/96	2/22/96	12/6/95	11/7/95	10/11/95	9/12/95	8/22/95	6/29/95	8/11/93	Sampled	Date	7070 1110	750/ 416	VALENCE	Max.	Min.
												(gpm)	Flow	MINOM	TO A LO	*500	0	0
7.6	7.2	6.7	7.2	6.7	7.7	7	7.5	7.7	6.9	7.7	6.9	рH	Lab.		1.6	3 -	1.7	6.7
136	108	96	108	60	132	94	142	152	158	132	122	mg/L	Alk.		120.0	40.0	158.0	60.0
0	0	0	0	0	0	0	0	0	0	0	0	mg/L	Acidity	0.0	3	0.0	0.0	0.0
0.6	0.44	0.47	0.39	0.41	0.43	1.27	0.4	0.57	0.55	0.58	0.95	mg/L	Iron		0.0	0.8	1.3	0.4
0.29	0.29	0.3	0.29	0.35	0.33	0.61	0.43	0.41	0.37	0.31	0.5	mg/L	Mang.		0.4	0.3	0.6	0.3
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	mg/L	A.	ij,	0.0	0.0	0.5	0.5
137	132	144	131	105	123	119	171	161	159	159	237	mg/L	Sulfate		140	132	237	105
3	3	3	3	3	3	3	3	အ	4	28	18	mg/L	Susp.S.		o	25.00	28.00	3.00
0	0	0	0	0	0	0	0	0	0	0	0	lb/day	Acid Load	c	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	lb/day	Iron Load		0		0	0
0	0	0	0	0	0	0	0	0	0	0	0	lb/day	Al.load		0	0	0	0
-136	-108	-96	-108	-60	-132	-94	-142	-152	-158	-132	-122	mg/L	Net Acid		31	158	0	-158
136	108	96	108	60	132	94	142	152	158	132	122	mg/L	Net Alk		31	158	158	0

4 BALISTERI TRIB. BEFORE MURRIN RUN

Range AVERAGE 75% tile

Max.

00

5.7

3.1

0

1 0.0 64.0 0.4 14.6 12.4 7 19.6 792.0 12.1 84.5 103.0 1 6 19.6 728.0 11.7 69.9 90.6 1 7 336.6 3.5 37.5 38.0 394.0

369 1646 1277 835

50.00 47.00 12

3.00

000

00

000

792 748 336

-792 -44 748 -336

0

3.6

2/3/98	10/9/97	7/10/97	5/13/97	4/15/9/	16/11/6	18/11/2	18/9/1	08/71/71	17/19/96	10/8/96	9/11/96	8/15/96	7/10/96	6/5/96	5/9/96	4/17/96	3/14/96	2/22/96	1/30/96	12/5/95	10/11/95	9/27/95	9/12/95	8/22/95	7/20/95	5/16/95	9/8/94	6/2/94	Sampled	Date
																													(gpm)	Flow
3.7	3.4	3.4	3.5	3.7	3.7	3.6	3.0	3.8	3.5	3.4	3.3	3.1	3.2	3.3	3.8	3.7	3.7	3.8	3.8	3.7	3.5	3.5	3.4	3.3	3.5	4.6	5.7	3.6	PH	Lab.
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	19.6	0.0	mg/L	Alk.
238.0	394.0	394.0	272.0	184.0	156.0	236.0	258.0	128.0	242.0	358.0	332.0	792.0	672.0	470.0	224.0	232.0	214.0	114.0	182.0	292.0	620.0	678.0	458.0	788.0	384.0	106.0	64.0	278.0	mg/L	Acidity
2.3	4.3	5.5	2.5	2.7	1.8	3.8	3.7	1.2	2.8	5.7	5.8	12.1	9.5	5.6	1.1	1.1	1.2	0.9	1.3	1.6	6.1	4.0	4.7	3.7	2.6	0.4	0.8	1.9	mg/L	Iron
29.3	45.8	47.8	32.6	27.3	17.7	30.0	29.8	16.0	28.0	40.4	31.8	64.0	57.2	45.5	27.1	27.4	25.3	18.5	22.9	37.7	84.5	74.5	52.0	56.4	46.6	14.6	15.0	42.4	mg/L	Mang.
26.1	43.3	41.4	28.3	21.0	15.2	26.9	28.3	13.0	24.8	34.9	35.0	85.4	78.3	49.5	23.3	25.8	22.5	15.9	21.9	34.1	75.3	77.9	47.9	103.0	39.7	12.5	12.4	38.4	J/Bw	AL.
680	866	959	830	600	416	735	704	369	655	984	805	1646	1547	1175	539	577	623	383	493	761	1601	1102	987	1592	947	456	507	681	mg/L	Sulfate
۵	۵	6	4	<3	۵	4	10	10	24	12	۵	۵	۵	ယ	3	3	ယ	ω	22	3	20	24	ယ	18	ယ	22	50	3	mg/L	Susp.S.
																													lb/day	Acid Load
																													lb/day	Iron Load
																													lb/day	Al.load
220	394	394	272	184	156	236	258	128	242	358	332	792	672	470	224	232	214	114	182	292	620	678	458	788	384	96	44	278	mg/L	Net Acid
220	394	-394	-272	-184	-156	-236	-258	-128	-242	-358	-332	-792	-672	470	-224	-232	-214	-114	-182	-292	-620	-678	458	-788	-384	-96	4	-278	mg/L	Net Alk

2/3/98	10/9/97	7/9/01/7	2/13/9/	18/61/4	1011101	3/11/07	2/44/07	1/8/97	12/12/96	11/19/96	10/8/96	9/11/96	8/14/96	7/10/96	6/5/96	5/8/96	4/17/96	3/14/96	2/22/96	1/30/96	12/6/95	11/7/95	9/12/95	8/22/95	8/22/95	7/20/95	3/29/94	Sampled	Date	/5% tile	AVERAGE	Range	Max.	MIN.
																												(gpm)	Flow			0	0	0
5.0	6.0	6.4	4.9	4./	4.0	4.8	\$.0	4 4	47	4.8	7	4.8	6.7	6.3	4.6	4.7	4.6	4.6	4.5	4.7	5.6	6.3	7.5	7.3	6.3	6.5	4.6	pН	Lab.		5.4	3.0	7.5	4.5
12.6	32.0	38.0	11.2	12.2	9.8	0.71	1.4	4 0.0	20 1	9 2	10.8	88	46.0	36.0	8.4	9.4	8.6	7.8	7.6	11.2	11.8	36.0	108.0	102.0	42.0	42.0	10.4	mg/L	Alk.		24.6	100.4	108.0	1.6
36.0	24.0	28.0	66.0	86.0	12.0	52.0	00.0	0.00	440	640	58.0	0.88	0.0	11.4	96.0	64.0	72.0	80.0	56.0	82.0	32.0	0.0	0.0	0.0	0.0	0.0	54.0	mg/L	Acidity	66.0	44.8	96.0	96.0	0.0
0.7	1.4	1.2	0.7	0.6	0.4	0.7	0.7	4.0	0.7	0.7	1	1	10	0.9	0.6	0.4	0.3	0.3	0.4	0.4	0.5	1.2	0.3	0.3	3.0	0.6	0.4	mg/L	Iron		0.8	2.7	3.0	0.3
17.0	13.7	15.8	15.2	17.9	11.9	13.7	14.5	0.0	0.0	130	40.0	1/12	11 5	121	17.9	14.0	13.5	14.9	10.9	14.6	12.8	6.5	1.5	4.1	16.0	10.3	12.2	mg/L	Mang.		12.8	16.4	17.9	1.5
9.7	1.4	<.5	5.2	10.7	8.3	7.3	9.0	0.0	7.1	7.0	7	72	27	22	11.4	10.2	10.4	12.5	9.5	12.5	8.1	6.4	0.5	0.5	0.5	4.1	13.0	mg/L	AL.		7.0	12.5	13.0	0.5
524	654	677	672	823	385	578	613	117	104	000	200	500	818	844	649	455	507	524	349	508	547	475	568	590	977	650	261	mg/L	Sulfate		560	716	977	261
10	۵	<3	۵	4	۵	۵	۵	۵	40	77	3 6	3 6	2 1	3	9	13	10	23	8	42	20	13	ω	ω	16	18	32		Susp.S.		17	45.00	48.00	3.00
																												-	Acid Load			0	0	0
																												lb/day	Iron Load			0	0	0
																												lb/dav	Al.load			0	0	0
22	ا ها	-10	55	74	62	40	55	35	55	47	57	46	-25	00	88	77	6.3	72	48	71	20	36	-108	-102	42	42	44	ma/L	Net Acid		20	196	88	-108
3 0	B 3	10	-55	-74	-62	40	-55	-35	-55	47	-57	46	25	00	200	200	82	73	48	74	20	36	108	103	43	43	AA PA	ma/l	Net Alk		-20	196	108	-88

6 CONFLUENT OF THOMAS AND AND SEATON CREEK

08/6/7	1010101	10/9/97	7/10/97	5/13/97	4/15/97	3/11/97	-	1/8/97 36	12/11/96	7	10/8/96 50	0/14/90	8/14/96	6/6/96	5/9/96	4/18/96	3/14/96	2/22/96	1/30/96	12/5/95	11/8/95 15	10/11/95	9/12/95	8/16/95 3	7/20/95	10/13/94	Sampled (gpm)	Date Flow	/3% tile 40		AVERAGE 26
3.5	3 0.	٥.	3 0.0	2 0	3 4	20 .	-	-	3.4	4	3.2	2.4	3.0	3.3	4.0	3.7	3.6	3.8	3.8	3.7	3.7	3.8	3.7	3.9	3.5	4.1	n) pH	w Lab.	F	+	3.5
0.0	+	+	+	+	+	+	+	1	+	+	0.0	+	+	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	1 mg/L	Alk.	r	+	0.3
334.0	0.000	942.0	0.010	2400	3440	208.0	428.0	500.0	356.0	398.0	578.0	7/38.0	1500.0	956.0	134.0	160.0	206.0	134.0	188.0	282.0	426.0	60.0	88.0	64.0	268.0	56.0	-	Acidity	548.0	4.1.4	481 4
20.7	8.00	04.2	20.3	20.4	30.0	70	26.3	28.2	17.8	20.3	46.6	143.0	-	89.3	1.0	1.5	2.2	2.4	2.2	2.8	3.2	1.1	3.2	0.3	8.1	0.3	mg/L	Iron		4.07	30
21.8	52.6	63.6	34.2	20.1	30.4	44 6	27.0	32.3	23.4	25.5	36.7	104.0	93.4	62.8	7.7	11.1	12.6	10.7	11.0	18.2	32.6	5.1	7.0	3.3	17.6	3.2	mg/L	Mang.		1.87	200
40.9	89.0	105.0	55.8	2.5	24.2	2 4	48 1	59.9	39.9	44.2	50 4	169.0	152.0	105.0	15.5	23.0	25.6	21.2	24.9	34.9	62.6	6.8	9.6	7.5	27.2	7.7	7	A.		57.7	-
655	1432			077	410	000	880	937	366	713	1206	T		1755	241	346	439	313	368	523	822	239	246	148	483	154	mg/L	Sulfate		RR/	1
۵	۵	۵	14	7.1	2	3 6	3 3	3 6	3 8	28	54	116	85	з	3	3	ω	ယ	ယ	w	ယ	6	w	4	ω	w	-	Susp.S.		19	
							210	246		747	247										77			2			lb/day	Acid Load	249	161	
							71	3		07	30										_			0			lb/day	Iron Load		10	
							20	30		30	20										11			0			lb/day	Alload		18	
334	850	942	518	344	206	428	500	356	980	5/8	744	1738	1500	956	130	160	206	134	188	282	426	60	88	64	268	53	ma/L	Net Acid		461	
-334	-850	-942	-518	344	-206	428	-500	356	PRE	-578	-744	-1738	-1500	-956	-130	-160	-206	-134	-188	-282	426	50	88 :	64	-268	-50	ma/l	Net Alk		461	

98/8/9	4/18/96	3/14/90	214 400	2/22/08	1/30/96	12/6/95	11/7/95	10/11/95	9/12/95	8/22/95	7/20/95	10/13/94	Sampled	Date	10% (116	111		Max.	MID.
													(gpm)	Flow	*NOM!	#DIV/01	0	0	0
4.6	4.5	4.0	3.0	40	4.6	4.7	4.8	6.3	6.5	6.1	4.7	_	PH	Lab.		5.2	2.0	6.5	4.5
8.8	7.6	0.8	0.1	3	10.6	9.8	8.6	28	28	17.6	10.4	17.6	PH mg/L	Alk.		13.7	20.4	28.0	7.6
84	86	727	00	36	94	60	30	19.4	0	58	128	9.4	mg/L	Acidity	00.0	61	128.0	128.0	0.0
0.5	0.73	0.58	0.03	000	0.63	0.43	1.08	0.47	0.35	0.52	0.49	0.74	mg/L	Iron		0.6	0.7	1.1	0.4
19.7	23	20.2	11.3	1	21.2	15.5	18.6	22.6	24.9	29.2	38	20.5	mg/L	Mang.		22.1	26.7	38.0	11.3
7.67	8.87	9.3	20.0	200	9.5	6.44	5.34	0.77	1.25	2.64	7.68	2.21	mg/L	AL.		5.6	8.7	9.5	0.8
589	675	613	409	070	546	604	679	1169	1210	1028	1165	940	mg/L	Sulfate		802	801	1210	409
အ	3	4	c	1	14	8	8	22	3	6	8	328	mg/L	Susp.S.		34	325.00	328.00	3.00
								31					lb/day	Acid Load	0	0	0	0	0
													lb/day	Iron Load		0	0	0	0
													lb/day	Al.load		0	0	0	0
75	78	113	28	0,0	83	50	21	-9	-28	40	118	-8	mg/L	Net Acid		12	146	118	-28
76	-78	-113	-28	-03	03	5	-21	9	28	8	-118	8	mg/L	Net Alk		-12	146	28	-118

8 MURRIN RUN AT JAMISON RD.

9 MURRIN RUN ABOVE CONFLUENT WITH THOMAS TRIB.

6/5/96	06/0/0	F10.00	4/17/06	3/14/96	2/22/96	1/30/96	12/6/95	11///95	CRILLIOL	CRIZIIA	0/2/2/2	C6/77/0	90000	7/20/95	Sampled	Date	100 tile		VALUACE	Dana.	May.
															(gpm)	Flow	BIACINI.	#NII M	*5000	0	0
4.8	0.3	4.1	4.0	40	4.9	5	6.2	6.2	6.3	6.6	0.4	1.2	1 :	2	PH	Lab.		0.7	0.7	2 1	1 4
8.8	9.6	0.4		7 6	7.6	10	20	32	48	52	44	94	10.6	3	mg/L	Alk.		1.12	00.4	94.0	2.0
88	28	38	3 6	36	15.2	24	2.8	0.2	0	0	14	0	0.4	RA.	mg/L	Acidity	30.0	77	00.0	08.0	0.0
0.71	0.45	0.5	0.00	0 50	0.47	0.59	0.76	1.48	1.85	3.65	2.76	0.3	1.70	175	mg/L	Iron		7.7	3.4	3.1	0.3
18.9	10.5	12.5	9.80	0.00	7.31	9.86	7.45	9.37	11.3	13.3	17.2	3.77	23.1	25.4	ma/L	Mang.		12.0	21.3	25.1	3.8
3.59	1.83	3.82	3.54	3 1.4	2.37	2.84	0.74	0.72	0.5	0.5	0.5	0.5	0.5	- 0	ma/L	AL.		1.7	3.3	3.8	0.5
882	416	500	410	110	275	402	509	696	985	1225	972	587	ZCOL		mall	Sulfate		686	950	1225	275
3	မ	w	00		B	ယ	12	20	3	12	3	12	3	B	ma/l	Susp.S.		7	17.00	20.00	3.00
														- Dividay	lh/day	Acid Load	0	0	0	0	0
														ibyuay	$\overline{}$	Iron Load		0	0	0	0
														ib/day	lh/day	Al load		0	0	0	0
50	18	30	28	a	0 1	14	-17	-32	48	-52	-30	-94	46	mg/L	1000	Net Acid		-2	153	59	-94
60	-18	યુ	-28	å		4	17	32	48	52	30	94	46	mg/L	100	Not Alk		2	153	94	-59

2/3/98	10/9/97	10/3/97	76/01/7	1/8/8/	96/71/71	96/07/1	08/8/01	9/11/80	8/15/96	7/11/96	6/5/96	5/9/96	4/18/96	3/14/96	2/22/96	1/30/96	12/6/95	11/7/95	10/11/95	9/27/95	9/12/95	7/20/95	5/16/95	9/8/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
																									(gpm)	Flow			0	0	0
4.7	4.6	4.7	4.9	4.8	4.1	4.7	4.8	4.6	5.6	4.9	4.9	4.7	4.6	4.7	4.9	4.9	4.7	4.5	5.9	4.5	6.5	4.8	5.1	5.8	рН	Lab.		4.9	2.0	6.5	4.5
12.4	11.4	10.0	10.6	11.6	11.2	10.8	11.6	8.8	20.0	13.0	9.2	7.6	6.6	7.4	7.6	9.8	9.2	9.4	18.8	9.6	38.0	10.4	11.2	16.6	mg/L	Alk.		12.2	31.4	38.0	6.6
136.0	150.0	88.0	96.0	46.0	64.0	90.0	82.0	106.0	74.0	112.0	54.0	22.0	20.0	54.0	16.8	24.0	38.0	76.0	13.4	0.88	0.0	92.0	54.0	68.0	mg/L	Acidity	92.0	67.0	150.0	150.0	0.0
0.5	0.6	0.6	0.7	<.30	0.4	0.5	0.6	0.8	1.0	0.7	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.4	2.5	0.9	mg/L	Iron		0.6	2.2	2.5	0.3
30.9	35.9	19.1	31.3	9.1	12.7	20.4	20.8	23.7	25.6	33.0	15.4	5.6	7.9	6.0	4.2	6.5	9.3	20.0	15.1	23.7	21.9	30.3	14.7		mg/L	Mang.		18.6	31.7	35.9	4.2
14.5	13.1	7.0	7.7	5.9	6.7	10.2	7.0	9.9	5.9	9.0	4.2	2.9	3.8	3.5	2.3	3.5	5.2	10.5	3.2	6.0	1.3	5.9	5.1	4.1	mg/L	AL.		6.3	13.3	14.5	1.3
774	1160	733	935	348	291	641	847	880	1253	1056	714	172	307	198	224	213	391	673	892	1994	956	918	1255	932	mg/L	Sulfate		750	1822	1994	172
۵	۵	8	14	40	16	۵	24	18	11	5	3	ဒ	ω	3	w	8	12	ω	22	w	3	ယ	50	12	mg/L	Susp.S.		12	47.00	50.00	3.00
																									_	Acid Load			0	0	0
																									lb/day	Iron Load			0	0	0
																									lb/day	Alload			0	0	0
124	130	78	85	34	53	79	70	96	54	99	45	14	13	47	9	14	29	67	in i	88	38	82	43	51	mg/L	Net Acid		55	177	139	-38
404	130	-78	-85	34	-53	-79	-70	-96	54	-99	45	-14	-13	47	6	-14	-29	67	5 5	3	38	82	43	51	mg/L	Net Alk		-55	177	38	-139

11 CAMPBELL TRIB, BEFORE CONFLUENT WITH ACT 43 TRIB.

2/3/98	10/9/97	76/01//	3/13/9/	16/01/14	4/46/07	3/41/07	2/11/97	1/8/97	12/12/96	11/20/96	10/9/96	9/11/96	8/15/96	7/11/96	6/5/96	96/6/9	4/18/96	3/14/96	06/77/7	1/30/96	12/6/95	11/7/95	10/11/95	9/12/95	8/22/95	7/20/95	5/16/95	9/8/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
																													(gpm)	Flow			0	0	0
4.2	4.4	4.4	4.2	4.	4.4	3 6	4	4.3	4.5	4.5	4.5	4.5	4.4	4.4	3.7	3.8	3.7	3.8	4.1	4.1	4.5	4.5	4.5	4.1	3.9	3.9	4.0	4.8	pН	Lab.		4.2	1.1	4.8	3.7
6.6	10.8	10.4	8.4	0.0	0.0	0.1	2	10.8	11.4	11.0	12.4	9.6	10.8	12.0	0.0	0.0	0.0	0.0	4.2	5.8	10.4	9.6	9.0	5.2	0.0	0.0	2.8	11.0	mg/L	Alk.		6.9	12.4	12.4	0.0
306.0	202.0	280.0	334.0	240.0	230.0	0.262	3430	300.0	150.0	226.0	234.0	204.0	252.0	316.0	366.0	246.0	240.0	288.0	140.0	262.0	160.0	112.0	126.0	222.0	256.0	310.0	198.0	114.0	mg/L	Acidity	282.0	234.1	254.0	366.0	112.0
1.0	0.6	0.8	0.8	1.1	1.0	0.0		10	0.7	0.7	0.7	0.7	0.7	0.5	2.1	1.6	2.3	1.7	1.7	1.9	0.9	0.9	0.3	0.7	0.8	1.8	1.6	2.7	mg/L	Iron		1.1	2.4	2.7	0.3
58.0	48.4	72.4	57.0	51.9	31.1	0.040	40 3	54 2	27.9	44.2	49.2	44.7	60.6	69.6	68.8	50.7	51.2	46.4	31.5	53.5	32.4	31.2	50.1	70.8	77.8	75.5	42.5	36.6	mg/L	Mang.		51.5	49.9	77.8	27.9
30.9	14.8	21.0	23.1	22.4	20.1	24.1	2 1	27 8	14.3	24.8	18.9	16.5	17.8	24.3	29.6	22.9	22.1	24.4	15.7	25.7	15.6	14.7	5.5	7.7	12.0	22.0	14.9	7.1	mg/L	AL.		19.3	25.4	30.9	5.5
1249	1182	1197	1307	1175	847	101	1107	1167	594	963	1246	1083	1392	1732	1553	1082	1154	1046	646	912	895	881	1219	1691	1416	1449	862	1153	mg/L	Sulfate		1150	1138	1732	594
۵	12	<3	8	۵	4	3	0	100	10	۵	6	۵	۵	3	3	ယ	3	အ	ယ	18	10	ω	10	3	ω	6	8	18	mg/L	Susp.S.		8	15.00	18.00	3.00
																													-	Acid Load			0	0	0
																													lb/day	Iron Load		8	0	0	0
																													lb/day	Al.load			0	0	0
299	191	270	326	234	224	234	887	RCI	430	215	222	194	241	304	366	246	240	288	136	256	150	102	117	217	256	310	195	103	mg/L	Net Acid		227	264	366	102
-299	-191	-270	-326	-234	-224	-234	-289	-139	420	245	-222	-194	-241	304	366	-246	-240	-288	-136	-256	-150	-102	-117	-217	-256	310	-195	-103	mg/L	Net Alk		-227	264	-102	-366

12 ACT 43 TRIB. AT MOUTH

6/5/96	5/8/96	4/17/96	3/14/96	2/22/96	1/30/96	12/6/95	C6///LL	10/11/95	9/12/95	8/22/95	6/29/95	67/95	4/18/95	3/22/85	11/2/94	8/24/93	Sampled (gpm)	Date Flow	MOM# all %C/	10	\rightarrow	+	+
5.9	6.6	5.8	6.2	5.3	6.3	7.3	6.5	6.5	6.7	6.7	7.1	7.4	6.5	6.5	7.1	7.2	-	W Lab.	M	0.6	-	-	1
9 17.2	6 58	8 16.2	2 26	+	-	+	1	+	7 86	7 72	1 110	4 94	5 28	5 28			1	b. Alk.		57.0	+	+	+
2 40	0	2 22	6.2	20		-	-	0	0	0	0	0	0	0	0	0	/L mg/L	. Acidity	5.6	1	_		1
4.13	0.3	0.34	0.35	0,3	0.54	0.45	1.31	1	0.93	0.86	0.54	0.3	1.14	0.51	0.54	0.44	mg/L	Iron		0.8	3.8	4.1	0.3
16.3	4.84	8.65	5.8	6.45	8.3	3.28	5.78	7.22	6.32	10.7	2.88	1.13	6.24	7.42	0.87	0.65	mg/L	Mang.		6.0	15.7	16.3	0.7
6.13	0.81	2.96	2.38	2.97	3.97	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2.44	1.88	0.5	0.5	mg/L	AL.		1.6	5.6	6.1	0.5
603	198	373	324	232	369	234	357	689	666	658	180	175	362	386	94	492	mg/L	Sulfate		376	595	689	94
	3	3	9	26	22	4	9	12	ω	3	4	4	10	6	12	4	mg/L	Susp.S.		8	23.00	26.00	3.00
																	lb/day	Acid Load	0	0	0	0	0
																	lb/day	Iron Load		0	0	0	0
																	lb/day	Al.load		0	0	0	0
3	-58	6	-20	12	-18	-86	-92	-62	-86	-72	-110	-94	-28	-28	-52	-110	mg/L	Net Acid		-19	133	23	-110
3	58	6	20	-12	18	86	92	62	86	72	110	94	28	28	52	110	mg/L	Net Alk		19	133	110	-23

Max. Range AVERAGE 75% tile 9/8/94 Sampled 4/18/95 Min. Date (gpm) Flow 00 0 6.6 6.6 26.0 2.4 21.0 5.4 15.5 Lab. 4.2 4.2 pH mg/L Alk. Acidity Iron 5.0 26 G 26.0 mg/L 19.5 0.0 26 13 0 mg/L 0.37 0.4 0.3 0.3 Mang. mg/L 1.21 0.07 0.6 0.1 1.1 1.2 AL. 1.58 mg/L 0.5 1.0 0.5 1.1 1.6 Sulfate Susp.S. Acid Load mg/L 127 60 127 67 94 60 8.00 10.00 2.00 mg/L 9 6 8 lb/day 0 0 0 0 0 0 Iron Load lb/day 0 00 0 0 0 Al.load lb/day 0 0 0 0 0 **Net Acid** mg/L -26 2 3 47 27 26 Net Alk mg/L 26 -21 ω 4 8 ½

16 FIRST UPSTREAM TRIB. EAST ABOVE GOFF RD. BRIDGE

1/30/96	4/18/95	11/2/94	5/3/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
				(gpm)	Flow			0	0	0
6.5	6.9	5.5	6.8	만	Lab.		6.4	1.4	6.9	5.5
26	50	11.4	42	mg/L	Alk.		32.4	38.6	50.0	11.4
0	0	13.4	0	mg/L	Acidity	3.4	3	13.4	13.4	0.0
0.3	0.85	0.9	0.7	mg/L	Iron		0.7	0.6	0.9	0.3
0.07	0.44	0.07	0.33	mg/L	Mang.		0.2	0.4	0.4	0.1
0.5	0.5	0.84	0.5	mg/L	AL.		0.6	0.3	0.8	0.5
90	70	33	118	mg/L	Sulfate		78	85	118	33
3	14	50	2	mg/L	Susp.S.		17	48.00	50.00	2.00
0	0	0	0	lb/day	Acid Load	0	0	0	0	0
0	0	0	0	lb/day	Iron Load		0	0	0	0
0	0	0	0	lb/day	Al.load		0	0	0	0
-26	-50	2	-42	mg/L	Net Acid		-29	52	N	-50
26	50	-2	42	mg/L	Net Alk		29	52	50	-2

17 UPSTREAM POINT FIRST TRIB, EAST ABOVE GOFF RD. BRIDGE

7/16/97	7/10/97	78/51/6	16/67/4	18/01/4	4/15/07	3/11/97	2/11/97	1/15/97	12/11/96	11/19/96	10/8/96	9/11/96	8/14/96	7/10/96	6/5/96	5/7/96	4/17/96	3/13/96	2/21/96	1/30/96	12/5/95	11/7/95	10/11/95	9/12/95	8/22/95	6/29/95	6/7/95	4/18/95	3/22/95	11/2/94	5/3/94	Sampled	Date	/5% tile	AVERAGE	Range	Max.	Min.
						1									T ₁																	(gpm)	Flow			0	0	0
6.5 6	6.7 5	6.5	+	1	+	+	+	+	6.3	6.4	6.7	6.5	6.5		6.2	6.2	6.1	-	5.5	6.3	6.9	-	-	-	-	6.5	6.6	6.5	6.5	6.6		_	Lab.		6.4	1.4	6.9	5.5
62.0	58.0	34.0	28.0	16.2	10.4	0.0	28.0	34.0	28.0	28.0	48.0	34.0	52.0	46.0	30.0	16.0	14.8	17.6	9.4	20.0	44.0	46.0	60.0	64.0	62.0	36.0	32.0	26.0	28.0	26.0	22.0	-	Ak.		34.7	54.6	64.0	9.4
0.0	0.0	0.0	0.0	12.0	0.8	3 6	3	20	28.0	0.8	0.0	0.0	0.0	0.0	10.0	17.6	8.8	36.0	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	mg/L	Acidity	9.1	4.8	36.0	36.0	0.0
0.7	0.9	0.7	1.8	0.7	0.9	0.0		10	1.0	0.8	0.7	0.8	1.0	1.4	0.9	0.7	0.8	0.9	0.9	1.4	0.9	2	0.9	0.8	0.7	0.5	0.3	-1	1.0	10	13	_	Iron		0.9	1.5	1.8	0.3
4.7	6.1	6.3	7.9	7.4	5.0	0.0	7	7.5	74	5.6	4.7	5.3	5.5	6.2	91	6.1	7.1	6.5	5	5.4	4.3	37	32	3.4	4.7	6.7	44	6.1	5 4	4.2	7	_	Mano		5.9	5.9	9.1	3.2
^.50	5.50	0.5	0.9	2.4	2.8	1.1	1.0	9	31	1.0	9.0	< 50	^ 50	0.5	9 .	1.4	23	29	28	3	0.5	0.7	0.5	0.5	0.5	0.5	0 10	2 .	16	9.0	3 8 5	_	ΔΙ		1.5	3.3	3.8	0.5
478	451	460	389	317	249	354	700	120	207	310	327	291	487	305	440	304	306	ACE.	207	309	362	204	AOR	560	202	447	333	2080	359	247	2,6	mall	Sulfato		459	2782	2989	207
۵	۵	۵	۵	4	10	۵	3	2	3	36	- 2	۵	2		3	0	200	3 6	30	30		3 8		20	20	36	D =	2	0	200	1/8/11	10	- 1		10	33.00	36.00	3 00
																															ib/day	12	⊣ ,			0		0
																															ib/day	Iron Load						
																															lb/day	Alload			0			
-58	34	-28	3 4		B	-28	-32	0	-27	48	-34	-52	-46	-20	N	6	18	0	-15	4	46	-60	-64	-62	-36	-32	-26	-28	-26	-9	mg/L	Net Acid		20	82	18	-64	
58	34	28	4	0	0	28	32	0	27	48	34	52	46	20	2	6	-18	0	15	44	46	60	64	62	36	32	26	28	26	8	mg/L	Net Alk		30	82	64	-18	

18 MURRIN RUN AT GOFF STATION

	1/30/98	JAIAIOI
	6.0	6.3
	24.0	56.0
	6.6	0.0
	1.2	0.8
	8.1	6.1
4	32	<.50
100	405	443
	3	4
-17		50
17	20	60

NU

111100	17/08	10/10/97	8/5/97	5/20/97	3/19/97	2/12/97	76/87/1	11/19/96	10/16/96	9/11/96	8/16/96	7/10/96	6/18/96	5/8/96	4/16/96	3/14/96	2/21/96	11/14/95	10/11/95	9/12/95	8/22/95	6/29/95	6/7/95	3/22/95	11/2/94	5/3/94	Sampled	Date
																											(gpm)	Flow
4.0	3	37	3.4	3.8	4.2	4.2	4.3	4.1	3.9	3.7	3.7	3.6	3.5	3.9	4.0	4.2	4.4	4.2	3.6	3.5	3.4	3.8	5.1	5.0	4.1	5.0	РН	Lab.
7.8		3	0.0	0.0	5.2	6.0	6.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	2.0	7.0	5.4	4.8	0.0	0.0	0.0	0.0	8.6	10.4	4.4	11.2	mg/L	Alk.
24.0	0.00	600	104.0	56.0	32.0	38.0	40.0	40.0	60.0	48.0	76.0	74.0	114.0	70.0	30.0	74.0	20.0	28.0	62.0	100.0	96.0	38.0	56.0	38.0	34.0	68.0	mg/L	Acidity
-	-	3 0	4	0.6	1.4	1.6	1.5	0.9	0.9	0.8	1.0	1.5	2.2	0.7	0.9	2.7	1.8	0.8	1.5	2.8	2.7	2.1	6.3	6.6	1.0	10.0	mg/L	Iron
12.0	0.01	10.7	2 2	12.8	9.5	9.9	8.8	11.1	17.0	14.4	17.1	19.1	19.1	10.2	12.8	12.1	6.6	9.2	22.9	28.1	25.9	14.1	11.0	14.1	7.9	19.0	mg/L	Mang.
=	0.7	0.0	2	4	1.2	1.0		0.9	0.8	0.5	0.8	0.9	10	10	1.7	1.4	1.0	0.8	0.7	0.8	0.6	0.7	0.5	1.4	0.7	3.1	- 1	AL.
413	558	2/0	404	454	343	346	310	327	534	424	541	610	687	391	393	416	193	285	715	814	767	395	356	428	232	512	ma/L	Sulfate
^3	^3	2	هٔ د	3	۵	۵	۵	38	۵	۵	۵	۵	ه د		۵ (۵ (د		24	2	6	9 1	1	20 0	: س	14	٠,		Susp.S.
																										1	lb/day	Acid Load
																										- Dividity	lh/day	Iron I gad
																										ibiuay	The sad	Medila
	56	104	56	27	32	33	22	37	8 8	6	74	114	/0	28	10	15	22	202	200	98	38	47	28	30	5/	III9/L	Met Word	Nice Acid
000	56	-104	-56	-27	-32	25	15	60	48	-76	-74	-114	-70	-28	-67	-15	-23	-62	-100	-96	-38	47	-28	30	-57	mg/L	Net AIK	11.

19 SEATON CREEK BEFORE CONFLUENT WITH MURRIN RUN

Max. Range AVERAGE

000

5.1

3.4

0.0

6.6

0.5

193

4.0

3.0

20.0 114.0 94.0 56.8 73.0

2.2

14.9

3.1 2.6

9

11.2

10.0

28.1 21.5

814 621 466

000

3.00 38.00 35.00

000

000

3

-114

114 99

54 99 Min.

75% tile

98/1/1	10,0,0	10/9/97	8/5/97	3/19/97	2/2/197	1/23/9/	11/19/96	10/15/96	9/10/96	8/15/96	7/9/96	6/18/96	5/8/96	4/16/96	3/13/90	2/42/00	2/21/06	Sampled	Date		75% tile	AVERAGE	Kange	Max.	Min.	
																Į.	1	(gpm)	Flow				0	0	0	
4.7	4.4	3	3.5	5.0	4.8	4.8	5.1	4.4	4.2	3.7	4.2	4.1	5.0	4.8	5.0	0.0	2	면	Lab.			4.5	1.6	5.1	3.5	
8.2	4.0		00	9.6	8.6	7.8	8.0	6.4	4.6	0.0	5.6	4.2	7.6	8.4	7.8	1.6	10	ma/L	Alk.			6.2	9.6	9.6	0.0	
22.0	40.0		1160	42.0	34.0	56.0	40.0	56.0	44.0	84.0	82.0	122.0	74.0	38.0	68.0	22.0	٦Г		Acidity		76.0	59.1	100.0	122.0	22.0	
2.1	1.5	1.0	40	6.0	2.8	4.4	4.2	4.3	8.0	4.2	11.9	11.1	5.2	3.9	7.1	3.1	1.6	BO .	Iron			4.8	11.1	11.9	0.8	
10.7	13.7	1.07	20.7	10.5	9.0	11.2	11.4	17.0	12.5	25.2	23.9	22.7	10.5	13.3	12.8	7.4	1	ma/l	Mana.			15.1	22.3	29.7	7.4	
1.0	0.8		3	2	1.3	1.4	0.9	0.6	0.7	0.8	0.8	1.1	1.0	2.2	1.4	1.0	1/R111		A			-1	1.5	2.2	0.6	
364	453	000	750	388	270	352	339	561	364	692	641	720	406	419	356	207	111811	_	Sulfato			454	549	756	207	
3	3	<3	6	3 i	12	48	20	۵	12	۵	۵	12	w	w	S	3	mg/L		Sugne	I		13	45.00	48.00	3.00	
																	lb/day	13					0	0	0	
																	lb/day	HOR LOAD						0	0	
																	lb/day	Alload				0				
	44	116	32	25	40	36	3	BC BC	30	10	70	00	66	300	80	14	mg/L	Net Acid			33	104	110	140		
4		-116	-32	-25	40	75	3 6	-39	-84	-/6	-118	-00	-30	8 8	2 3	14	mg/L	Net Alk			-03	104	-14	-110	1	

Range AVERAGE 10/12/95 3/13/96 9/8/94 6/29/95 Sampled 75% tile 9/8/94 Date Max. Flow (gpm) 00 0 Lab. Alk. Acidity Iron Mang. AL. pH mg/L mg/L mg/L mg/L mg/L mg/L 6.4 6.5 6.5 6.7 6.7 0.4 6.5 6.7 6.3 19.8 26.8 15.2 16.8 32.0 30 32 32 16.8 30 6.8 22.0 22.0 0.0 0 51 0 0 9 0 0.54 0.34 0.86 0.3 0.3 0.6 0.9 0.3 0.5 0.08 0.05 0.12 0.12 0.12 0.1 0.1 0.1 0.1 0.1 0.5 0.59 0.5 0.5 0.5 0.5 0.5 0.1 0.6 0.5 Sulfate Susp.S. Acid Load Iron Load mg/L 51 51 35 35 40 51 40 28 mg/L 79.00 82.00 3.00 4 82 22 20 w w ω lb/day 0 0 0 0 0 0 0 0 0 0 0 lb/day 0 0 0 0 0 0 0 0 0 Al.load lb/day 0 0 0 0 0 0 0 0 Net Acid -32 3 8 8 22 37 32 Net Alk mg/L 32 32 30 30 22 37 32 5 =

21 DOWNSTREAM POINT FIRST NORTH TRIB. UPSTREAM ERICO BRIDGE

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5/8/96	3/13/96	CAITIO	40/42/05	9/8/94	paidmed	Date	75% tile	AVERAGE	Kange	Max.	Win.	Min
					(gpm)	Flow			0	0	0	>
6.2	6.4	0.0	6.3	6.3	PI	Lab.		6.4	0.4	6.6	6.2	>
18	17.8	44	14.8	14.8	mg/L	Alk.		21.9	29.2	44.0	14.8	
20	10	0	17.6	17.6	mg/L	1	17.6	13	20.0	20.0	0.0	0
0.36	0.3	0.63	0.3	0.3	mg/L	Iron		0.4	0.3	0.6	0.3	,
0.06	0.05	0.32	0.05	0.05	mg/L	Mang.		0.1	0.3	0.3	0.1	
0.5	0.5	0.5	0.5	0.5	mg/L	A.		0.5	0.0	0.5	0.5	
40	43	20	116	116	mg/L	Sulfate		67	96	116	20	
ယ	8	w	3	ယ	mg/L	Sulfate Susp.S.		4	5.00	8.00	3.00	-
0	0	0	0	0	lb/day	Acid Load	0	0	0	0	0	
0	0	0	0	0	lb/day	Iron Load		0	0	0	0	
0	0	0	0	0	lb/day	Al.load		0	0	0	0	
2	8	-44	з	ယ	mg/L	Net Acid		-9	47	3	-44	
-2	80	44	لم	ى	mg/L	Net All		9	47	44	ఒ	

1/7/98	12/23/97	11/18/97	10/9/97	8/12/97	7/10/97	6/10/97	3/21/97	11/26/96	10/24/96	9/18/96	8/29/96	7/31/96	6/27/96	5/30/96	4/18/96	3/27/96	2/22/96	11/20/95	9/12/95	7/27/95	6/29/95	5/16/95	Sampled	Date
	150																		19				(gpm)	Flow Lab.
3.6	3.8	3.7	3.3	3.0	3.1	3.2	3.6	4.3	3.7	3.6	3.1	3.1	3.4	3.3	3.5	3.4	4.0	3.7	3.0	3.1	3.6	3.4	PH	Lab.
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	mg/L	Alk.
112.0	70.0	118.0	220.0	410.0	342.0	216.0	144.0	46.0	80.0	86.0	334.0	262.0	140.0	224.0	130.0	150.0	32.0	58.0	420.0	242.0	116.0	162.0	mg/L	Acidity Iron Mang.
5.9	4.8	8.7	10.5	18.2	17.4	9.8	7.4	2.3	3.6	3.7	13.0	9.8	6.7	12.6	6.9	8.0	2.9	4.9	19.5	9.8	5.1	8.4	mg/L	Iron
23.0	15.7	23.0	40.9	69.8	61.2	39.6	28.3	9.9	19.4	16.3	63.2	50.8	31.3	49.6	28.2	30.6	11.5	16.8	81.1	51.9	35.6	32.8	mg/L	Mang.
4.7	3.3	4.5	7.1	12.4	11.0	7.4	6.2	2.0	3.7	2.8	11.0	8.6	5.7	9.5	5.5	6.9	2.5	3.0	14.3	8.0	7.0	5.8	mg/L	AL.
550	373	597	900	1577	1203	898	696	198	535	399	1418	1132	636	1154	681	837	266	350	1812	1089	571	598	mg/L	Sulfate
4	3	<3	<3	6	<3	<3	<3	8	4	<3	<3	<3	5	3	3	3	3	3	6	3	14	6	mg/L	Susp.S.
	126																		96				lb/day	Sulfate Susp.S. Acid Load
	9																		4				lb/day	Iron Load
	6																		3				lb/day	Al.load
112	70	118	220	410	342	216	144	40	80	86	334	262	140	224	130	150	29	58	420	242	116	162	mg/L	Net Acid
-112	-70	-118	-220	410	-342	-216	-144	40	-80	-86	-334	-262	-140	-224	-130	-150	-29	-58	420	-242	-116	-162	mg/L	Net Alk

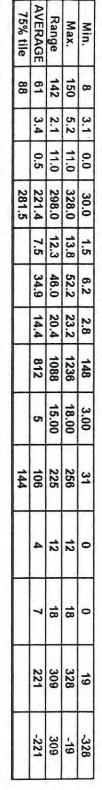
				119						233.0			117	75% tile
8	17	5	7	111	۲.	803	6.6	36.1	8.7	178.9	0.4	3.5	85	AVERAGE
7	39	3	4	30	11.00	1614	12.3	71.2	17.2	388.0	6.4	1.3	131	Range
ŏ	42	6	9	126	14.00	1812	14.3	81.1	19.5	420.0	6.4	4.3	150	Max.
9	2	ဒ	4	96	3.00	198	2.0	9.9	2.3	32.0	0.0	3.0	19	Min.

23 WEST TRIB. SEATON CREEK AT STATE ROUTE 58

AVERAGE 75% tile 6/18/96 8/22/95 3/13/96 2/22/96 11/15/95 Sampled Range 4/30/96 6/29/95 12/6/88 5/9/96 Date Max. Min. (gpm) Flow 20 12 8 16 20 12 8 Lab. pH mg/L 5.0 6.6 6.2 6.2 6.2 5.9 6.2 1.6 6.6 6.5 6.6 6.2 S Alk. Acidity Iron 16.7 13.8 15.2 25.0 34.0 9.0 14.6 15.2 18.8 10.6 19.4 34 9 mg/L 50.0 50.0 15.6 6.0 0.0 4.4 50 8 0 0 0 0 0 mg/L 0.67 4.74 0.94 0.9 0.3 0.3 0.3 0.3 0.3 0.3 4.4 4.7 0.3 Mang. 0.34 0.82 0.23 0.26 0.37 0.64 5.46 mg/L 22.9 23.1 1.15 23.1 3.6 0.2 mg/L 4.47 0.53 AL. 0.5 0.5 0.5 0.5 0.5 0.5 0.9 4.0 4.5 0.5 Sulfate Susp.S. mg/L 1131 1221 1221 870 306 473 403 264 141 120 144 90 90 163.00 166.00 mg/L 3.00 166 29 10 32 æ w w w Acid Load lb/day 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Iron Load lb/day 0 0 0 0 0 0 0 0 0 0 0 0 lb/day Al.load 0 0 0 0 0 0 0 0 0 0 0 Net Acid mg/L -39 4 73 -19 -14 -15 -19 39 ۵ 0 င် Net Alk mg/L 73 34 39 -39 15 14 19 1 8 34 19 w 0

24 UPSTREAM FIRST NORTH TRIB. BELOW MCJUNCTION RD. STREAM CROSSING

1/7/98	12/23/97	11/18/97	10/9/97	8/12/97	7/10/97	6/10/97	1/6/97	11/26/96	10/24/96	9/18/96	8/29/96	7/31/96	6/27/96	5/30/96	4/18/96	3/27/96	2/22/96	11/20/95	9/12/95	7/27/95	6/29/95	5/16/95	1/26/81	Sampled	Date
	150				0														8				25	(gpm)	MOL
3.3	3.6	3.4	3.1	3.1	3.1	3.1	3.4	5.2	3.4	3.2	3.2	3.2	3.2	3.3	3.4	3.2	3.5	3.4	3.2	3.2	3.3	3.3	3.6	PН	Lab.
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	mg/L	AIK.
226.0	142.0	298.0	328.0	322.0	302.0	276.0	184.0	30.0	190.0	222.0	304.0	264.0	236.0	224.0	184.0	220.0	108.0	166.0	320.0	238.0	202.0	220.0	108.0	mg/L	Acidity from Mang.
10.7	6.7	13.8	12.2	8.2	9.9	9.2	7.9	1.9	10.1	7.2	7.8	6.3	8.4	7.0	5.3	7.2	4.3	8.1	7.3	6.4	6.5	6.5	1.5	mg/L	Iron
34.2	23.1	41.1	49.0	46.4	45.1	36.8	27.1	6.2	34.7	30.7	45.9	39.5	40.0	35.1	29.0	33.3	20.2	31.6	52.2	39.4	36.9	36.0	24.4	mg/L	Buein
12.9	10.2	17.4	19.0	18.7	17.1	13.8	11.2	2.8	13.0	11.5	19.2	15.4	16.0	15.3	13.0	15.1	9.1	13.6	23.2	14.9	15.1	13.7		mg/L	A.
1236	501	1008	1043	947	782	880	867	148	767	737	1188	792	891	966	749	921	485	648	879	894	915	666	580	. mg/L	aleino
۵	3	<3	8	4	<3	6	<3	18	<3	3	<3	3	3	3	3	3	3	3	3	3	10	4	4	mg/L	Susp.S.
	256																		31				32	lb/day	ACIO LOGO
	12																		1				0	lb/day	Iron Load
	18																		2				0	lb/day	Al.load
226	142	298	328	322	302	276	184	19	190	222	304	264	236	224	184	220	108	166	320	238	202	220	108	mg/L	Net Acid
-226	-142	-298	-328	-322	-302	-276	-184	-19	-190	-222	-304	-264	-236	-224	-184	-220	-108	-166	-320	-238	-202	-220	-108	mg/L	Net Alk





26 DOWNSTREAM FIRST NORTH TRIB. BELOW MCJUNCTION RD. STREAM CROSSING

0 4.5 9.0 0.0 0.3 11.5 0.5 758 8 0 6.2 34.0 114.0 1.1 45.4 12.2 996 8 0 1.7 25.0 114.0 0.8 33.9 11.7 238 0 E 5.4 21.5 57 0.7 28.5 6.4 877 E Flow Lab. Alk. Acidity Iron Mang. AL. Sulfate Suddigam ph mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L						-	100	0.0	11.3	0.3	•	34	6.2		8/22/95
0 4.5 9.0 0.0 0.3 11.5 0.5 758 8.00 0 0 0 0 105 0 6.2 34.0 114.0 1.1 45.4 12.2 996 8.00 0 0 0 0 105 0 1.7 25.0 114.0 0.8 33.9 11.7 238 0.00 0 0 0 0 139 5.4 21.5 57 0.7 28.5 6.4 877 8 0 0 0 0 36 Flow Lab. Alk. Acidity Iron Mang. AL. Sulfate Susp.S. Acid Load Iron Load Al.load Net Acid (gpm) pH mg/L mg/L mg/L mg/L mg/L mg/L lb/day lb/day lb/day lb/day	34	-34	0	0	0	æ	758	2	44 6	3	,	2	3		4
0 4.5 9.0 0.0 0.3 11.5 0.5 758 8.00 0 0 0 0 105 0 6.2 34.0 114.0 1.1 45.4 12.2 996 8.00 0 0 0 0 105 0 1.7 25.0 114.0 0.8 33.9 11.7 238 0.00 0 0 0 0 139 5.4 21.5 57 0.7 28.5 6.4 877 8 0 0 0 0 36 Flow Lab. Alk. Acidity Iron Mang. AL. Sulfate Susp.S. Acid Load Iron Load Al.load Net Acid (gpm) pH mg/L mg/L mg/L mg/L mg/L mg/L lb/day lb/day lb/day lb/day	-100	100	0	0	0		996	12.2	45.4	1.13	114	9	4.5		8/17/89
0 4.5 9.0 0.0 0.3 11.5 0.5 758 8.00 0 0 0 0 105 0 6.2 34.0 114.0 1.1 45.4 12.2 996 8.00 0 0 0 0 139 0 1.7 25.0 114.0 0.8 33.9 11.7 238 0.00 0 0 0 0 36 0 5.4 21.5 57 0.7 28.5 6.4 877 8 0 0 0 0 36 Flow Lab. Alk. Acidity Iron Mang. AL. Sulfate Susp.S. Acid Load Iron Load Al.load Net Acid Iron Load Iron Iron Iron Iron Iron Iron Iron Iron	105	102	0		,		11	1		0				(Boile	odilibien
0 4.5 9.0 0.0 0.3 11.5 0.5 758 8.00 0 0 0 0 0 105 0 6.2 34.0 114.0 1.1 45.4 12.2 996 8.00 0 0 0 0 105 0 139 0 1.7 25.0 114.0 0.8 33.9 11.7 238 0.00 0 0 0 0 36 5.4 21.5 57 0.7 28.5 6.4 877 8 0 0 0 0 0 36 0 36 0 0 0 0 0 36 0 0 0 0	1	1,8,11	1D/Udy	ib/day	ib/day	mg/L		mg/L	ma/L	ma/L	ma/L	ma/	- 1	(man)	Campled
0 4.5 9.0 0.0 0.3 11.5 0.5 758 8.00 0 0 0 0 0 105 0 6.2 34.0 114.0 1.1 45.4 12.2 996 8.00 0 0 0 0 0 139 0 1.7 25.0 114.0 0.8 33.9 11.7 238 0.00 0 0 0 0 0 36 5.4 21.5 57 0.7 28.5 6.4 877 8 0 0 0 0 36 85.5 85.5 85.5 85.5 86.4 815.5 86.4 8	mal	mall	Ib/dov	11.	1010	Ouopio.	Oulidio	31.	Bugin.	Iron	Acidity	_	Lab.	Flow	Date
0 4.5 9.0 0.0 0.3 11.5 0.5 758 8.00 0 0 0 0 105 0 6.2 34.0 114.0 1.1 45.4 12.2 996 8.00 0 0 0 0 105 0 1.7 25.0 114.0 0.8 33.9 11.7 238 0.00 0 0 0 0 139 5.4 21.5 57 0.7 28.5 6.4 877 8 0 0 0 36 85.5 85.5 85.5 85.5 85.5 86.4 877 86.0 87 </td <td>Net Alk</td> <td>Net Acid</td> <td>Al.load</td> <td>Iron Load</td> <td>Acid Load</td> <td>Suspe</td> <td>Sulfato</td> <td>2</td> <td>Mana</td> <td>-</td> <td>1</td> <td>-</td> <td></td> <td></td> <td></td>	Net Alk	Net Acid	Al.load	Iron Load	Acid Load	Suspe	Sulfato	2	Mana	-	1	-			
0 4.5 9.0 0.0 0.3 11.5 0.5 758 8.00 0 0 0 0 105 0 6.2 34.0 114.0 1.1 45.4 12.2 996 8.00 0 0 0 0 105 0 1.7 25.0 114.0 0.8 33.9 11.7 238 0.00 0 0 0 0 139 5.4 21.5 57 0.7 28.5 6.4 877 8 0 0 0 36 85.5 85.5 85.5 86.4 877 86.0 87 86.0 87 86.0 87 86.0 87 86.0 87 86.0 87 86.0 87 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 96.0															
0 4.5 9.0 0.0 0.3 11.5 0.5 758 8.00 0 0 0 0 -34 0 6.2 34.0 114.0 1.1 45.4 12.2 996 8.00 0 0 0 0 105 0 1.7 25.0 114.0 0.8 33.9 11.7 238 0.00 0 0 0 0 139 5.4 21.5 57 0.7 28.5 6.4 877 8 0 0 0 36					0						85.5				75% tile
0 4.5 9.0 0.0 0.3 11.5 0.5 758 8.00 0 0 0 0 0 105 0 6.2 34.0 114.0 1.1 45.4 12.2 996 8.00 0 0 0 0 0 105 0 1.7 25.0 114.0 0.8 33.9 11.7 238 0.00 0 0 0 0 36 6.4 21.5 57 0.7 28.5 6.4 877 8 0 0 0 36					>				1	1	3	F1.0	4.0		AVERAGE
0 4.5 9.0 0.0 0.3 11.5 0.5 758 8.00 0 0 0 0 0 105 0 6.2 34.0 114.0 1.1 45.4 12.2 996 8.00 0 0 0 0 105 0 1.7 25.0 114.0 0.8 33.9 11.7 238 0.00 0 0 0 36		00	<	0	c	8	877	6.4	28.5	0.7	57	24 5	5 4		MEDACE
0 4.5 9.0 0.0 0.3 11.5 0.5 758 8.00 0 0 0 34 0 6.2 34.0 114.0 1.1 45.4 12.2 996 8.00 0 0 0 105 0 6.7 75 0 114.0 0.8 33.9 11.7 238 0.00 0 0 0 139	-36	36	0	0	,	1			00.0	0.0	111.0	20.0	1.1	c	Kange
0 4.5 9.0 0.0 0.3 11.5 0.5 758 8.00 0 0 0 0 105 0 6.2 34.0 114.0 1.1 45.4 12.2 996 8.00 0 0 0 105	100	108	0	c	0	0.00	238	117	339	0 8	1110	300	4 7	0	3
0 4.5 9.0 0.0 0.3 11.5 0.5 758 8.00 0 0 0 -34	430	430	,	,	-	0,00	900	1.7	40.4	1.1	114.0	34.0	6.2	0	Max.
0 4.5 9.0 0.0 0.3 11.5 0.5 758 8.00 0 0 0 34	24	COL	C	0	0	8 00	900	100	15.1	4	444		3	,	
20 20 445 05 758 800 0 0 0 34	34	405	,			0.00	100	0.0	11.0	0.0	0.0	9.0	4.5	0	Min.
	col-	-34	0	0	0	8 00	759	200	44 6	0		,			

2/3/98	12/29/97	11/13/97	9/22/97	9/4/97	7/10/97	6/10/97	3/21/97	1/6/97	11/26/96	10/24/96	9/18/96	8/29/96	7/31/96	6/27/96	6/11/96	4/18/96	3/27/96	2/22/96	11/20/95	9/12/95	7/27/95	7/17/95	6/29/95	5/16/95	10/12/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
84					1	20	130			70		25	65	59	68					8						(gpm)	Flow	70	59	122	130	8
3.8	3.9	4.1	3.7	3.6	3.4	3.5	3.6	3.8	3.9	3.7	3.6	3.6	3.4	3.6	3.5	3.6	3.6	3.9	3.9	3.4	3.3	3.3	3.6	3.6	3.5	рН	Lab.		3.6	0.8	4.1	3.3
0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	mg/L	Alk.		0.1	3.6	3.6	0.0
102.0	86.0	44.0	94.0	248.0	186.0	138.0	150.0	94.0	86.0	114.0	72.0	146.0	74.0	128.0	192.0	148.0	150.0	52.0	40.0	234.0	208.0	154.0	122.0	128.0	126.0	mg/L	Acidity	150.0	127.5	208.0	248.0	40.0
4.0			1.0	35.8	2.5	1.3	2.1	1.4	1.0		0.7			1.3	1.9	1.3	1.5	0.6	0.4	1.7	2.3	2.0	1.7	1.4	1.6	mg/L	Iron		3.2	35.4	35.8	0.4
35.0			27.6	86.0	55.0	38.6	45.1	32.2	22.0		17.4			42.0	72.2	47.4	49.7	23.1	18.0	77.2	68.6	44.1	47.6	39.5	53.1	mg/L	Mang.		44.8	9.89	0.98	17.4
1.7		1	2.4	8.1	2.7	2.4	3.0	3.3	3.2		2.0			3.4	3.8	4.1	3.6	2.5	2.9	4.4	3.2	2.8	3.0	2.8	4.0	mg/L	AL.		3.3	6.4	8.1	1.7
723	890	208	586	1100	950	654	903	655	465	288	332	640	826	720	894	908	849	354	336	1373	1087	710	633	556	760	mg/L	Sulfate		708	1165	1373	208
3			<3	228	4	3	3	3	<3		<3			ယ	2	3	3	3	3	6	3		16	4	3	mg/L	Susp.S.		22	226.00	228.00	2.00
103	0	0	0	0	0	33	234	0	0	96		44	58	. 91	157					23						lb/day	Acid Load	92	52	234	234	0
4						0	3	0	0					1	2					0						lb/day	Iron Load		_	4	4	0
2						1	5	0	0					2	ယ					0						lb/day	Al.load		2	5	5	0
102	86	40	94	248	186	138	150	94	86	114	72	146	74	128	192	148	150	52	40	234	208	154	122	128	126	mg/L	Net Acid		127	208	248	40
-102	-86	40	-94	-248	-186	-138	-150	-94	-86	-114	-72	-146	-74	-128	-192	-148	-150	-52	40	-234	-208	-154	-122	-128	-126	mg/L	Net Alk		-127	208	40	-248

29 ABEL / DRESHMAN TRIB.

7/10/97	6/10/97	3/21/97	1/6/97	11/26/96	10/24/96	9/18/96	8/29/96	7/31/96	6/27/96	5/30/96	4/18/96	3/27/96	2/22/96	11/20/95	7/27/95	6/29/95	5/16/95	10/12/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
97	97	97	7	96	96	96	96	96	96	96	96	96	96	95	95)5)5	94	-		le	GE	е		
																			(gpm)	Flow			0	0	0
3.8	4.3	4.1	4.7	5.1	5.0	5.5	4.2	3.7	4.5	3.8	4.3	4.2	4.9	5.5	3.7	4.8	4.5	6.3	рН	Lab.	L	4.6	2.6	6.3	3.7
0.0	5.2	4.4	8.8	10.0	8.4	8.4	5.8	0.0	6.8	0.0	5.4	4.6	6.8	8.6	0.0	10.4	6.8	26.0	mg/L	Alk.		6.7	26.0	26.0	0.0
102.8	40.0	54.0	26.0	30.0	12.6	12.8	70.0	98.0	28.0	82.0	52.0	58.0	7.2	11.6	112.0	26.0	44.0	0.0	mg/L	Acidity	64.0	45.6	112.0	112.0	0.0
0.9	0.9	2.3	0.6	0.8	0.3	0.6	0.7	1.1	0.5	1.0	0.6	0.6	0.5	0.3	1.4	0.3	0.8	0.3	mg/L	Iron		0.8	2.0	2.3	0.3
11.7	11.7	16.5	10.7	8.1	8.8	4.2	20.0	29.7	12.4	27.2	16.7	16.1	4.8	4.2	39.6	8.0	10.8	0.1	mg/L	Mang.		13.8	39.5	39.6	0.1
1.1	1.1	1.9	1.2	1.4	0.7	0.7	1.9	2.3	1.2	1.8	1.5	1.3	0.7	0.7	1.8	3.0	0.9	0.5	mg/L	AL.		1.3	2.5	3.0	0.5
556	236	367	174	134	136	94	360	526	187	432	301	239	85	83	674	274	152	109	mg/L	Sulfate		269	591	674	83
4	<3	8	\$	4	4	12	6	6	3	3	3	3	16	3	3	4	16	u	mg/L	Susp.S.		6	13.00	16.00	3.00
																			lb/day	Acid Load			0	0	0
																			lb/day	Iron Load			0	0	0
																			lb/day	Al.load			0	0	0
103	35	50	17	20	4	4	64	98	21	82	47	53	0	သ	112	16	37	-26	mg/L	Net Acid		39	138	112	-26
-103	-35	-50	-17	-20	4	4	-84	-98	-21	-82	-47	-53	0	ن	-112	-16	-37	26	mg/L	Net Alk		-39	138	26	-112

30 SEATON TRIB. BELOW SMITH ROAD

32 CONFLUENT ABEL / DRESHMAN AND DESALE TRIB.

1/7/98	10/9/97	8/12/97	6/10/97	3/21/97	1/6/97	11/26/96	10/24/96	9/18/96	6/27/96	5/30/96	4/18/96	3/27/96	2/22/96	11/20/95	9/12/95	6/29/95	10/12/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
																		(gpm)	Flow			0	0	0
3.7	3.6	3.6	3.5	3.7	3.9	4.1	3.8	4.0	6.1	3.5	3.7	3.6	4.0	4.0	3.9	3.7	3.7	PН	Lab.		3.9	2.6	6.1	3.5
0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	1.8	11.2	0.0	0.0	0.0	2.0	2.4	0.0	0.0	0.0	mg/L	Alk.		1.2	11.2	11.2	0.0
158.0	238.0	294.0	246.0	182.0	132.0	92.0	120.0	114.0	9.4	230.0	172.0	188.0	74.0	92.0	290.0	160.0	232.0	mg/L	Acidity	231.5	168.0	284.6	294.0	9.4
6.5	4.9	6.2	5.3	5.5	3.8	3.4	3.0	2.1	0.3	5.1	3.7	5.2	2.5	3.9	3.7	2.6	4.9	mg/L	Iron		4.0	6.2	6.5	0.3
30.2	43.7	55.0	38.9	30.9	24.5	15.8	30.6	20.4	7.4	42.7	30.1	33.4	16.9	22.5	59.4	34.2	57.2	mg/L	Mang.		33.0	52.0	59.4	7.4
12.7	16.9	20.6	15.3	13.4	10.3	6.1	12.3	7.9	0.5	17.4	12.8	14.8	7.8	9.5	22.0	13.8	23.2	mg/L	AL.		13.2	22.7	23.2	0.5
631	1011	1326	961	910	600	398	762	469	191	971	785	790	374	468	1635	817	367	mg/L	Sulfate		748	1444	1635	191
34	<3	4	<3	8	<3	^3	۵	3	3	3	15	3	3	6	8	18	3	mg/L	_		8	31.00	34.00	3.00
																		lb/day	Susp.S. Acid Load			0	0	0
																		lb/day	Iron Load			0	0	0
																		lb/day	Al.load			0	0	0
158	238	294	246	182	132	88	120	112	-2	230	172	188	72	90	290	160	232	mg/L	Net Acid		167	296	294	'n
-158	-238	-294	-246	-182	-132	-88	-120	-112	2	-230	-172	-188	-72	-90	-290	-160	-232	mg/L	Net Alk		-167	296	2	-294

6/27/96	5/30/96	4/18/96	3/27/96	2/22/96	11/20/95	7/27/95	7/17/95	6/29/95	5/16/95	10/12/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
											(gpm)	Flow	#NUM!	#DIV/01	0	0	0
3.7	5.4	5.5	4.9	5.2	6.1	6.5	S1	5.7	4.8	6.1	뫄	Lab.		5.4	2.8	6.5	3.7
0	9.8	8.2	6.6	7.2	1	28	8	10.6	8.6	13.2	mg/L	Alk.		10.1	28.0	28.0	0.0
194	34	24	40	7.6	8.8	0	40	9.2	38	0	mg/L	Acidity	39.0	36	194.0	194.0	0.0
	0.3	0.3	0.3	0.6	0.3	0.3	0.4	0.4	0.3	0.3	mg/L	Iron		0.4	0.3	0.6	0.3
	15.6	9.9	11.2	3.9	3.2	0.1	0.2	8.4	5.5	12.0	mg/L	Mang.		7.0	15.5	15.6	0.1
	1.16	1.1	1.25	0.9	0.5	0.5	0.81	0.54	1.52	0.5	mg/L	AL.		0.9	1.0	1.5	0.5
866	306	218	254	102	106	180	300	174	184	218	mg/L	Sulfate		264	764	866	102
w	3	3	3	10	3	3		12	3	3	mg/L	Susp.S.		5	9.00	12.00	3.00
											lb/day	Acid Load	0	0	0	0	0
											lb/day	Iron Load		0	0	0	0
											lb/day	Al.load		0	0	0	0
194	24	16	33	0	-2	-28	32	7	29	-13	mg/L	Net Acid		6	222	194	-28
-194	-24	-16	33	0	2	28	-32	_	-29	13	mg/L	Net Alk		6	222	28	-194

33 ABEL / DRESHMAN TRIB. BEFORE CONFLUENT WITH DESALE TRIB.

34 QUARTER MILE UPSTREAM FIRST NORTH TRIB. BELOW MCJUNCTION RD. BRIDGE STREAM CROSSING

6/18/96	5/9/96	4/30/96	3/13/96	2/22/96	11/15/95	10/12/95	9/12/95	6/29/95	10/12/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
				50	40					(gpm)	Flow	48	45	10	50	40
6.4	6.5	4.8	6.1	6.1	6	6.3	6.2	6.3	6.4	PΗ	Lab.		6.1	1.7	6.5	4.8
38	18	7.2	13.6	11.8	16.8	28	30	22	38	mg/L	Alk.		22.3	30.8	38.0	7.2
12.2	0	26	24	0	0.6	20	36	0.6	0	mg/L	Acidity	23.0	12	36.0	36.0	0.0
5.78	0.3	2.69	0.3	0.61	0.3	0.8	0.58	0.31	0.35	mg/L	Iron		1.2	5.5	5.8	0.3
7.66	3.06	7.85	3.19	1.98	4.9	22.8	21	4.16	11.5	mg/L	Mang.		8.8	20.8	22.8	2.0
2.85	0.5	3.61	0.5	0.5	0.5	0.5	0.5	0.5	0.5	mg/L	AL.		1.0	3.1	3.6	0.5
477	235	210	207	134	323	937	909	292	641	mg/L	Sulfate		437	803	937	134
130	ω	24	10	ယ	ယ	ယ	6	12	3	mg/L	Sulfate Susp.S.		20	127.00	130.00	3.00
0	0	0	0	0	0	0	0	0	0	lb/day	Acid Load	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	lb/day	Iron Load		0	0	0	0
0	0	0	0	0	0	0	0	0	0	lb/day	Al.load		0	0	0	0
-26	-18	19	10	-12	-16	8	6	-21	-38	mg/L	Net Acid		-10	57	19	-38
26	18	-19	-10	12	16	8	6	21	38	mg/L	Net Alk		10	57	38	-19

40
LUCAS
SITE
TRIB.
AT
GOFF
ROAD
AD

-56	-161	-82	-90	-97	8	-89	-179	-109	-91	-177	181-	-101	-37	-109	-24	-89	-105	-149	-174	-168	mg/L	Net Alk		-111	173	-24	101
56	161	82	90	91	50	89	179	109	91	177	197	101	37	109	24	88	105	149	174	168	mg/L	Net Acid		111	173	197	4.4
21										7			5	8	4	4	0				lb/day	Al.load		7	21	21	
													0	0	0	0	0				lb/day	Iron Load		0	0	0	•
192										88			42	112	29	47	4				lb/day	Acid Load	100	74	188	192	4
۵	3	3	3	۵	26	۵	12	3	<3	8	4	3	အ	3	ဒ	22	14	အ	26	3	mg/L	Susp.S.		10	23.00	26.00	3.00
300	746	300	364	359	221	375	618	450	277	674	665	317	249	302	200	379	484	559	546	747	mg/L	Sulfate		435	547	747	200
7.1	13.8	5.7	8.0	8.0	4.3	7.5	13.7	8.8	5.6	14.3	12.7	5.8	4.7	7.8	3.9	7.9	7.9	9.9	12.9	15.6	mg/L	AL.		8.9	11.7	15.6	3.9
20.5	47.9	17.2	20.7	22.7	12.3	21.4	43.5	32.1	21.3	43.7	40.3	16.6	14.1	21.5	10.7	26.8	33.1	41.6	40.0	59.0	mg/L	Mang.		28.9	48.3	59.0	10.7
<.30	<.30	<.30	<.30	<.30	<.30	<.30	<.30	<.30	<.30	<.30	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.8	0.5	0.3	mg/L	Iron		0.4	0.5	0.8	0.3
64.0	166.0	90.0	98.0	100.0	60.0	94.0	190.0	114.0	98.0	184.0	202.0	108.0	44.0	116.0	30.0	98.0	110.0	152.0	180.0	174.0	mg/L	Acidity	166.0	117.7	172.0	202.0	30.0
7.8	5.4	8.2	8.0	9.0	9.8	4.8	11.0	4.8	7.0	7.0	5.4	6.6	7.0	7.4	6.4	9.2	5.0	2.6	6.4	6.2	mg/L	Alk.		6.9	8.4	11.0	2.6
4.4	4.2	4.5	4.4	4.5	4.6	4.3	4.6	4.2	4.4	4.3	4.2	4.4	4.5	4.5	4.4	4.6	4.2	4.0	4.1	4.2	PH	Lab.		4.4	0.6	4.6	4.0
250		Ž								40			80	80	80	40	ω				(gpm)	Flow	80	82	247	250	ω
1/8/98	10/10/97	5/20/97	3/19/97	2/12/97	1/28/97	11/20/96	10/16/96	9/11/96	8/16/96	7/10/96	6/18/96	5/8/96	4/16/96	3/14/96	2/21/96	11/14/95	10/11/95	8/22/95	6/21/95	10/27/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.

41 NORTH TRIB. OF MAIN BRANCH ABOVE ARGENTINE

10/22/96	08/13/96	05/16/96	03/13/96	02/21/96	01/25/96	12/12/95	11/01/95	10/11/95	09/27/95	08/29/95	07/26/95	04/19/95	01/31/95	10/19/94	10/22/96	10/18/95	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
																	(gpm)	Flow	0		0	0	0
6.4	6.1	5.9	6.2	6.2	6.1	6	6.2	6.3	6.4	6.3	6.3	6.2	6.3	6.4	6.1	6	рН	Lab.		6.2	0.5	6.4	5.9
14.6	12	10.8	10.4	11.4	9	9.6	15.8	14.2	13.8	12.2	15.8	11.4	11.4	15.8	46	12	mg/L	Alk.		14.5	37.0	46.0	9.0
1.4	0.2	2.6	2	2.2	20	3.6	10.6	7.2	10.6	1.6	0	0.8	10.2	3.4	52	12.2	mg/L	Acidity Iron	10.6	8	52.0	52.0	0.0
0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.31	0.84	0.15	0.3	16.7	0.3	mg/L	Iron		1.3	16.6	16.7	0.2
0.05	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.02	0.05	1.01	2.63	mg/L	Mang.		0.3	2.6	2.6	0.0
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.55	0.14	0.5	0.5	0.5	mg/L	A.		0.5	0.4	0.6	0.1
20	20	20	20	20	21	34	20	33	22	20	20	20	15	20	158	278		Sulfate		45	263	278	15
u	6	ω	ω	w	12	4	3	26	w	ω	10	24	2	ω	4	18	mg/L	col		8	24.00	26.00	2.00
																	lb/day	Þ					
-																	Ib/day	=					
																	ib/day	-					
-10	71.	3 6	٥	. 4	3	6	. 6		ن د	s =	-16	-13	-	71-	5	, ,	mg/L	Al.load Net Acid Net Alk		7.	17	27	-16
10	4 5	3 0		0 0	-		0	, -	1 0	s =	10	40	4 -		à	, -	1/8/11	Net All			3 1	3 6	-17

10/22/06	08/13/96	05/16/96	03/13/96	02/21/96	01/25/96	12/12/95	11/01/95	10/11/95	09/27/95	08/29/95	07/26/95	04/19/95	01/31/95	10/19/94	Sampled	Date		75% tile	AVERAGE	Range	Max.	Min.
					P										(gpm)	HOW		0		0	0	0
6.4	6.4	6	6.2	6.2	6.1	6.1	6.3	6.3	6.4	6.4	6.2	6.2	6.3	6.4	PH	1-			6.3	0.4	6.4	6.0
172	17.2	12.4	11	11.2	10.2	13	18.4	16.4	15.4	15	16.6	12.4	12.6	17.4	mg/L	AIK.			14.4	8.2	18.4	10.2
0.4	0.4	0	4	2	3.8	1.8	11.6	8	10.6	1.8	0	0	12.4	4.4	mg/L	ACIOITY		6.2	4	12.4	12.4	0.0
0.3	0.3	0.3	0.3	0.67	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.63	0.12	0.3	mg/L		_		0.3	0.6	0.7	0.1
0.2	0.2	0.68	0.7	0.51	0.61	0.21	0.09	0.08	0.08	0.1	0.15	1.83	0.86	0.11	mg/L	Many.	Mana		0.4	1.8	1.8	0.1
0.5	0.5	0.5	0.5	0.56	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.14	0.5	119/1	1	2		0.5	0.4	0.6	0.1
44	44	48	55	33	50	54	71	76	70	73	84	73	64	47	1,8,11	mall	Culfato		99	57	84	33
3	3	C.	3	20	4		u	3	u	· cu	10	20	N		1,6,11	+	Susus		o	18.00	20.00	2.00
															100,000	5	Acid Load					
																\neg	d Iron Load					
																lb/day	Al.load					
-17	-11	41	3 -	7	0	b :	44	4 9	0 6	n -	43	47	3	0 -	43	mg/L	Net Acid			: سا	17	2
17	1	47	3	7		D :	4	1 0	» c	7 2	1 :	47	3 0	0 0	43	mg/L	Net Alk		1	ω:	17	17

42 UPSTREAM POINT MAIN BRANCH

43 MAIN BRANCH, ARGENTINE AT BRIDGE

5000	10/11/95 6.3 28 0	-	9.8	6 10.2 5.9 9.8	5.8 10.8 6 10.2 5.9 9.8	5.3 9.6 5.8 10.8 6 10.2 5.9 9.8	5.3 9.6 5.8 10.8 6 10.2 5.9 9.8	5.3 9.6 5.8 10.8 6 10.2 5.9 9.8
2/ /11	0 1.04		5.2 2.06	3.6 1.54 5.2 2.06				
1 36	0.6		1.3	1.3		+++		
0.64 122	0.5 128							3
3	3							
								lb/day lb/day
			1					ibiqay
25	2 1	-28		Ġ,	5 7	-5	-7 -7	14 14 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7
CZ-	35	28		51	5	5	-14	-14 -6 5

09/09/97	08/20/97	07/15/97	05/20/97	04/09/97	03/19/97	02/19/97	10/15/97	12/19/96	10/22/96	09/18/96	08/13/96	07/25/96	06/26/96	05/16/96	03/13/96	02/21/96	01/25/96	12/12/95	11/01/95	10/11/95	09/14/95	08/29/95	07/26/95	06/06/95	05/04/95	04/19/95	01/31/95	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
7	7	7	7	7)			7	5													450			6200					Flow	4763		5750	6200	450
6	6.1	6	6.1	6.1	5.8	6.1	6.2	6	6.2	6.2	6	5.8	6.2	5.8	6.1	5.8	5.9	6	6	6.1	6.1	6.2	6.1	6.3	6.3	6.2	6.3	рН	Lab.		6.1	0.50	6.30	5.80
18.2	18.6	17.6	13.4	13.8	11.6	14.6	19.6	13.4	14.6	12.4	14.8	14	12.6	11.8	11.8	9.4	9.8	14.8	15.6	17.4	19.4	18.4	15.8	12.2	14.8	13.2	22	mg/L	Alk.		14.8	12.60	22.00	9.40
12	7.4	0	3.6	10.2	9.4	4.4	5	3.8	6.6	9.6	3.6	7	4	1.2	24	6	4.4	8.4	24	14.8	10.2	5.2	4.4	4	22	3.4	7.4	mg/L	Acidity	10	8.1	24.00	24.00	0.00
2.3	1.8	1.2	1.0	1.2	0.6	1.1	2.2	0.8	0.8	0.9	2.0	1.6	1.0	0.6	0.7	1.1	0.7	1.9	2.5	2.6	1.5	2.1	1.8	1.2	1.3	1.3	0.8		Iron		1.4	2.0	2.6	0.6
1.0	1.4	0.9	1.2	1.7	1.9	1.7	1.1	1.6	0.8	0.8	1.0	1.2	1.0	1.2	1.4	1.3	1.3	6.0	1.0	1.1	0.9	0.8	1.1	1.0	1.0	0.9	1.6	mg/L	Mang.		1.2	1.1	1.9	0.8
<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	mg/L	AL.		0.5	0.4	0.6	0.1
123	113	101	65	89	85	111	121	89	65	50	108	101	73	70	79	51	100	113	152	143	120	121	103	61	76	47	107	mg/L	Sulfate		94	105	152	47
۵	<3	3	۵	۵	۵	۵	۵	6	۵	3	24	۵	3	ယ	ယ	13	10	w	အ	18	6	8	10	28	24	30	4	mg/L	Susp.S.		11	27.00	30.00	3.00
																					55			298				lb/day	Acid Load	237	177	243	298	55
																					8			89				lb/day	Iron Load		48	81	89	8
																					ယ			37				lb/day	Al.load		20	35	37	ယ
ե	-11	-18	-10	4	-2	-10	-15	-10	68	డు	-11	-7	-9	-11	12	ٺ	Ġ	გ	8	చ	-9	-13	-11	60	7	-10	-15	mg/L	Net Acid			30	12	-18
6	11	18	10	4	2	10	15	10	8	w	11	7	9	1	-12	cu	5	6	۵	w	9	13	1	8	-7	10	15	mg/L	Net Alk			30	18	-12

44 MAIN BRANCH ABOVE S.R.115 AND S.R114

45 BORELL TRIB. BEFORE MAIN BRANCH

Min. Max. Range AVERAGE

6.1

000

5.50 6.40 0.90

9.60 0.00 34.00 13.40 24.40 13.40 21.6 3.8

0.3 3.4 3.1

0.4 6.6 1.5

0.5

193 113

> 3.00 24.00 21.00

000

000

000

33 4 30

33 3

8

1/21/98	12/11/97	9/9/97	6/26/97	10/22/96	9/18/96	8/13/96	05/16/96	03/13/96	02/21/96	01/25/96	12/12/95	11/01/95	09/14/95	08/29/95	07/26/95	05/04/95	10/19/94	Sampled	Date	75% tile
																		(gpm)	Flow	
6.2	5.9	6.2	5.5	6.3	6.3	6.1	6	6.2	8	6.1	6.1	6.3	6.3	6.4	6.1	6.4	6.2	pН	Lab.	
22	18.4	28	9.6	18.8	16	22	17.4	18.8	11.6	15.4	24	30	30	28	22	22	34	mg/L	Alk.	
7.6	0	3.4	13.4	1.6	6.4	0	0	0	4.2	6	0.4	6.6	0.4	0	0	12.4	5.6	mg/L	Acidity	o
0.8	0.5	0.4	<.30	0.5	0.6	0.7	0.3	0.6	0.8	0.6	1.2	1.1	0.7	3.4	0.9	0.8	2.7	mg/L	Iron	
6.6	1.5	0.4	3.3	1.0	1:1	0.8	1.7	2.2	2.7	2.3	0.6	0.5	0.5	0.4	0.8	0.7	0.4	mg/L	Mang.	
<.50	<.50	<.50	<.50	<.50	<.50	<.50	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.5	0.5	0.5	mg/L	AL.	
193	98	101	191	96	68	113	92	97	78	120	132	138	107	107	115	85	113	mg/L	Sulfate	Ī
3	۵	۵	۵	۵	۵	24	u	cu	O.	10	w	u	12	6	C.	24	w	mg/L	Susp.S.	
																		lb/day	Acid Load	
			†															lb/day	Iron Load	
																		ib/day	Al.load	
-14	-18	CZ-	2 2	-11	47	40	3 -	-18	1	1 4	-24	2 6	3 6	-20	22-	3 -	-28	₩9/L	Net Acid	
14	10	400	36		47	10	3 =	47 0	3	1 4	24	20	33	30	38	3 2	20	ng/⊏	Net Alk	

10/01/97	07/24/97	06/26/97	02/25/97	11/21/96	05/02/95	11/01/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
							(gpm)	Flow			0	0	0
5.3	5.4	6.1	5.4	5.9	5.5	5.7	рН	Lab.		5.6	0.80	6.10	5.30
8.4	10.4	15.8	8.8	11.6	8.8	10.6	mg/L	Alk.		10.6	7.40	15.80	8.40
40	36	32	40	34	8	50	mg/L	Acidity	46	34.4	41.00	50.00	9.00
0.7	1.2	<.30	0.3	0.3	0.3	1.3	mg/L	Iron		0.7	1.0	1.3	0.3
13.9	13.7	14.2	14.3	15.1	5.3	0.5	mg/L	Mang.		11.0	14.6	15.1	0.5
0.6	0.8	<.50	<.50	<.50	0.5	1.0	mg/L	AL.		0.7	0.5	1.0	0.5
320	350	278	276	236	154	37	mg/L	Sulfate	F	236	313	350	37
80	4	۵	3	۵	8	16	mg/L	Susp.S.		8	12.00	16.00	4.00
							lb/day	Acid Load			0	0	0
							lb/day	Iron Load			0	0	0
							lb/day	Al.load			0	0	0
32	26	16	31	22	0	39	mg/L	Net Acid			39	39	0
-32	-26	-16	2	-22	0	-39	mg/L	Net Alk			39	0	39

45.1 UPSTREAM BORELL TRIB.

AVERAGE 09/14/95 10/11/95 11/02/95 12/12/95 01/25/96 02/21/96 03/13/96 05/16/96 07/25/96 08/13/96 12/19/96 02/19/97 03/19/97 07/15/97 07/26/95 06/06/95 05/04/95 01/31/95 75% tile Range 08/29/95 Sampled 05/20/97 09/18/96 04/09/97 10/23/96 08/19/97 Date Min. (gpm Flow 7500 6600 4200 5850 7500 900 5.90 6.70 0.80 6.3 6.5 10.80 52.00 41.20 15.6 17.6 18.4 18.6 20 40 48 Acidity 24.00 0.00 6.2 18.8 6 3.2 0 0 0 0 0 0 4.6 6.6 8.6 0000018 5.8 6.2 Iron 10.6 0.6 10.6 2.3 2.3 1.0 2.4 2.4 2.4 2.4 1.2 1.2 1.0 1.0 1.0 1.0 4.6 4.6 1.2 0.6 1.6 1.3 Mang. mg/L 1.9 1.4 1.5 1.5 1.9 1.1 1. mg/L 0.5 0.5 0.6 Sulfate 61 188 127 Susp.S. 3.00 46.00 43.00 mg/L ≥|3|0|0|0|0|0 0 6 0 0 6 0 4020 46 14 20000 9 w Acid Load 35 35 559 524 428 Iron Load Ib/day 178 178 Al.load lb/day 5 5 25 45 5 **Net Acid** mg/L 60 8 52 Net Alk mg/L 48 50 40 </tr 60 52 8

46 DOWNSTREAM FROM S.R. 114 S.R.115, MAIN BRANCH

Min.
Max.
Range
AVERAGE
75% tile

4.8 4.8

124.0 124.0 61.7 98.0

1.0

33.8 31.1 16.2

0.5 9.6 9.1 4.7

941 848 460

000

22.0 15.4 9.8

4.4

6.6

0.0

2.7

93

3.00 20.00 17.00

000

000

000

-22 114 136

-114 22 136

0.3

1/7/98	10/9/97	8/6/97	5/20/97	3/19/97	2/27/97	1/23/97	11/20/96	9/10/96	8/15/96	7/9/96	6/18/96	5/9/96	4/30/96	3/13/96	2/22/96	11/15/95	10/12/95	9/12/95	8/22/95	6/29/95	3/22/95	9/8/94	Sampled	Date
																							(gpm)	Flow
4.7	4.7	4.4	4.6	4.6	4.6	4.6	5.6	5.8	4.6	4.6	4.5	4.8	4.6	4.6	4.7	6.0	4.6	4.6	4.4	4.7	4.8	4.6	PH	Lab.
9.8	10.0	7.4	9.0	10.0	8.0	8.8	7.2	14.8	9.0	8.4	9.0	10.2	6.6	7.8	7.2	22.0	10.0	10.8	7.4	9.6	10.2	10.2	mg/L	Alk.
24.0	72.0	94.0	70.0	54.0	22.0	58.0	13.8	24.0	102.0	76.0	112.0	48.0	24.0	76.0	14.4	0.0	102.0	118.0	110.0	46.0	36.0	124.0	mg/L	Acidity
<.30	0.5	4.7	0.3	0.6	0.6	0.9	<.30	0.7	0.5	0.7	1.0	0.8	0.3	1.4	0.9	0.6	2.4	1.0	0.7	0.5	0.4	1.3	mg/L	Iron
12.0	18.3	26.6	14.5	11.7	7.9	11.0	4.6	8.0	20.0	21.6	22.8	12.2	7.3	13.0	8.3	2.7	33.8	33.2	29.8	14.6	12.8	26.6	mg/L	Mang.
3.6	4.1	8.0	4.1	4.3	2.2	3.6	1.3	0.9	5.8	7.1	7.7	3.9	1.8	4.7	3.3	0.5	9.6	8.4	8.1	4.3	3.5	8.2	mg/L	AL.
331	576	703	417	402	207	300	132	110	733	627	941	359	205	332	158	93	832	888	852	385	422	571	mg/L	Sulfate
۵	۵	12	۵	۵	4	20	۵	4	۵	6	ω	ω	ω	12	အ	6	8	8	16	6	ω	з	mg/L	Susp.S.
																							lb/day	Acid Load
																							lb/day	Iron Load
																							lb/day	Alload
14	62	87	61	4	14	49	7	9	93	67	103	38	17	68	7	-22	92	107	103	36	26	114	mg/L	Net Acid
44	62	-87	61	4	-14	49	-7	-9	-93	67	-103	38	.17	-68	.7	22	92	-107	-103	36	-26	-114	mg/L	Net Alk

1/21/98	12/11/97	10/15/97	09/09/97	08/19/97	07/15/97	05/20/97	04/09/97	03/19/97	12/19/96	10/23/96	09/18/96	08/13/96	06/26/96	05/16/96	03/13/96	02/21/96	01/25/96	12/12/95	11/02/95	10/18/95	09/14/95	08/29/95	07/26/95	06/06/95	05/04/95	01/31/95	10/27/94	Sampled	Date
																							135	5400				(gpm)	Flow
5.7	5.7	6.2	6.2	6.1	6.3	5.9	5.4	5.7	5.9	6.3	6	6.1	6.3	5.7	5.5	5.7	5.9	5.9	6	6	6.5	6.2	6.3	6.4	6.1	6	6.1	рН	Lab.
11.8	11.2	16.4	19	15.8	28	10.4	8.8	10	13.2	15.8	16.4	24	19.4	9.4	7.8	7.8	8.4	12.4	14.4	17.4	36	26	28	12.4	10.8	11.2	16.6	mg/L	Alk.
8.2	3	6.2	6.8	17.4	0	2	10	10.2	2.4	4	4.8	2	0	22	26	6.6	6	5.4	6.6	19.4	0	0	0	4	22	16.4	4.8	mg/L	Acidity
1.0	0.7	0.9	0.6	1.7	1.1	0.9	0.7	<.30	0.6	0.6	0.9	1.1	2.2	0.5	0.6	4.6	0.8	1.4	4.6	3.3	1.3	1.1	1.4	0.8	1.0	1.1	2.0	mg/L	Iron
1.4	0.6	2.7	4.8	3.7	2.9	1.1	1.8	0.5	0.4	0.5	0.4	2.1	0.9	0.3	0.5	7.0	0.3	1.3	2.0	2.3	2.1	1.4	1.5	0.2	0.7	0.7	1.8	mg/L	Mang.
<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	0.5	0.5	0.5	1.2	0.5	6.0	0.5	0.5	0.5	1.0	0.5	0.5	0.5	0.1	0.5	mg/L	AL.
95	57	192	244	171	189	78	134	52	50	71	47	132	89	49	60	46	46	123	136	237	208	235	110	48	101	76	150	mg/L	Sulfate
۵	۵	۵	<3	۵	۵	<3	<3	3	۵	4	8	14	3	ယ	ယ	44	10	သ	10	22	12	12	ယ	14	w	2	8	mg/L	Susp.S.
																							0	260				lb/day	Acid Load
																							2	51				lb/day	Iron Load
																							_	32				lb/day	Al.load
4	6	-10	-12	2	-28	Ь	_	0	-	-12	-12	-22				7	ż	-7	۵	2	.36	-26	-28	8	1	5	-12	mg/L	Net Acid
A	8	10	12	2	28	8	<u>۔</u>	0	1	12	12	22				_	2	7	8	-2	36	26	28	8		ራ	12	mg/L	Net Alk

				195					ľ	10			4084	75% tile
		17	26	130	10	115	0.5	1.4	1.4	7.7	15.7	6.0	2768	AVERAGE
47	47	32	48	260	42.00	198	1.0	4.5	4.1	26.00	28.20	1.10	5265	Range
36	11	32	51	260	44.00	244	1.2	4.8	4.6	26.00	36.00	6.50	5400	Max.
-11	-36	1	2	0	2.00	46	0.1	0.2	0.5	0.00	7.80	5.40	135	Min.

49 DOWNSTREAM PISOR TRIB. BEFORE MAIN BRANCH

50 PISOR TRIB. AT CULVERT

02/21/96	12/12/95	11/02/95	09/27/95	08/29/95	07/26/95	CRIMOICO	DEIDAIDE	02/09/95	01/31/95	08/23/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
											(gpm)	Flow			0	0	0
6	5.9	6.2	6.2	5.7	5.9	4.0	a S	6.2	6.1	6.1	먼	Lab.		6.1	0.5	6.2	5.7
9.8	10	22	13.8	9.4	11.6	11.4	111	11.8	11.4	13	mg/L	Alk.		12.4	12.6	22.0	9.4
5	7.4	0	15.6	6.4	2	2.2	23	S1	13.4	16.4	mg/L	Acidity Iron	15.1	9	22.0	22.0	0.0
1.89	0.3	0.3	0.34	0.26	0.7	1 6	0.3	0.3	0.1	0.48	mg/L	Iron		0.5	1.8	1.9	0.1
0.81	2.98	1.85	3.2	4.84	3.97	200	2 38	2.47	1.71	2.98	mg/L	Mang.		2.1	4.0	4.8	0.8
1.56	0.5	0.5	0.5	0.14	0.0	2	0.5	0.5	0.14	0.5	mg/L	AL.		0.0	1.4	1.6	0.1
68	197	191	285	2/5	777	200	136	142	123	198	mg/L	Sulfate		104	11.7	285	68
49	4	0	0				ယ	w	2	3	mg/L	Susp.S.		0	47.00	49.00	2.00
											lb/day	Sulfate Susp.S. Acid Load Iron Load			•		
											lb/day	Iron Load			c		
											lb/day	Al.load					
ė	. 6	77-	3	s 6	۵ ;	-10	11	-/		0	mg/L	Net Acid			ا ما	33	44
U	n c	2	33 1	5		10	-11	,	1 4	, 2	a'e	Net Alk			ω (33	22

51 TYREE TRIB. DOWNSTREAM

Min.

00 0

3.7 0.0 6.2 26.0 2.5 26.0 5.5 11.9

88.0 88.0 0.0

27 328 301 95

4.00 28.00 24.00

00 0

00 0

0 0

0

88 -26

-114 26

1.1

	1				4	30	0.6	0.15	1.1	26	8	5.5		03/13/96
-18	18				-	12	0.70	0.77	7.2	4.8	8.8	5.9		02/21/96
4	4				47	7	2		100	0.7	-	0.0		12/13/85
-	7-				8	36	0.65	0 29	2 58	0 4	44 6	70		2010
3	3				6	100	0.79	1.33	4.34	15.4	10.2	5.3		11/02/95
5	ח				=	ROL	2.43	2.06	13	52	7.8	4.6		10/18/95
4	44				4	400	0.00	0.00	12	00	0	3.1		09/27/95
-88	88				Δ	308	2 22	2 22	3	20	,	1		01120100
3	200				28	82	1.44	0.59	4.77	0	26	6.1		07/26/95
36	26				10	30	0.0	62.0	2.07	24	12.2	6.2		05/04/95
-12	2				40	30		2		0.0	100.00	4		CEIEDIZO
c	ò				4	41	0.55	0.46	3.08	6.8	122	a		20/00/02
7	,				4.7	61	0.5	0.98	6.57	5.8	22	6.2		10/26/94
16	-16				2	100	2		8	1,8	118111	110	(9011)	Sampled
11gill	mg/L	lb/day	lb/day	lb/day	mg/L	ma/L	ma/L	ma/L	ma/	mall	1/1000	2	(man)	
1400	INCL MOIN	Al.load	Iron Load	Sulfate Susp.S. Acid Load	Susp.S.	Sulfate	AL.	Mang.	Iron	Alk. Acidity Iron Mang.	Alk.	Lab.	Flow	Date
Not A	Not Acid Not Alk	1												
1										25.5				75% tile
					10	S. S.	7.2	1.0	5.1	23	11.9	5.5		AVERAGE
-	11				14.00	301	3.4	3.2	11.9	88.0	26.0	2.5	0	Range
114	114	0	0	0	34 00	304	2 6	0	10.0	00.0	20.0	2.0	0	Max.
100	00	•	_	0	28.00	328	39	2	120	0 00	200	-	,	

52 TRIB. TO PISOR AT MOUTH

03/13/96 5	02/21/96 5	11/02/95	10/18/95 5	09/27/95 6	07/26/95 6	05/04/95 6	10/27/94 6	Dampied (Spin)	(apm)	Date Flow La	+	+	AVERAGE #DIV/01 5.9	Range 0 1	Max. 0 6	Min. 0 5.0
5.7 8.4	5.8 7.6	5 9.2	5.7 14.6	6.2 32	6.2 28	6.2 11.4	6.3 22	_	I/ma/ Ha	Lab. Alk.		1	.9 16.7	1.3 24.4	6.3 32.0	.0 7.6
24	3.4	12	30	42	0	1 22	0	Т	ma/l	Acidity Iron Mang.	1010	25.5	17	42.0	42.0	0.0
0.3	0.36	1.78	8.15	19.8	3.03	0.81	3.34	9	ma/L	Iron			4.7	19.5	19.8	0.3
0.16	0.25	2.3	6.62	6.93	1.98	0.32	0.89		ma/L	Mang.			2.4	6.8	6.9	0.2
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0	ma/L	AL.			0.5	0.0	0.5	0.5
28	21	101	331	576	89	32	33		mg/L	Sulfate			151	555	576	27
3	w	10	14	22	8	18	6	,	mg/L	Sulfate Susp.S.			11	19.00	22.00	3.00
									lb/day	Acid Load		#NOM!	#DIV/0!	0	0	-
									lb/day	Iron Load			#DIV/0!	0	0	
									lb/day	Al.load			#DIV/01	0		
OI.	\$ 4	·	3 5	10	-20	30	22-	33	mg/L	Net Acid			-	44	10	40
-10	4 6	. 2	2 E	15	40	30 -	44	3	mg/L	Net Alk			0	44	20	20

53 PISOR TRIB. UPSTREAM

02/09/95	08/23/94	Sampled (g)	Date FI	9111 9/C	7E0/ 4110	AVERAGE	Range	Max.	Min.
		(gpm)	Flow				0	0	0
6.5	6.6	РН	Lab.			6.6	0.1	6.6	6.5
17.6	44	mg/L	Alk.			30.8	26.4	44.0	17.6
0	0	mg/L	Acidity	6.6	00	0	0.0	0.0	0.0
0.3	4.23	mg/L	Iron			2.3	3.9	4.2	0.3
0.05	0.23	mg/L	Mang.			0.1	0.2	0.2	0.1
0.5	1.79	mg/L	AL.			1.1	1.3	1.8	0.5
22	20	mg/L	Sulfate			21	2	22	20
6	24	mg/L	Sulfate Susp.S.			15	18,00	24.00	6.00
		lb/day	Acid Load Iron Load				0	0	0
		lb/day	Iron Load				0	0	0
		lb/day	Al.load				C	o	0
-18	44	mg/L	Net Acid			-37	26	-18	44
) a	44	mg/L	Net Alk			31	20	3 \$	10

54 TYREE TRIB UPSTREAM

					u	23	0.5	0.05	0.3	17.2	14.4	6.2		03/13/96
ادا					CL	24	0.61	0.08	0.78	0.4	12.6	6.2		02/21/96
12	-12						0.0		0.1	6	30	0.0		11/02/95
36	-36				10	37	202	2	40	9	30	3		0,10,00
2	-40				14	29	0.5	0.05	0.3	0	40	6.6		10/18/95
40	3				u	26	0.5	0.07	0.3	0	56	7.1		09/27/95
76	F.0				5	26	0.5	0.05	0.3	0	46	6.6		07/26/95
46	46					20	0.5	0.05	0.3	0	22	6.7		02/09/95
22	-22				3 2	2	0.0	0.00	0.3	0	34	6.7		10/26/94
34	34				40	2	3				0	7:	//R	Campion
ng/i	mg/L	lb/day	lb/day	lb/day	mg/L	mg/L	mg/L	mg/L	ma/L	ma/L	ma/L	P	(apm)	Sampled
Net All	Net Acid	Al.load	Iron Load	Sulfate Susp.S. Acid Load Iron Loa	Susp.S.	Sulfate	AL.	Mang.	iron	Acidity Iron	Alk.	Lab.	Flow	Date
										0,1				15% the
										0				750/ 4110
000	-300				9	26	0.5	0.1	0.4	2	32.6	6.6		AVERAGE
30 00	30	0	0	c	12.00	17	0.1	0.1	0.5	17.2	43.4	0.9	0	Range
D.	70				10.00	31	0.6	0.1	0.8	17.2	56.0	7.1	0	Max.
56		0			200				6.0	0.0	12.0	2.0	0	MIN.
2	-00-	0	0	0	3.00	20	0.5	0.4	0	00	200	6.3	0	

55 UPSTREAM HILLIARDS TRIB.

05/16/96	03/13/96	10/11/95	09/27/95	08/29/95	07/26/95	05/04/95	03/30/95	01/31/95	10/19/94	Sampled (gpm)	Date Flow	75% tile	AVERAGE	Range 0	Max. 0	MIN.
4.7	4.5	4.5	4.5	4.3	4.4	4.5	4.6	4.7	4.5) pH	Lab.		4.5	0.40	4.70	4.30
7.8	5.8	6.2	7	5.8	7	7.6	8	8.8	7.2	mg/L	Alk.		7.1	3.00	8.80	0.00
22	16.8	26	16.8	22	16.6	36	20	62	34	mg/L	Acidity	32	27.2	45.40	62.00	10.00
0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.3	mg/L	Iron		0.3	0.2	0.3	0.1
0.6	0.6	2.5	2.2	1.7	1.7	0.9	0.8	0.9	1.4	mg/L	Mang.		1.3	1.9	2.5	0.0
1.6	1.9	1.1	1.3	1.6	2.0	2.4	2.2	2.1	2.0	mg/L	AL.		1.8	1.3	2.4	
31	40	71	60	60	52	40	47	37	47	mg/L	Sulfate		49	40	71	01
ယ	3	3	4	w	3		3	2	3	mg/L	Susp.S.		3	2.00	4.00	2.00
										lb/day	Acid Load			0	0	-
										lb/day	Iron Load			0	0	•
										lb/day	Al.load			0	0	c
14	11	20	10	16	10	28	12	53	27	mg/L	Net Acid			44	53	7
-14	-11	-20	-10	-16	-10	-28	-12	-53	-27	mg/L	Net Alk			53	0	25

56 HILLIARDS TRIB. AT BRIDGE

0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.0 6.9 42.0 5.8 0.4 0.3 0.5 71 8.0 0.0 0.8 30.4 5.8 0.3 0.3 0.5 71 8.0 0.0 0.8 30.4 5.8 0.3 0.3 0.3 0.5 44 5.0 0.0		-				3	27	0.5	0.18	0.3	5.8	13	6.1		05/16/96
O	7						35	0.5	0.12	0.3	0	13.2	6.3		03/13/96
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0	ω	4				ی د	17	0.5	0.12	0.3	_	11.6	6.2		01/25/96
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0	_	4					30	0.0	0.1	0.3	0	19.6	6.3		12/12/95
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0	ا	2				D 0	04	0.5	0.34	0.41	0	32	6.4		11/02/95
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0		با				3 4	2	0.5	0.15	0.3	0	40	6.7		10/11/95
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0	٦,	4				4	63	0.5	0.11	0.3	0	42	6.9		09/27/95
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0	٦,	4				. 3	66	0.5	0.08	0.3	0	36	6.5		08/29/95
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0	٦.	4				ى د	33	0.5	0.15	0.3	0	32	6.6		07/26/95
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0	٦,	با				0	4/	0.5	0.23	0.3	0	17.6	6.7		05/04/95
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0 0 0 0 0 6.9 42.0 5.8 0.4 0.3 0.5 71 8.00 0 0 0 0 0 0.8 30.4 5.8 0.3 0.3 0.3 44 5.00 0 0 0 0 0 6.5 25.4 1 0.3 0.2 0.5 45 4 5.00 0 0 0 0 Flow Lab. Alk. Acidity Iron Mang. AL. Sulfate Susp.S. Acid Load Iron Load Al.load (gpm) pH mg/L mg/L mg/L mg/L mg/L mg/L mg/L lb/day Ib/day Ib/day 6.6 30 0 0.3 0.08 0.5 37 3 Usbas 1b/day Ib/day		-18				4	38	0.17	0.16	0.13	0	17.6	6.5		01/31/95
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0 0 0 0 0 0 0 0 0 0 0 0 6.9 42.0 5.8 0.4 0.3 0.5 71 8.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		18					3/	0.5	0.08	0.3	0	30	6.6		10/19/94
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-30	1	, or any	ib/day	1/6/11	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	РH	(gpm)	Sampled
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		/pm	lb/dav	lb/dav	lh/day	mal	1				, total	71111	1900	LIOW	Date
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0 0 0 0 6.9 42.0 5.8 0.4 0.3 0.5 71 8.00 0 0 0 0 0 0.8 30.4 5.8 0.3 0.3 0.3 44 5.00 0 0 0 0 6.5 25.4 1 0.3 0.2 0.5 45 4 0 0 0	Sid	Net A	Al.load	Iron Load	Acid Load	Susp.S.	Sulfate	P.	Mang.		Acidity	ΔIk	2	Elow	Data
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0 0 0 0 6.9 42.0 5.8 0.4 0.3 0.5 71 8.00 0 0 0 0 0 0.8 30.4 5.8 0.3 0.3 0.3 44 5.00 0 0 0 6.5 25.4 1 0.3 0.2 0.5 45 4											0.0				75% tile
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0 0 0 0 6.9 42.0 5.8 0.4 0.3 0.5 71 8.00 0 0 0 0 0.8 30.4 5.8 0.3 0.3 0.3 44 5.00 0 0 0		1				4	45	0.5	0.2	0.3	_	25.4	6.5		AVERAGE
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0 0 0 0 6.9 42.0 5.8 0.4 0.3 0.5 71 8.00 0 0 0		-25		,		0.00	44	0.3	0.3	0.3	5.8	30.4	0.8	0	Range
0 6.1 11.6 0.0 0.1 0.1 0.2 27 3.00 0 0 0		35	0	0		0.00	2	0.5	0.3	0.4	5.8	42.0	6.9	0	Max.
0 0 0 0 0 0 0		.7	0	0		9	!!	1	9.1		0.0	11.0	0.	0	Min.
		-42	0	0	0	3.00	27	0.0	2	2		440	2	,	

57 SOUTH TRIB TO HILLIARDS TRIB. AT HILLIARDS RD. BRIDGE

05/16/96	03/13/96	01/25/96		12/12/95	10/11/95	09/27/95	00120100	00/00/05	07/26/95	05/04/95	01101100	01/31/95	10/19/94	Sampled		Date		75% tile	AVERAGE	Range	Max.	IVIIII.	Min
														(gpin)	1	Flow				0	-	,	0
6.3	6.3	6.2	3	6.2	6.5	5.8		67	6.5	6.6		6.4	6.6	20	2	Lab.			6.5	0.6	0.0	0 0	6.2
14.8	12.8	77.0	440	17.4	34	32	3	30	28	16.2		15.4	26	1/8/11		Alk.			21.7	22.2	34.0	3	11.8
16.4	0	-	,	0	0	6	,	0	0	0	,	46	0	1/8/11	ma/l	Acidity Iron Mang.		0.0	6	46.0	40.0	160	0.0
0.3	0.3	0.0	2	0.3	0.3	0.0	3	0.3	0.3	0.0	3	0.06	0.3	1.8	mal	Iron			0.3	0.2	0.0	0 2	0.1
0.05	0.05	0.00	200	0.05	0.05	0.00	200	0.05	0.05	0.00	200	0.01	0.05	_	ma/	Mang.			0.0	0.0		0.4	0.0
0.5	0.5	0.0	20	0.5	0.5	0.0	2 2	0.5	0.5	0.0	200	0.14	0.5	9	ma/	AL.			0.5	0.4	2 000	2.0	0.1
20	28	2	27	30	42	4	An	35	26	100	27	25	24	Т	ma/L	Sulfate			29	22	3 1	42	20
3	0.3	2 1	32	3	4		a	ယ	ü	, ,	20	2	u	3 0	mg/L	Susp.S.			,	31.10	24 70	32.00	0.30
															lb/day	Acid Load Iron Load					0	0	0
															lb/day	Iron Load					0	0	0
															lb/day	Al.load					0	0	0
4	3	-13	-12	-17	47	-34	-32	-30	200	-28	-16	0	24	-26	mg/L	Net Acid				-16	65	31	-34
1	3	13	7.1	3 :	47	34	32	30	30	28	16	2	24	26	mg/L	Net Aik	NI A AIL			16	65	34	2

1/21/98	12/11/97	10/15/97	09/17/97	08/20/97	06/19/97	04/15/97	03/20/97	02/25/97	12/19/96	10/24/96	09/18/96	08/15/96	06/26/96	05/16/96	03/19/96	02/22/96	01/25/96	12/12/95	11/02/95	10/12/95	09/14/95	08/29/95	05/04/95	01/31/95	10/19/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
													I													(gpm)	Flow	#NUM!		0	0	0
5.7	5.8	3.80	3.70	4.40	5.60	5.80	6.00	5.90	5.60	6.10	5.90	5.30	6.20	5.50	5.30	6.30	6.10	6.00	4.10	3.30	4.80	3.00	6.60	6.40	6.40	РH	Lab.		5.4	3.60	6.60	3.00
14	15.4	0.00	0.00	5.80	8.60	12.20	11.80	11.80	9.60	16.40	15.00	9.20	15.20	10.20	8.40	12.00	11.60	13.40	3.80	0.00	7.80	0.00	18.20	16.00	19.80	mg/L	Alk.		10.2	19.80	19.80	0.00
2.2	5	36.00	48.00	24.00	7.20	5.20	2.40	6.20	4.20	0.00	5.80	13.00	24.00	30.00	10.00	12.00	0.00	7.80	22.00	84.00	12.20	150.00	0.00	4.60	7.80	mg/L	Acidity	24	20.1	150.00	150.00	0.00
0.9	0.9	4.4	6.6	3.6	1.7	1.2	< 30	0.5	1.0	0.9	1.0	2.9	0.8	0.9	0.9	0.6	0.5	1.4	4.8	12.3	0.8	24.4	0.4	0.2	0.6	mg/L	Iron		3.0	24.2	24.4	0.2
0.4	0.4	1.7	1.8	1.6	0.8	0.5	0.4	0.3	0.4	0.4	0.3	0.9	0.5	0.4	0.7	0.4	0.3	0.6	2.0	3.9	1.0	6.9	0.6	0.4	0.8	mg/L	Mang.		1.1	6.6	6.9	0.3
<.50	<.50	1.7	1.5	0.9	<.50	<.50	<.50	<.50	<.50	<.50	<.50	0.6	0.5	0.5	0.5	0.5	0.7	0.5	1.2	2.9	0.5	4.4	0.5	0.1	0.5	mg/L	AL.		1.1	4.3	4.4	0.1
50	57	207	200	139	71	55	40	53	52	57	42	129	55	72	67	34	38	100	136	197	256	343	47	45	91	mg/L	Sulfate		101	309	343	34
۵	۵	3	12.00	4.00	۵	10.00	6.00	۵	۵	۵	۵	۵	3.00	3.00	3.00	3.00	6.00	4.00	4.00	38.00	3.00	22.00	12.00	2.00	3.00	mg/L	Susp.S.		8	36.00	38.00	2.00
			IT																							lb/day	Acid Load			0	0	0
																										lb/day	Iron Load			0	0	0
																										lb/day	Al.load			0	0	0
-12	-10	36	48	18	<u>-</u>	-7	-9	-6-	6	-16	-9	4	9	20	2	0	-12	6	18	84	4	150	-18	-11	-12	mg/L	Net Acid			168	150	-18
12	10	-36	48	-18	_	7	9	6	5	16	9	4	-9	-20	-2	0	12	6	-18	-84	4	-150	18	11	12	mg/L	Net Alk			168	18	-100

58 DOWNSTREAM HILLIARD TRIB. BEFORE MAIN BRANCH

1/21/98	12/11/97	10/15/97	09/17/97	08/20/97	06/19/97	04/15/97	03/20/97	02/25/97	12/19/96	10/24/96	09/18/96	08/15/96	06/26/96	05/16/96	03/19/96	02/22/96	01/25/96	12/12/95	11/02/95	10/12/95	09/14/95	08/29/95	05/04/95	01/31/95	10/19/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
													I													(gpm)	Flow	#NUM!		0	0	0
5.7	5.8	3.80	3.70	4.40	5.60	5.80	6.00	5.90	5.60	6.10	5.90	5.30	6.20	5.50	5.30	6.30	6.10	6.00	4.10	3.30	4.80	3.00	6.60	6.40	6.40	РH	Lab.		5.4	3.60	6.60	3.00
14	15.4	0.00	0.00	5.80	8.60	12.20	11.80	11.80	9.60	16.40	15.00	9.20	15.20	10.20	8.40	12.00	11.60	13.40	3.80	0.00	7.80	0.00	18.20	16.00	19.80	mg/L	Alk.		10.2	19.80	19.80	0.00
2.2	5	36.00	48.00	24.00	7.20	5.20	2.40	6.20	4.20	0.00	5.80	13.00	24.00	30.00	10.00	12.00	0.00	7.80	22.00	84.00	12.20	150.00	0.00	4.60	7.80	mg/L	Acidity	24	20.1	150.00	150.00	0.00
0.9	0.9	4.4	6.6	3.6	1.7	1.2	< 30	0.5	1.0	0.9	1.0	2.9	0.8	0.9	0.9	0.6	0.5	1.4	4.8	12.3	0.8	24.4	0.4	0.2	0.6	mg/L	Iron		3.0	24.2	24.4	0.2
0.4	0.4	1.7	1.8	1.6	0.8	0.5	0.4	0.3	0.4	0.4	0.3	0.9	0.5	0.4	0.7	0.4	0.3	0.6	2.0	3.9	1.0	6.9	0.6	0.4	0.8	mg/L	Mang.		1.1	6.6	6.9	0.3
<.50	<.50	1.7	1.5	0.9	<.50	<.50	<.50	<.50	<.50	<.50	<.50	0.6	0.5	0.5	0.5	0.5	0.7	0.5	1.2	2.9	0.5	4.4	0.5	0.1	0.5	mg/L	AL.		1.1	4.3	4.4	0.1
50	57	207	200	139	71	55	40	53	52	57	42	129	55	72	67	34	38	100	136	197	256	343	47	45	91	mg/L	Sulfate		101	309	343	34
۵	۵	3	12.00	4.00	۵	10.00	6.00	۵	۵	۵	۵	۵	3.00	3.00	3.00	3.00	6.00	4.00	4.00	38.00	3.00	22.00	12.00	2.00	3.00	mg/L	Susp.S.		8	36.00	38.00	2.00
			IT																							lb/day	Acid Load			0	0	0
																										lb/day	Iron Load			0	0	0
																										lb/day	Al.load			0	0	0
-12	-10	36	48	18	<u>-</u>	-7	-9	-60	6	-16	-9	4	9	20	2	0	-12	6	18	84	4	150	-18	-11	-12	mg/L	Net Acid			168	150	-18
12	10	-36	48	-18	_	7	9	6	5	16	9	4	-9	-20	-2	0	12	6	-18	-84	4	-150	18	11	12	mg/L	Net Alk			168	18	-100

58 DOWNSTREAM HILLIARD TRIB. BEFORE MAIN BRANCH

18/01/01	40/45/07	09/09/97	08/19/97	07/15/97	06/25/97	05/21/97	04/09/9/	16/61/50	02/40/07	02/10/07	12/10/06	10/23/08	09/18/98	08/13/06	07/25/98	08/28/98	05/16/96	03/19/96	03/13/96	02/21/96	01/25/96	12/12/95	11/02/95	10/18/95	09/14/95	08/29/95	07/26/95	05/04/95	01/31/95	PA/A1/01	Sampled	Date
																									690		1035				(gpm)	
6.7	0.0	0.0	8 7	6.5	6.3	6.3	6.3	0	0.1	0.1	0.4	0.0	7.0	0.1	0 0	2 0	70	2	6.1	9	6.1	6.2	6.3	6.3	6.5	6.7	6.2	6.3	6.2	6.3	PH	Lab.
44	40	40	38	45	26	20	19.2	13.4	17.4	1	20	30.0	30	36	30.6	2 2	1 2	46	146	10 4	10.2	26	22	36	46	48	24	15.6	15.4	20	mg/L	AIK.
0					0	0.6	7.2	5.2	7	0	7.0	10	1	0	00	2 4	24	3 4	2/0	80	6.4	0.6	0	0	0	0	1.4	22	12.4	15.2	mg/L	Acidity
1.3	0.1.0		3 -	4	1.3	1.0	1.4	0.7	7.4	2.8	8.0	0.8	2	8.0	2.4	3	1.1	3 10	3 0	2 5	0 9	1.9	9.1	2.0	0.7	0.7	2.6	3.6	3.1	4.5	mg/L	1
1.7	7.6	2.1	3.1	3	1.0	1.0	1.2	0.8	1.0	8.0	0.5	0.0	7.5	7.2	1.1	0.7	2.0	0.0	0.0	40	0.7	1.2	2.0	1.8	1.8	1.4	1.8	0.9	1.0	1.5	mg/L	Mang.
<.50	<.50	<.50	1.50	7 50	^50	<.50	<.50	<.50	<.50	<.50	<.50	×.50	<.50	<.50	0.5	0.0	0.0	0.0	0.0	0 0	0 7	0.5	1.0	0.5	0.5	0.5	0.5	0.5	0.2	0.5	mg/L	AL.
169	187	CCL	101	404	107	103	117	61	113	96	88	5/	133	118	88	6	18	202	3 0	-	24	137	156	186	157	148	117	101	102	134	mg/L	Sulfate
۵	۵	۵	2	3 6	3	۵	۵	22	6	14	۵	۵	10	8	ω	u			87	3 5	40	10	34	22	6	ω	ω	16	2	ယ	mg/L	Susp.S.
0	0	0	0		0	0	0	0	0	0	0	0	0	0										1	0		17				lb/day	Acid Load
0	0	0	0		0	0	0	0	0	0	0	0	0	0											S)		32					Iron Load
																								1	4		20				lb/day	Al.load
	48	-38	40	-26	-18		-13	ტ	-15	-17	-12	-11	-36	-32	20	10	4	9	4	4	-22-	77-	-50	30	AG	48	3	6	۵,	6	mg/L	Net Acid
1	48.00	00.88	40.00	26.00	19.40	12.00	43 33	8.20	15.40	17.00	12.40	10.60	36.00	32.00	-19.80	-9.60	4.00	-9.40	4.20	3.80	25.40	22.00	30.00	40.00	10.00	48 00	22.60	A 40	300	4.80	mg/L	Net Alk

				0						1			242	2000
		C	P	-	1				1	1			040	750/ 4:10
		2	3	_	3	115	0.5	1.2	2.0	6.6		6.2	863	AVERAGE
67.80	00		70		00.00	.00	1				- 1	2	200	VED A OF
	3	3	3	47	32 00	130	0.9	1.6	8.4	38.00	37.80	0.90	345	Kange
48.00	20	6	20	-	O-7.00				1				2	
	3	1	3	47	34 00	187	3	2.1	9	38.00		6.70	CEOL	Max.
-19.80	48	4	0	0	2.00	70	0.2	0.0	0.1	0.00		0.00	1000	
					200	Pag.	000	2	2 4	200	10 20	780	690	3

59 MAIN BRANCH BELOW HIGGINS ROAD BRIDGE

59 MAIN BRANCH BELOW HIGGINS ROAD BRIDGE

-20 20	0	0	۵	133	<.50	1.7	7.5	1	77	2.0	14.11.00
	-							,	3	ده	/24/08
200	0	0	3	68	<.50	0.5	0.9	4.2	0.71	0.0	1011101

JEJELOT	18/61/01	40/46/07	9/17/97	8/20/97	6/19/97	4/15/97	3/20/97	3/12/97	2/25/97	12/19/96	10/24/96	9/18/96	8/15/96	7/25/96	08/26/96	05/16/96	03/19/96	02/22/96	01/25/96	12/12/95	11/02/95	10/12/95	01/00/00	98/67/80	56/90/90	05/04/95	04/11/95	01/31/95	10/19/94	Sampled	Date	10%	75% tile	AVERAGE	Max.	Min.
	/60	700																							14300					(gpm)	Flow	10010	10015	7530	14300	760
5.6	6.2	30	0.0	מ	5.9	6.1	5.7	6.1	5.9	5.9	6.3	5.8	6	5.9	5.8	5.8	6	5.7	5.5	6	6	6	6.2	5.8	6	6.1	5.9	5.6	5.5	PН	Lab.		9.0	1.00	6.30	5.30
11	17.4	0.01	0.0	9 3	144	14	10.2	11.4	11	11.2	16.6	11.4	20	15	10	10.2	11.4	8	7.6	16	11.6	12.6	14	9.2	10.2	11	9.2	10.6	10.4	mg/L	Alk.		7.71	12.40	20.00	7.60
5.2	_	6.8	6	40	3	2	4.2	4	5.2	8.2	0	7.4	0	0	16.6	28		18.4	6.6	8.2	3	0	12	10	4.4	24	12.2	17	17	mg/L	Acidity	7.7	8.5	28.00	28.00	0.00
0.6	0.8	0.7	2.7	3 -	10	0.5	0.3	0.4	0.7	0.7	1.2	8.0	0.7	0.6	1.2	0.7	1.6	0.8	0.4	1.4	1.2	0.7	0.7	0.7	0.6	1.3	1.1	2.8	0.6	mg/L	Iron		0.9	2.5	2.8	0.3
0.6	0.5	0.9	7.5	4.	0.0	0.8	0.7	0.8	0.7	0.7	0.6	0.4	0.3	0.4	0.7	0.6	0.9	0.8	0.5	1.0	1.4	1.2	0.9	0.9	0.4	0.8	0.5	1.0	0.8	mg/L	Mang.		0.8	1.2	1.5	0.3
<.50	<.50	<.50	<.50	\.00.	1.00	C 80	^ 50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.1	0.5	mg/L	AL.		0.5	0.4	0.5	0.1
64	190	187	182	801	10	70	9 3	75	87	91	236	61	146	134	81	102	98	51	54	164	199	218	224	203	59	96	66	94	143	mg/L	Sulfate		123	185	236	51
۵	3	3	۵	۵	5	3	2	۵	6	۵	6	۵	۵ !	24	3.00	3.00	3.00	3.00	3.00	20.00	3.00	24.00	3.00	3.00	16.00	18.00	12.00	8.00	3.00	_	Susp.S.		9	21.00	24.00	3.00
	9																								756				0	\rightarrow	Acid Load	383	255	756	756	0
	7																								107				0	-	Iron I oad		38	107	107	0
																									86			,	0	lb/dav	Al load		43	86	86	0
0	-16	-10	7	-12	-12	ь		1 9		3 -17	47	-20	30 -10	17	7	40	2	40	4	0	0	112	-5	٠,	ь i	13	۵ د		7,8,	mo/l	Not Asid			38	18	-20
9	200	10	-7	12	12	6	1	0	, ,	, =	44	07	20		-10	40	-10	-	. 0	0	0 2	2	3		n :	1 6	الم الم		7,R	Met Alk	NICK AIII			38	20	-120

60 MAIN BRANCH BEFORE HILLIARDS TRIB.

1/21/9
Č
5.9
14.8
6
:
1.4
<.50
124
<3
.0

60 MAIN BRANCH BEFORE HILLIARDS TRIB.

05/04/95 02/22/96 09/27/95 08/29/95 07/26/95 01/31/95 11/02/95 10/18/95 10/19/94 Sampled Date (gpm) Flow 2000 Lab. 6.4 рН 6.3 6.6 6.2 6.5 6.3 6.3 6.8 6.4 6.5 mg/L Alk. 18.6 10.2 15.6 15.6 15.6 11.8 15.8 11.6 26 17 13 Acidity Iron mg/L 5.8 7.4 2.8 0 0 0 0 0 0 mg/L 0.35 0.64 0.44 0.3 0.3 0.3 0.3 0.3 0.3 0.07 0.5 0.08 0.41 0.07 mg/L mg/L Mang. 0.06 0.09 0.06 0.05 0.05 0.14 0.06 0.05 0.5 0.5 0.5 0.5 AL. 0.5 0.5 0.2 0.5 0.5 0.5 Sulfate Susp.S. Acid Load Iron Load mg/L 28 23 25 25 28 20 37 43 47 48 32 mg/L 24 10 12 ယ w w w 4 w w w lb/day 67 lb/day 8 Al.load lb/day 12 **Net Acid** mg/L -1 -16 -19 -16 -16 6 20 -26 -9 Net Alk mg/L 6 20 6 26 = 19 6 16 9 ω 15

AVERAGE

2000

6.4

15.9

4

0.3

Max. Range

0

26.0 15.8

18.8

0.3

2 2

0.5

35 38 20

3.00 24.00 21.00

67 67

8

0 2 2

7 26

8

8

80

12

-12

12 33 26 7

0.5

0.6

0.1

Min.

2000

6.8

6.2

10.2

0.0

0.3

61 HIGGINS TRIB. UPSTREAM

75% tile

0

6.2

06/26/96	05/16/96	03/19/96	02/22/96	01/25/96	12/12/95	11/02/95	10/18/95	09/27/95	08/29/95	07/26/95	06/06/95	05/04/95	01/31/95	10/19/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
										120	2600				(gpm)	Flow	0	1360	2480	2600	120
5.9	5.7	5.8	6	5.9	5.7	6.3	3.9	3.6	3.5	5.4	6.2	6.1	6	5.9	모	Lab.		5.5	2.8	6.3	3.5
10.4	10	9.4	9.2	8.6	9.4	20	0	0	0	7.8	6	10.8	11	12	mg/L	Alk.		8.6	20.0	20.0	0.0
15	24	26	9.8	7.4	8.6	2	36	54	34	7.8	6.8	22	12.4	17.6	mg/L	Acidity	25.0	19	52.0	54.0	2.0
1.09	0.77	0.9	0.63	0.49	2.39	2.46	7.75	8.56	6.02	2.99	0.68	1.19	1.26	2.95	mg/L	Iron		2.7	8.1	8.6	0.5
0.53	0.47	0.49	0.3	0.3	0.75	0.48	1.39	1.53	1.5	0.71	0.35	0.52	0.38	0.82	mg/L	Mang.		0.7	1.2	1.5	0.3
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.54	0.5	0.19	0.5	0.5	0.5	0.19	0.5	mg/L	AL.		0.5	0.4	0.5	0.2
61	66	65	22	47	127	103	271	280	240	120	50	76	75	119	mg/L	Sulfate		115	258	280	22
ယ	3	3	9	3	3	8	34	3	20	8	10	6	4	အ	mg/L	Susp.S.		8	31.00	34.00	3.00
										11	213				lb/day	Acid Load	162	112	201	213	11
										4	21				lb/day	Iron Load		13	17	21	4
										_	16				lb/day	Al.load		8	15	16	1
5	14	17	خ	7	-	-18	36	54	34	0	မ	11	۵	6	mg/L	Net Acid		10	72	54	-18
ራ	-14	-17	7	_	_	18	-36	-54	-34	0	ယ	4	占	b	mg/L	Net Alk		-10	72	18	-54

Range AVERAGE

000

5.5

9.9

17.0

2.5

0.3 3.7 3.4

10

0.5 16.6 16.1

1.1

Max.

3.20 6.20 3.00

0.00 0.00 16.80 126.00 16.80 126.00

7.0

293 242

> 2.00 34.00 32.00

> > 00

000

00

-16 126 142

-1.44 109.40 110.84

0

0

51

12/11/97	12/04/97	10/08/97	09/17/97	08/20/97	06/19/97	04/15/97	03/20/97	03/12/97	02/25/97	12/19/96	10/24/96	09/18/96	08/15/96	07/25/96	06/26/96	03/19/96	02/22/96	01/25/96	12/12/95	11/02/95	10/12/95	09/14/95	08/29/95	05/04/95	01/31/95	10/19/94	Sampled	Date		75% tile	
																											(gpm)	Flow			
5.7	5.9	5.4	5.1	5.6	5.8	6.1	5.6	6	5.8	5.8	6.2	5.9	5.8	5.7	5.9	5.9	5.7	5.7	6	5.3	4.3	3.2	3.5	5.9	5.4	4.1	PН	Lab.			100
11.8	13.2	9.8	9	10.6	11.6	13.6	9.6	11	10.8	10.4	15.6	12	14.4	11.8	1	10.6	8.4	7.8	16.8	9	O1	0	0	10.4	10.4	3.8	mg/L	Alk.			
4.4	3.6	11.8	22	15	1.6	2.8	CT	4.2	6.2	9.4	0	5.4	3.8	2.8	15.6	30	19.2	6.8	10	10.2	34	126	40	24	10.8	34	mg/L	Acidity		21	
0.8	0.9	1.7	2.4	2.5	3.0	0.9	0.8	0.6	1.0	1.0	1.0	1.1	1.7	1.7	1.2	1.5	1.0	0.5	3.6	2.8	4.3	16.6	6.1	1.8	2.7	3.5	mg/L	Iron			10.0
0.5	0.7	1.0	1.2	1.5	0.8	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.6	0.6	0.7	0.9	0.8	0.5	0.9	1.6	1.8	7.0	2.1	0.7	0.9	1.2	mg/L	Mang.			
<.50	<.50	<.50	<.50	<.50	0.8	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	0.5	0.5	0.5	0.5	0.5	0.5	0.9	3.7	1.0	0.5	0.3	8.0	mg/L	AL.			0.0
64	72	178	197	171	97	70	74	70	78	84	83	59	113	118	76	124	59	51	158	198	226	293	253	88	72	149	mg/L	Sulfate			
3	<3	۵	۵	۵	۵	3	24	3	4	<3	10	<3	<3	4	3	3	3	3	12	8	34	8	12	24	2	6	mg/L	Susp.S.			-
																											lb/day	Acid Load			
																											lb/day	Iron Load			
																											lb/day	Al.load			
_7	-10	2	13	4	-10	-11	ઠ	-7	ራ	7	-16	-7	-11	-9	5	19	11	7	-7	_	29	126	40	14	0	30	mg/L	Net Acid			
3.64	2.72	10.06	19.65	12.53	-1.44	1.90	4.21	3.58	5.22	8.45	-1.04	4.33	2.08	1.15	14.42	28.47	18.21	6.34	6.44	7.36	29.70	109.40	33.94	22.16	8.09	30.46	mg/L	Net Alk			

1/23/98	12/11/97	12/4/97	10/08/97	09/17/97	08/20/97	07/10/97	04/15/97	03/20/97	03/12/97	02/19/97	12/19/96	10/29/96	09/18/96	08/15/96	07/25/96	06/26/96	05/23/96	05/16/96	02/22/96	01/25/96	12/12/95	11/02/95	10/12/95	09/14/95	08/29/95	06/06/95	05/04/95	01/31/95	10/19/94	Sampled	Date
																										24000				(gpm)	WO!
6.1	5.5	6	5.8	5.1	5.1	4.3	6	5.2	5.6	5.4	5.6	6.1	5.5	5.7	5.5	5.6	4.9	5.5	5.1	5.4	5.9	4.1	3.9	3.5	3.5	5.6	5.1	4.9	3.9	рН	Lab.
17.4	10.6	13.8	15.6	8.2	8.4	3.8	11.4	9.2	9.4	9.6	13.8	13	9.2	11.4	9.8	9.6	7.2	9.6	7	8.6	12.6	3.8	0	0	0	8.2	8.6	9.2	0	mg/L	3.5
6.6	4.4	2.4	4.4	15	22	17	2.4	5.2	7.2	18.6	7.2	4.6	9	8	6.6	20	9.8	28	19	8.4	10.4	22	32	44	38	8.6	26	17.8	40	mg/L	Acidity
1.8	1.0	1.3	1.0	1:1	2.2	1.3	8.0	0.7	0.8	1.4	0.8	1.0	0.6	1.3	1.5	1.0	0.6	1.1	0.6	0.4	1.5	8.0	0.9	1.4	1.7	0.5	1.2	2.3	1.5	mg/L	101
1.3	0.6	0.8	1.1	1.4	1.8	0.9	0.7	0.7	0.7	0.9	0.6	0.6	0.4	0.6	0.7	0.7	0.7	0.5	0.8	0.5	0.9	1.8	2.0	2.5	2.1	0.4	0.8	1.0	1.7	mg/L	· Bilbin
<.50	<.50	<.50	<.50	<.50	<.50	0.7	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.9	1.2	1.3	0.5	0.5	0.5	1.4	mg/L	Ar.
97	66	86	182	214	185	176	75	80	72	101	85	85	53	119	121	79	126	79	54	53	160	201	224	288	258	61	115	72	171	mg/L	Signine
2	۵	۵	۵.	12	<3	۵	۵	10	۵	۵	۵	10	۵	۵	۵	ယ	ယ	ω	ယ	4	8	ယ	8	8	အ	ယ	22	4	3	mg/L	ousp.o.
																								21		2481				lb/day	Weig Foad
																										150				lb/day	Iron Load
																										144				lb/day	ALIOAG
4	გ	-1	-11	7	14	13	-9	4	-2	9	-7	6	۵	Ġ	۵	10	ω	18	12	0	-2	18	32	44	38	0	17	9	40	mg/L	Net Acid
	6	1	3	-7	-14	-13	9	4	2	-9	7	8	w	5	ω	-10	۵	-18	-12	0	2	-18	32	4	38	0	-17	-9	4	mg/L	Net Alk

				2481						22			24000	75% tile
		144	150	2481	6	125	0.7	1.0	1.1	15.3	8.6	5.2	24000	VERAGE
55	55	0	0	0	19.00	235	1.0	2.1	2.0	41.60	17.40	2.60	0	Range
=	44	144	150	2481	22.00	288	1.4	2.5	2.3	44.00	17.40	6.10	24000	Max.
44	-11	144	150	2481	3.00	53	0.5	0.4	0.4	2.40	0.00	3.50	24000	Min.

64 MAIN BRANCH DOWNSTREAM FROM FERRIS TREATMENT SYSTEMS

1001	12/11/97	10/15/97	08/15/96	08/21/80	CAITIN	43/43/05	10/12/05	09/27/95	08/29/95	05/04/85	10,000	10/20/04	Sampled	Date		יט ש נוופ	750/ 411	AVERAGE	Range	Max.	
	4100	3200											(gpm)	Flow		3200	2200	MCE	0	3200	0400
0.0	7 0	6.5	6	6	6.7	2.0	0.0	6.5	6.2	6.2	0.0	7	PH	Lab.			0.1	0	0.70	6.50	0.00
10.4	150	33	22	22	22	0.5	3	34	28	12.6	11.0	4	mg/L	Alk.			21.0	340	20.40	32.00	1.00
0.0	000	0	4.2	4.2	12.2	7.8	3		7.4	24	0	,	ma/L	Acidity		9	0.0		24.00	24.00	0.00
0.4	0.0	0.0	1.0	1.0	1.1	0.8	0.0		0.4	-1	0.5		ma/l	Iron			0.8		0.7		0.4
2.5	9.0	7	5.3	5.3	4.4	6.2	0.2	0 1	7.2	4.7	٠. د.	2	ma/l	Mang.			4.8		6.3	7.2	1.7
<.50	×.50		0.5	<.50	0.5	0.2	0.5	0.0	0.5	0.5	0.5	1.8	mall	A.			0.5	0.0	0.3	0.5	0.2
165	358		278	278	273	347	404	100	AOR	153	177	1,8111	ma/l	Sulfate			284	400	388	408	153
۵	4	,	u	۵	w	8	u		2	16	ω	1118/1		Susp.S.	I		CT	13.00	13 00	16.00	3.00
	0											ID/Gay		Acid Load		0	0	0		0	0
	32											ID/Gay	+	Iron I gad			32	0	24	23	32
												ib/day	71.1000	Al load				0			0
6	-32	-18	-	40	-10	-19	-24	-21	=	4	-12	mg/L	INCL MCIO	Not Asid				43	=		-32
9	32	18	10	40	100	19	24	21	-11	-	10	mg/L	Net AIK	Not All				43	32	3	-11

66 DOWNSTREAM WISKERVILLE TRIB.

10/12/95	09/14/95	08/29/95	07/26/95	05/04/95	08/30/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
						(gpm)	Flow			0	0	0
6.7	7.1	6.8	6.6	7.2	6.9	PH	Lab.		6.9	0.6	7.2	6.6
72	62	72	56	34	30	mg/L	Alk.		54.3	42.0	72.0	30.0
0	0	0	0	0	0	mg/L	Acidity	0.0	0	0.0	0.0	0.0
0.2	0.3	0.43	0.5	0.3	0.68	mg/L	Iron		0.4	0.5	0.7	0.2
0.72	1.14	1.62	1.48	0.92	1.84	mg/L	Mang.		1.3	1.1	1.8	0.7
0.14	0.5	0.5	0.5	0.5	0.5	mg/L	AL.		0.4	0.4	0.5	0.1
345	223	365	278	208	86	mg/L	Sulfate		251	279	365	86
10	3	8	3	3	3	mg/L	Sulfate Susp.S.		5	7.00	10.00	3.00
						lb/day	Acid Load			0	0	0
						lb/day	Iron Load			0	0	0
						lb/day	Al.load			0	0	0
-72	-62	-72	-56	-34	-30	mg/L	Net Acid		-54	42	-30	-72
72	62	72	56	34	30	mg/L	Net All		54	42	72	30



12/11/97	07/10/97	06/26/97	03/25/97	11/15/96	96/67/01	06/15/190	08/45/06	06/97/90	05/23/96	02/22/96	12/12/95	11/02/95	10/12/95	09/27/95	08/29/95	05/04/95	01/31/95	09/28/94	Sampled	Date	ell1 %c7	AVERAGE	Kange	Max.	Min.
																			(mdB)	Flow			0	0	0
6	6.2	6.3	6.2	6	6.2	5.8	8.0	5.9	6	5.9	5.6	5.6	5.8	6.3	6.1	6	5.6	6	PH	Lab.	I	6.0	0.70	6.30	5.60
15.6	26	24	12	12.6	15.2	19.4	16.4	13.8	12.2	8.8	11.6	10.6	12	15.4	19.6	10.6	10.4	12.8	mg/L	Alk.	T	14.7	17.20	26.00	8.80
2.4	0	0.4	7.4	18.6	2	1.2	0	180	7	16.4	14.6	10.6	11.6	3.8	1	22	16	0.4	mg/L	Acidity	15	16.6	180.00	180.00	0.00
0.5	3.1	2.4	0.4	0.9	1.1	2.7	2.7	1.9	0.7	0.5	0.7	0.5	0.7	0.5	0.8	0.6	0.7	0.8	mg/L	Iron		1.2	2.7	3.1	0.4
0.5	1.3	1.4	0.8	6.4	0.4	0.5	0.6	0.6	0.6	0.7	8.0	1.6	1.8	1.2	1.3	8.0	0.7	0.9	mg/L	Mang.		1.2	6.0	6.4	0.4
<.50	<.50	<.50	<.50	0.8	<.50	<.50	<.50	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.4	0.5	mg/L	AL.		0.5	0.5	0.8	0.3
141	177	138	88	361	94	143	129	108	108	55	159	215	208	220	250	116	98	114	mg/L	Sulfate		154	306	361	55
۵	8	۵	8	۵	3	۵	۵	3	3	w	w	8	10	w	10	10	4	ω	mg/L	Susp.S.		6	7.00	10.00	3.00
																			-	Acid Load			0	0	0
																			-	Iron Load			0	0	0
																			lb/dav	Al.load			0	0	0
13	- 26	-24	7	6	-13	-18	-16	166	۶.	8	ω	0	0 ;	-13	10	11	8	-12	ma/L	Net Acid			192	166	-26
43	36	24	,	5 3	13	18	16	-166	ۍ _د	6	ا د	0	> ;	10	10	4	5 5	13	ma/l	Net Alk			192	26	-166

9/30/97	3/12/97	1/6/9/	06/07/11	44/26/06	11/15/96	10/16/96	7/31/96	7/10/96	6/27/96	6/18/96	5/30/96	5/8/96	4/18/96	3/27/96	3/14/96	2/22/96	2/21/96	12/5/95	11/20/95	11/15/95	11/7/95	10/11/95	9/12/95	8/22/95	6/29/95	9/28/94	Sampled	Date		75% tile	1
																											(gpm)	Flow			
6.0	5.5	5.2	0.0	7 0	8 3	6.3	5.9	6.2	5.8	5.4	5.5	5.4	5.0	5.4	5.3	4.9	4.9	6.5	5.9	5.7	6.1	6.2	6.3	6.0	5.8	5.9	PH	Lab.			
17.8	10.0	8.8	12.4	0.0	130	22.0	11.8	13.8	10.8	9.8	10.0	8.2	7.8	9.0	10.2	7.2	7.2	20.0	11.8	11.0	19.0	24.0	28.0	24.0	11.6	12.8	mg/L	Alk.			
0.0	24.0	2.2	24.0	0.8	2 2	15 8	36.0	24.0	12.8	46.0	24.0	56.0	30.0	36.0	60.0	13.4	19.6	0.0	11.0	5.8	5.0	11.4	15.0	16.8	13.2	3.2	mg/L	Acidity	24.0	24.0	
1.0	1.0	1.1	1.1	0.1	07	20	0.5	0.5	0.9	1.7	0.8	0.8	1.0	1.7	1.8	1.3	1.9	0.8	0.6	1.9	0.8	0.3	0.3	0.3	1.0	0.8	mg/L	Iron			
0.7	7.2	9.1	7.4	0.0	20.0	100	14.1	11.8	8.8	14.0	12.6	7.4	9.2	9.1	9.3	6.3	6.0	7.1	6.4	3.5	8.8	11.4	12.8	13.7	10.8	12.2	mg/L	Mang.			
<.50	1.7	2.0	1.1	100		^ 3	<.50	<.50	0.6	0.9	0.7	1.0	1.7	1.9	2.1	1.8	1.9	0.7	0.7	1.0	0.5	0.5	0.5	0.5	0.5	0.5	mg/L	AL.			
180	296	322	268	1	100	488	590	547	312	554	453	320	389	330	347	226	204	335	272	163	436	581	683	626	432	406	mg/L	Sulfate			3/0
۵	14	6	۵	2	3	-	۵	۵	ယ	24	ယ	w	ယ	ယ	14	4	14	3	4	3	3	3	4	3	18	u	mg/L	Susp.S.		1	
																	To the state of th										lb/day	Acid Load			-
																											lb/day	Iron Load			-
																											lb/day	Al.load			
18	14	-7	12	-10	b	44	24	10	2	36	14	48	22	27	50	6	12	-20	۷.	Ġ	-14	-13	-13	-7	2	-10	mg/L	Net Acid			-
10	-14	7	-12	10	ō	47-	3 6	-10	2	36	-14	48	-22	-27	50	ь	-12	20	_	Ch.	14	13	13	7	.2	10	mg/L	Net Alk		6	

Range AVERAGE

00

28.0 20.8 13.5

0.0 60.0 19.6

1.6 5.7

1.0

0.3 14.1 13.8 8.8

1.6

683 612

> 3.00 24.00 21.00

00

00

0

6

b

0

00

70 50

70 20

:

0.5

Min.

0

4.9 6.5

7.2

68 SEATON CREEK BEFORE CONFLUENT WITH MAIN BRANCH SLIPPERY ROCK CREEK

10/12/95	09/14/95	08/29/95	07/26/95	05/04/95	08/30/94	Sampled	Date	75% tile	AVERAGE	Range	Max.	Min.
						(gpm)	Flow			0	0	0
6.7	7.1	6.8	6.6	7.2	6.9	PΗ	Lab.		6.9	0.6	7.2	6.6
72	62	72	56	34	30	mg/L	Alk.		54.3	42.0	72.0	30.0
0	0	0	0	0	0	mg/L	Acidity	0.0	0	0.0	0.0	0.0
0.2	0.3	0.43	0.5	0.3	0.68	mg/L			0.4	0.5	0.7	0.2
0.72	1.14	1.62	1.48	0.92	1.84	mg/L	Iron Mang. AL.		1.3	1.1	1.8	0.7
0.14	0.5	0.5	0.5	0.5	0.5	mg/L	AL.		0.4	0.4	0.5	0.1
345	223	365	278	208	86	mg/L	Sulfate		251	279	365	86
10	3	8	3	3	သ	mg/L	Susp.S.		5	7.00	10.00	3.00
						lb/day	Sulfate Susp.S. Acid Load Iron Load			0	0	0
						lb/day	Iron Load			0	0	0
						lb/day	Al.load			0	0	0
-72	-62	-72	-56	-34	-30	mg/L	Net Acid		-54	42	-30	-72
72	62	72	56	34	30	mg/L	Net Alk		54	42	72	30

69 WISKERVILLE TRIB. BELOW STATE GAME PONDS

66 \$ 69 have same pass

Range AVERAGE 75% tile 05/04/95 07/26/95 08/29/95 10/12/95 Sampled Date Max. Min. (gpm) Flow | Lab. | Alk. | Acidity | Iron | Mang. | AL. | Sulfate | Susp.S. | Acid Load | Iron Load 0 0 6.2 6.3 6.6 0.4 6.3 6.4 6.6 6.2 pH mg/L 17.4 17.4 23.4 26.0 8.6 26 24 26 mg/L 0.0 3.0 3.0 0.8 0 0 0 mg/L mg/L mg/L 0.12 0.31 0.3 0.3 0.1 0.3 0.2 0.3 2.57 2.36 3.07 1.56 2.4 3.1 1.5 1.6 0.14 0.5 0.5 0.5 0.4 0.4 0.5 0.1 mg/L 382 466 465 130 336 361 466 130 mg/L 7.00 10.00 3.00 6 6 ωω 8 lb/day 0 0 0 lb/day 0 0 0 lb/day Al.load 0 0 0 Net Acid mg/L -26 -17 22 24 26 17 -23 Net Alk mg/L 26 23 23 26 9

71 WISKERVILLE TRIB. EAST BRANCH

Range AVERAGE 09/14/95 10/12/95 08/29/95 07/26/95 05/04/95 Sampled 75% tile Date Max. (gpm) Flow 00 Lab. Alk. Acidity Iron Mang. 8.7 8.7 6.9 7.3 6.9 6.6 pH mg/L mg/L 6.6 52.0 7.3 34.0 68.0 86.0 66 54 86 82 52 0.0 0.0 0.0 0 0 0 0 0.37 mg/L mg/L mg/L 0.31 0.3 0.4 0.3 0.3 0.3 0.1 0.29 0.27 0.09 0.13 0.16 0.2 0.2 0.3 0.18 0.5 0.5 0.5 AL. | Sulfate | Susp.S. | Acid Load | Iron Load 0.5 0.4 0.5 0.3 mg/L 301 391 159 158 233 292 391 158 mg/L 3.00 23.00 12 18 12 26 w ယ lb/day 0 0 0 lb/day 0 0 0 lb/day Al.load 0 0 0 Net Acid mg/L 82 52 86 -54 -52 -68 Net Alk mg/L 52 86 6 54 68 34 86 52 82

72 WISKERVILLE TRIB. WEST BRANCH

Range AVERAGE 75% tile 12/21/94 05/04/95 Sampled Date Max. Flow Lab. Alk. Acidity Iron Mang. AL. Sulfate Susp.S. Acid Load Iron Load (gpm) pH mg/L mg/L mg/L mg/L mg/L mg/L mg/L lb/day lb/day 0 0 6.6 0.3 6.7 6.7 6.4 6.4 18.2 19.1 20.0 18.2 20 1.8 15.6 15.6 15.6 0.0 11.7 0 8 mg/L mg/L mg/L 0.12 0.04 0.14 0.34 0.08 0.5 0.2 0.3 0.1 0.1 0.0 0.1 0.0 0.3 0.4 0.5 0.1 mg/L 20 23 5 25 20 16.00 18.00 2.00 10 18 N 0 0 0 00 0 lb/day Al.load 0 00 Net Acid mg/L -20 7 3 20 Net Alk mg/L 1 1 2 3 20

73 SOUTH TRIB. ABOVE GOFF JUNCTION

05/16/96	03/13/96	01/25/96	12/12/95	10/11/95	09/27/95	08/29/95	07/26/95	05/04/95	01/31/95	12/21/94	Sampled	Date	75% tile	AVERAGE	
											(gpm)	Flow			
6.4	6.6	6.4	6.5	7.1	7.7	7.2	7.1	6.9	6.7	6.6	ΡH	Lab.		6.8	
26	24	20	46	90	94	88	68	34	32	32	mg/L	Alk.		50.4	
0	0	0	0	0	0	0	0	0	0	0	mg/L	Acidity	0.0	0	
0.57	0.3	0.3	0.3	0.3	0.36	1.09	0.3	0.31	0.15	0.09	mg/L	iron		0.4	
0.05	0.05	0.05	0.05	0.05	0.05	0.12	0.05	0.05	0.02	0.02	mg/L	Mang.		0.1	
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.14	0.14	mg/L	AL.		0.4	
33	36	30	59	117	112	135	63	49	55	31	mg/L	Sulfate		65	
ယ	3	3	3	3	6	3	3	22	2	12	mg/L	Susp.S.		6	
											lb/day	Sulfate Susp.S. Acid Load			
											lb/day	Iron Load			
											lb/day	Al.load			
-26	-24	-20	-46	-90	-94	-88	-68	-34	-32	-32	mg/L	Net Acid		-50	
26	24	20	46	90	94	88	68	34	32	32	mg/L	Net Alk		50	

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6.4 20.0 7.7 94.0

0.0

3 3

0.5

0.1

135 105

2.00 22.00 20.00

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-94 -20

94

75 SNOW MOBILE CLUB TRIB. DOWNSTREAM

1.3 74.0

2 6
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335 10 411
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3 106
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6
12
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4 39
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6
24
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mg/L
Sulfate Susp.S. Acid Load
612
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2.00

76 FERRIS TRIB.BEFORE CONSTRUCTION OF FERRIS TREATMENT SYSTEMS

08////00	03/47/00	03/03/98	02/10/98	86/12/10	16/00/71	100000	12/17/97	12/04/07	11/18/97	10/31/97	10/21/97	18/80/0L	000000	70/20/07	09/17/97	Sampled	Date	13% (18	750/ 411	VEDVCE	Ranne	Max	Min.
282	200	222	180	180	100		100	160	99							(gpm)	Flow	202	104	404	187	285	99
6.6	0.0	0	6.6	6.2	6.5	0.0	0.0	0.0	20	6.8	6.7	6.4	0.4		6.2	pН	Lab.		0.0	0.00	0.00	6 80	6.20
58	00	80	62	48	74	00	70	3	73	110	118	84	84		45	mg/L	Alk.		12.2	10.00	70.00	148 00	40.00
0	0		0	0	0	0	0		0	0	0	0	0		A	mg/L	Acidity	0	0.3	4.00	7	7	0.00
1.3	1.3	3	1.8	2.3	1.2	7.1	1.2	-	3 6	16	2.3	2.6	4.4		6.7	mg/L	iron		2.2	4.6	0.7	4.3	1.2
0.9	1.0		2	1.5	2.0	1.9	1.9			10	1	1.1	1.2	1.0	40	mg/L	Mang.		1.4	1.1	2.0	3	0.9
<.50	<.50		< 50	<.50	<.50	<.50	<.50	00.5		C 80	< 50	<.50	<.50	1.00	7 80	mg/L	AL.			0.0	0.0		0.0
296	301	000	325	330	334	336	249	587	212	270	245	266	242	107	2004	mg/L	Sulfate		291	94	336	200	242
8	۵	2	3	12	3	43	۵	۵	6	3 6	2	4	20	77	3	ma/L	Susp.S.		13	18.00	22.00	7.00	4 00
0	0	c	,	0	0		0	0								lb/dav	Acid Load	0	0	0	0		>
A	ယ	4		רכ	2		2	_							100	lh/dav	Iron Load		3	4	51	-	_
															- County	lh/day	Alload			0	0	0	>
20	-60	-62	4	48	-74	-66	-62	-72	-110	-178	4	84	-84	-36	- Albin	mall	Net Acid			82	-36	-118	-
20	60	62	***	40	74	66	62	72	110	118	04	0	84	36	119/2		Net Alk			82	118	36	2

Date	Flow	Lab.	Alk.	Acidity	Iron	Mang.	AL.	Sulfate	Susp.S.	Acid Load	Iron Load	Al.load	Net Acid	Net Alk
Sampled	(gpm)	pН	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ma/L	lb/dav	lb/day	lh/dav	ma/l	1
12/28/04		4 9	0.0	0					9	1	· mariani	In Private	1,8:::	
12/02/24		4.0	9.6	8.4	0.4	0.5	٠.	29	N				-	1
03/01/95		48	8 8	444	0 4	0.3	00	200					-	
2000		3.0	0.0	149.40	0.4	0.3	0.8	25	8				6	
05/04/95		4.6	7.8	32	0.3	0.6	1.5	34	12				24	T
07/26/95		4.5	7.4	12.8	0.3	0.8	1.5	34	w				7	T
30/0C/BO		4 6	40	4	,	,		1					0	
00/20/00		4.0	1.1	7.1.2	0.3	0.9	0.8	40	မ				4	
09/27/95		4.6	7.2	7.2	0.4	0.9	0.6	39	ယ					T
10/11/95		4.7	6.8	20	0.3	1.1	0.5	50	w				12	I
03/13/96		4.6	6.2	11.6	0.3	04	4	30	2					
05/46/06		4 7	1		3	0.4	=	22					5	
09/10/90		4.1	1.4	10.4	0.3	0.4	0.9	22	ω				ω	

08/82/80	CRIOZIIO	20120170	05/04/95	03/01/95	12/28/94	anipied (gpm		4		75% tile	AVERAGE	Kange	t	+	
	ļ	1			-	Ě	W		ŀ		-	F	1	1	,
4.5	4.0		4.6	4.8	4.8	рп	Lab.	-			4.6	0.30	4.00	4.00	A E O
7.2	1.4	1	7.8	8.8	9.6	mg/∟	AIK	All			7.6	3.40	9.00	0.20	000
11.2	12.8	C.P.	33	14.4	8.4	mg/L	~	•		14	14.2	24.80	32.00	1.20	1
0.3	0.3	9.0	03	0.4	0.4	mg/∟	Iron				0.3	0.1	0.4	0.3	,
0.9	0.8	0.0	9.0	0.3	0.5	mg/L	Mang.				0.7	0.8	1.1	0.3	
0.8	1.5	1.0	2	8.0	1.3	mg/L	AL.				1.0	1.0	1.5	0.5	
40	31	24	3/	25	29	mg/L	Sulfate				33	28	50	22	
S	အ	7.1	3	8	2	mg/L	Susp.S.				4	10.00	12.00	2.00	
						lb/day	Susp.S. Acid Load					0	0	0	
						lb/day	Iron Load					0	0	0	
						lb/day	Al.load					0	0	0	
	St.	24		A	۲	mg/L	Net Acid					25	24	-1	
	Ċn	-24	2	A	-	mg/L	Net Alk					25	-1	-24	

77 HILLIARDS TRIB. HEADWATERS NORTH

20110100	05/16/96	03/13/80	3/43/06	10/11/95	2017100	00/27/05	08/29/95	2010711	07/26/06	CRAMOLCO	EIDAIDE	03/01/95	BR107/71	2/20/04	Sampled (gpm)	
3.0	4 6	4.5		44	4.4	4	4.3	4.4		4.5	1.0	46	4.6		рн	Lab.
1.0	70	1		7.0	0.2	0 1	6.2	,	4	1.4	1 0	80	8.8	,	mg/L	AIK.
20	30	22	2	20	28	200	28	77	3	42	60.3	3/	22		mg/L	Acidity
0.3	000	0.3	0.0	0 3	0.4	0.0	0.3	0.3		0.3	0.0	0.3	0.4		mg/L	Iron
0.7	24	0.9	4.0	40	3.7	4.1	0 4	2.1		نن	0.7	4.0		×	mg/L	Mang.
2.2		2.8	1.0	40	2.2	4.0	30	2.7	0.0	w w	2.0		3.5		ma/L	AL.
49	1	53	ac	3	100	6	70	85		61	43		59	9	ma/L	Sulfate
w		ω	٥	,	ယ	u	,	ယ	-	16	10		2	0	ma/l	_
														· · · · · · · · · · · · · · · · · · ·	lh/day	Susp.S. Acid Load
														- Dividiy	lh/day	Iron Load
														imuay	hiday	Al.load
12	-	18	16	0.0	22	22	2	12	35	27	16	-	42	111811	mail	Net Acid
-12	-10	40	-16	-44-	223	-22	-13	48	٥	-	-16	-13	43	mg/L		Net Alk

00110100	05/16/96	03/13/96	10/11/95	G8/17/80	Calazion	08/20/05	07/26/95	05/04/95	03/01/95	BR107771	400004	Sampled	Date		75% tile	AVERAGE	Nange	Dona.	Min.
											/ AR	(anm)	Flow				0		0
3.0	4 6	4.5	4.4	4.4	4.3	3.3	4	45	4.6	4.0		2	Lab.			4.5	0.30	4.00	4.30
7.0	70	7	5.8	6.2	6.2	3 -	7	71	8.2	8.8	118111	-	Alk.			7.2	3.00	0.00	5.80
20	30 8	23	22	28	28	77	3 4	AS	24	22	11.B/L	-	Acidity		28	25.6	22.00	42.00	20.00
0.3	3 6	0.3	0.3	0.4	0.3	0.0	3 6	2	0.3	0.4	1118/1	+	Iron			0.3	6.1	0.4	0.3
0.7	0.0	0.0	40	3.7	2.1	2.7	1.0	4	0.7	:	mg/∟		Mang.			1.8	3.3	4.0	0.7
2.2	2.0	3	1 20	2.2	2.6	2.7	3.3	3 1	20	3.5	mg/L		A			2.6	1.7	3.5	1.8
49	00	100	8	100	70	85	10	2 2	43	59	mg/L	1	Sulfate			68	57	100	43
w	3	, .	2	3	ω	3	10	1	10	N	mg/L	-	_	I		51	14.00	16.00	2.00
									1		lb/day	Cold Found	Susp S Acid I cod				0	0	0
											lb/day	HOIL FORD	Iron I gad				0	0	0
											lb/day	AL.IOAU	Alload				0	0	0
3	15	16	22	33	22	15	35	16	100	13	mg/L	Net Acid	Not Asia				22	35	12
43	-15	-16	77-	3 1	-22	-15	35	-16		-12	mg/L	Net Alk				1	22	-12	-35

78 HILLIARDS TRIB. HEADWATERS EAST

20000	2/10/08	1/21/98	12/30/97	12/17/97	12/04/97	11/18/97	10/31/97	10/21/97	10/08/97	10/03/97	09/29/97	09/17/97	09/17/97	09/08/97	08/28/97	08/25/97	78/81/80	18/11/00	08/14/07	08/12/97	Sampled	Date		75% tile	AVERAGE	Range	Max.	Will.
120	430	130	70	60	60	60	65		60		60		60	60		60	60	00	80	7	(gpm)	Flow		64	70	60	120	00
6.0	0.0	0.00	7	7	7.1	7.3	7.1	7.1	7.1	7.2	7.2	7.4	7.2	7.2	7.3	7.4	7.5	1.5	3.5	77	Ha	Lab.			7.2	0.90	7.70	0.00
140	122	3	144	154	156	148	162	190	258	200	210	250	236	222	236	220	238	372	100	400	mal	Alk.	Ī		210.4	278.00	400.00	122.00
0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			ma/l	Acid	-	0		0.00	0.00	0.00
0.5	0.5		0 3	< 30	<.30	<.30	<.30	<.30	<.30	<.30	<.30	<.30	<.30	0.3	0.5	0.5	0.7	1:1	0.8	2	ma	Iron			0.6	0.8	-1	0.3
2.0	2.2	A	3 6	23	2.5	2.3	1.9	1.9	1.6	1.3	1.3	1.1		0.9	0.8	0.7	0.7	0.9	1.1	7,R.	mall	Mano.			5	1.8	2.5	0.7
<.50	<.50	V.50		< 50	^ 50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	< 50	<.50	<.50	<.50	<.50	<.50	\$.50	1.B.L.	1	Δ			0.00	0.0	00	0.0
386	440	548	210	640	456	460	451	354	325	329	327	280	283	235	291	304	257	330	379	118/1	out at	Sulfato	r	000	386	313	548	235
^3	۵	43	6	3 6	3	۵	۵	۵	۵	۵	2 5	196	3	۵	۵	۵	8	8	۵	mg/L	10	-		1	74	188 00	108.00	8.00
0	0	0	0			0	0		0		>			0		0	0	0		lb/day	13	-	0					0
	1	0													0	0	0	_	0	lb/day	Iron Load			c	, -			2
																				lb/day	-	7			0	0		>
	-122	-144	-154	-156	-140	-102	160	400	-200	-210	-250	-236	777-	-236	022-	9007-	300	340	400	mg/L	Net Acid				278	-122	-400	400
- 0.00	123	144	154	156	148	701	190	400	200	210	250	236	777	236	077	238	210	343	400	mg/L	Net Alk.				278	400	122	1

VK1 COMPOST V.F.W. POND FOR SR86

Min.	40	6.50	118.00	0.00	0.3	0.8	0.0	236	10.00	0	0	0	-216	118
Max.	120	7.60	216.00	0.00	1.6	2.5	0.0	507	16.00	0	1	0	-118	216
Range	80	1.10	98.00	0.00	1.3	1.7	0.0	271	6.00	0	4	0	98	98
AVERAGE	72	7.2	164.1	0.0	0.7	1.8		386	14	0	0	·		00
75% tile	69			0	ľ					0				
Date	Flow	Lab.	Alk.	Acid	Iron	Mang.	₽.	Sulfate	Susp.S.	Acid Load	Iron Load	Al. Load	Net Acid	Net Alk.
Sampled	(gpm)	рН	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		lb/day	lb/day	mg/L	ma/L
9/3/97		7.2	208	0	1.6	1.0	<.50	236	16				-208	208
9/8/97	60	7.3	216	0	1.2	1.0	<.50	279	۵	0	4		-216	216
9/17/97		7.3	198	0	0.8	0.8	<.50	282	۵		0		-198	198
9/29/97	60	7.4	192	0	0.4	0.9	<.50	314	۵	0	0		-192	192
10/8/97		7.2	210	0	0.3	1.3	<.50	323	10				-210	210
10/21/97	46	7.3	206	0	0.3	1.6	<.50	336	۵	0	0		-206	206
10/31/97	65	7.3	168	0	0.6	1.8	<.50	415	۵	0	0		-168	168
11/18/97	60	7.6	130	0	8.0	2.2	<.50	442	14	0	4		-130	130
12/4/97	60	7.1	138	0	0.4	2.5	<.50	447	16	0	0		-138	138
12/17/97	60	6.9	130	0	0.8	2.4	<.50	495	۵	0	_		-130	130
12/30/97	70	7	140	0	0.4	2.4	<.50	507	۵	0	0		-140	140
1/21/98	120	7	120	0	0.7	2.4	<.50	483	۵	0	1		-120	120
1/23/98		6.5	118	0	0.7	2.4	<.50	424	۵				-118	118
2/10/98	120	7	124	0	0.4	2.1	<.50	414	۵	0	_		434	104

VK2 FINAL V.F.W. POND FOR SR86

08/01/7	+	1/21/08	12/30/97	18/11/71	+	+	11/18/07	10/31/97	10/21/97	10/08/97	3) Daiding		Date		75% tile	AVERAGE	T	+	Max
24	2 6	à	2	12	6	à	0	ا د	3	2	(md8)		Flow		18	1	3 6	2 1	2
1.2	4	7	7.3	7.2	1.0	7.0	7.0	7.0	76	7.4	рп	190	- ah			1.4	0.00	0.00	7 80
104	940	2	132	114	-	132	1000	346	670	742	mg/L	217.	All			2/1.6	040.00	640.00	74000
0		0	0	0	0		,		0	0	mg/L	Acid	Asia	I	0	0.0	0.00	0.0	0.00
0.5	0.4	2	×30	<.30	^.30	*.30	0.0	0.7	7	0.9	mg/L	11011				0.6	0.5	9.0	0.4
2.4	2.1		2	1.2	0.9	0.7	1.2	1	4 7	2.1	mg/L	wang.	Maria			1.5	1.7	2.4	0.7
<.50	<.50	1.00	< 80	<.50	<.50	<.50	<.50	00.5		< 50	mg/L	AI.					0.0	0.0	0.0
237	261	112	277	387	299	337	227	135	400	684	mg/L	Suirate				316	549	684	135
3	4	3	3	3	43	۵	۵	۵		13	mg/L	Susp.S.	,		1	4	0.00	4.00	4.00
0	0			0	0	0	0	0		0	lb/day	Acid Load	-	(0	0	0	0	0
0	0						0	0			lb/day	Iron Load				0	0	0	0
										-	lb/day	Al. Load					0	0	0
-104	-94	-132	- 1 1 1	-114	-110	-132	-346	-670	-142		ma/L	Net Acid					648	-94	-742
104	94	132	1 14	444	110	132	346	670	142	- 6	ma/L	Net Alk					648	742	94

JP1 COMPOST V.F.W. POND SR87 /SR88

JP2 FINAL V.F.W. POND FOR SR87 / SR88

10.00	2/10/98	1/21/98	10000	12/30/97	12/17/97	12/04/9/		11/18/97		Samplad	Date		75% tile	745	AVEDAGE	Range	Max.	
4.4	24	18	16	3	12	18			/IIIAR	ann!	Flow		18	=	17	2	24	-
1.4	73	6.9	1.9	7.4	7	7.3	1.0	77	pn	200	Lab.			1.1	1	0.40	7.30	0.80
90	00	82	114	444	100	114	Capaci	344	1119/L		Alk.			141./		262.00	344.00	02.00
		0	0	,	0	0	0	>	mg/L		Acid	,	0	0.0	0.00	000	0.00	0.00
0.4		0.3	0.6	200	230	0.4	7.7	3	mg/L		Iron			0.8		10	2.2	0.3
2.0	2	16	1.2	1.0	40	1.0	2.3		mg/L	9	Mano			-1 -5	1.0	4	2.3	1.0
<.50	1.00	03 >	<.50	1.00	7 60	< 50	<.50		mg/L	1	Δ				0.0	00	0.0	0.0
248	410	276	281	320	200	272	424		mg/L	Calledo	Sulfata		1	304	1/3	34.	424	248
۵	6	2	۵	3	6	23	۵	0	ma/L	Ougo.o.	-		1		0.00	000	000	0.00
0	-	,	0	0		0		1000	lb/dav	MOIN LONG	٧.	0		0	0		0	0
0	c	,	0		-	,		- Annay	Ihlday	HOH LONG	-			0	0			0
								imuay	hiday	Al. Load					0			0
-96	-82	41.1	-114	-100	-114		344	111g/L	mail	Net Acid					262	70-	3	344
2	82	- 1-8	111	100	114	247	ME	118/L		Net Alk					262	344		RO

03/17/98	03/03/98	02/10/98	01/23/98	12/30/97	12/17/97	12/04/97	11/18/97	10/31/97	10/21/97	10/08/97	09/29/97	09/17/97	09/08/97	08/25/97	Sampled	Date
									58	80	250	75	75	150	(gpm)	Flow
6.6	6.6	6.6	6.3	6.3	6.1	6.5	6.9	6.8	6.7	6.5	6.8	6.7	6.7	6.6	рН	Lab.
66	66	74	74	68	50	78	120	110	130	108	134	106	94	86	mg/L	Alk.
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	mg/L	Acid
1.3	2.4	4.2	4.2	11.0	9.6	3.7	3.7	6.0	4.3	2.0	5.4	3.5	4.0	6.8	mg/L	Iron
7.0	1.2	1.5	1.9	2.7	2.7	2.5	2.1	1.9	1.9	1.0	2.0	2.0	2.5	2.4	mg/L	Mang.
<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	mg/L	AI.
286	301	357	322	373	348	314	275	307	268	280	271	276	293	278	mg/L	Sulfate
4	3	3	8	6	16	4	14	14	<3	14	4	8	14	20	mg/L	Susp.S.
									0	0	0	0	0	0	lb/day	Sulfate Susp.S. Acid Load Iro
									3	2	16	3	4	12	lb/day	Iron Load
															lb/day	Al. Load
-66	-66	-74	-74	-68	-50	-78	-120	-110	-130	-108	-134	-106	-94	-86	mg/L	Net Acid
66	66	74	74	68	50	78	120	110	130	108	134	106	94	86	mg/L	Net Alk.

75% tile	AVERAGE	Range	Max.	Min.
133	115	192	250	58
	6.6	0.80	6.90	6.10
	90.9	84.00	134.00	50.00
0	0.0	0.00	0.00	0.00
	4.8	9.7	11.0	1.3
	1.9	2.0	2.7	0.7
		0.0	0.0	0.0
	303	105	373	268
	11	16.00	20.00	4.00
0	0	0	0	0
	7	14	16	2
		0	0	0
		84	-50	-134
		84	134	50

FRP LARGE RETENTION POND DISCHARGE FOR FERRIS DISCHARGES

01/2/10	04/34/08	12/11/97	09/17/97	08/20/97	07/15/97	06/25/97	/8/LZ/C0	18/51/140	03/18/9/	18/57/70	12/11/96	10/24/96	08/21/80	07/24/96	06/25/96	98/91/60	05/16/00	04/40/40	California	Date		75% tile	AVERAGE	Range	Max.	MID.
0		8	8	17	6	8	æ		0	0	9	7						5	lle	Flow		9	8	11	17	0
0.5	0.0	2	6.2	5.3	6.3	6.2		6.4	6.2	6.2	6.4	6.2	8	6.1	6.3	6.2	2.0	2.0	200	Lab.			6.2	1.20	6.50	5.30
208	100	160	163	22	170	164		172	156	166	182	144	106	118	134	178	100	1/6	mg/L	Alk.			153.8	186.00	208.00	22.00
0	1/6	470	238	368	190	158		134	138	122	266	80	120	122	82	136	774	64	mg/∟	Acid		178	147.6	368.00	368.00	0.00
142.0	O.OCT	407.4	167 4	1470	160.0	166.0		163.0	151.0	158.0	148.0	149.0	167.0	160.0	176.0	149.0	131.0	115.0	mg/L	Iron			152.9	61.0	176.0	115.0
3.7	3.8	3.4	201	50	4.0	4.1		4.2	4.0	4.1	3.7	4.1	4.1	4.2	4.7	4.2	4.8	6.4	mg/L	Mang.			4.3	2.7	6.4	3.7
<.50	<.50	100.50	1.7	4 4	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	mg/L	<u>A</u> .			1.4	0.0	1.4	1.4
1062	1102	BROL	100	760	1254	1092		1187	1095	1153	1102	1152	1110	1512	1190	1141	1129	985	mg/L	Sulfate	ľ		1125	752	1512	760
108	56	104	6	3	60	112		36	48	164	36	172	126	132	112	75	26	94	mg/L	Susp.S.			91	146.00	172.00	26.00
0	17	23	13	40	14	15		14	13	12	29	7						12	lb/day	. Acid Load		10				0
14	14	16	67		13	16		18	15	15	16	13						21	lb/day	Iron Load		1	16	18	29	12
			0																lb/day	Al. Load			0	0	0	0
-208	10	76	346	0.7	3 6	50	0	38	-18	4	84	-64	14	4	-52	42	-74	-112	mg/L	Net Acid			207	554	346	-208
208	-10	-76	-346	-20	3 0	D 0	0	38	18	4	-84	64	-14	4	7.5	43	74	112	mg/L	Net Alk.			200	554	200	346

SR94.1 DISCHARGE FROM A.L.D FOR SR94

11/11/11	\dagger	7	9/17/97	8/20/97	-	+	+	+	+	+	10/24/96	8/15/96	7/24/96	05/16/96	04/16/96		10/12/95	C6/17/80	00/04/05	115	Sampled (a	1	10001116	T	AVERAGE	+	Max
00	3 8	3	22	29	19	07	3 6	2	5	5	-					14		L	-	/IIIAR	WOLL		90	5 6	3 8	5 8	3
3.1	9.1	2	2.9	2.9	3.1	6		3 0	o i	3	اد	2.7	2.8	2.9	2.9	5.8	3.1	2.8	2	3 20	Lab.			0.	3 .	2 10	5 80
0		,	0	0	0	0			0		0	0	0	0	0	48	0	0	0	1,8111	AIK.			4.1	30.00	48.00	8 0.00
258	100	100	108	168	122	07.1	240	144	901	100	150	252	234	228	182	312	134	232	234	1,6u	Acid		234	/'CAL	100.00	312.00	343.00
45.7	24.1	2 2	24 6	20.7	21.4	8.8	55.7	0.77	25.3	4.03	3 6	28.3	19.1	15.1	14.7	144.0	14.8	39.5	33.2	mg/L	Iron			32.2	+		\top
4.2	2.6	2.0	3 8 6	2.5	1.8	1.3	4.8	3.2	3.0	3.4	3.0	3.6	30	3.8	4.1	3.8	2.8	4.8	5.0	ng/∟	Mang.			3.4	3.6	5.0	7.3
9.2	4.5	2.4	3 .	19	0.9	0.9	7.9	5.4	3,8	3.6	2.0	7 0 1	5.4	5.6	6.3	0.5	3.1	8.4	10.0	mg/L	A.			4.7	8,5	10.0	0.5
766	421	000	414	A73	356	324	592	527	616	598	144	740	740	618	556	1034	331	488	518	mg/L	Sulfate			573	710	1034	324
۵	۵	2	3 6	2	۵	۵	<.3	8	6	۵	3	3 6	3	۵ (٠,	ω	16	8	ω	mg/L	Susp.S.			6	13.00	16.00	3.00
186	90	52	200	70	28	40	81		95					Ī		53				lb/day	Acid Load		90	76	158	186	28
33	15	6	-	1 0	ינט	3	19		15							24				lb/day	Iron Load	1		14	30	33	u
7	3	1	1		0	0	3		2											lb/day	Al. Load			2	7	7	0
258	150	196	168	221	100	120	240	144	158	158	252	234	228	791	402	2004	134	232	234	mg/L	Net Acid				144	264	120
-258	-150	-196	-168	771.	133	-120	-240	-144	-158	-158	-252	-234	-228	-182	-204	401-	424	232	-234	mg/L	Net Alk.				144	-120	-264

1/21/98	12/11/97	10/08/97	09/09/97	76/81/80	07/15/97	76/81/90	/8/02/50	04/08/97	16/61/50	02/19/97	12/11/96	10/22/96	09/18/96	08/13/96	07/24/96	07/24/96	06/26/96	05/16/96	04/16/96	03/13/96	02/21/96	01/10/96	12/13/95	11/01/95	10/11/95	09/14/95	08/30/95	Sampled	Date	/5% tile	AVERAGE	Range	Max.	MIN.
													k				45					7				40		(gpm)	Flow	4	V.		45	3
6.7	6.5	6.4	6.5	6.7	6.6	6.5	6.7	6.6	6.5	6.6	6.6	6.6	6.6	6.4	6.6	6.6	6.7	6.4	6.4	6.6	6.5	6.5	6.5	6.5	6.5	6.6	6.5	PH	Lab.		6.6	0.30	6.70	0.40
126	140	146	136	138	126	124	124	122	114	132	140	138	140	136	132	132	122	130	136	140	150	154	172	156	154	154	132	mg/L	Alk.		137.4	58.00	172.00	714.00
0	0	5.8	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	mg/L	Acid	0	0.2	5.80	5.80	0.00
13.7	16.8	15.5	16.1	12.9	12.4	12.4	11.2	9.1	8.3	9.6	11.4	13.8	16.3	15.0	14.2	14.2	13.6	11.2	12.3	10.3	11.8	11.8	11.5	16.4	17.0	12.7	3.0	mg/L	Iron		12.7	14.0	17.0	3.0
1.4	1.6	1.6	1.7	1.5	1.3	1.4	1.2	1.2	1.1	1.3	1.3	1.6	1.7	1.6	1.6	1.6	1.5	1.3	1.5	1.6	1.8	1.7	1.9	1.8	1.9	1.9	1.8	mg/L	Mang.		1.5	0.8	1.9	1.1
<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	mg/L	AI.			0.0	0.0	0.0
214	213	207	212	196	187	176	149	154	150	170	169	175	218	185	160	160	161	157	180	170	220	219	221	219	196	191	173	mg/L	Sulfate		186	72	221	149
16	16	8	6	4	10	10	۵	14	۵	3	12	12	14	10	6	6	4	ω	ယ	5	4	22	4	ယ	22	4	2	mg/L	Susp.S.		9	20.00	22.00	2.00
																	0									0		\neg	Acid Load	0	0	0	0	0
												4					0									6		lb/day	Iron Load		3	6	6	0
																												lb/day	Al. Load			0	0	0
126	-140	-140	-136	-138	-126	-124	-124	-122	-114	-132	-140	-138	-140	-136		-132			-136	-140	-150	-154	-172	-156	-154	-154	-132	mg/L	Net Acid			58	-114	-172
126	140	140	136	138	126	124	124	122	114	132	140	138	140	136		132		.00	136	140	150	154	172	156	154	154	132	ma/L	Net Alk			58	172	114

AVERAGE 07/15/97 09/09/97 08/19/97 06/19/97 05/20/97 04/09/97 03/19/97 07/24/96 05/16/96 04/16/96 12/11/97 10/08/97 02/19/97 10/22/96 09/18/96 08/13/96 06/26/96 03/13/96 02/21/96 01/10/96 12/11/96 12/13/95 10/11/95 09/14/95 08/30/95 Sampled Range 75% tile 1/01/95 Date Max. (gpm) Flow 66 66 2 65 9 50 55 55 58 66 66 59 91 55 45 45 46 0.60 7.00 6.6 6.9 6.9 6.8 6.8 6.5 6.5 6.5 6.9 6.7 6.6 6.7 Lab. 6.7 6.7 6.7 6.8 6.9 6.9 6.8 모 126.00 100.4 40.00 mg/L Alk. 102 100 110 102 92 8 92 94 96 90 90 98 94 98 8 92 96 120 126 110 106 118 108 mg/L Acid 0.00 0.00 0.0 mg/L Iron 6.9 5.5 5.4 6.7 5.7 4.1 4.6 3.9 6.5 5.6 5.6 6.1 4.6 5.2 5.6 5.9 6.5 5.5 5.2 6.9 4.1 4.5 2.3 4.8 4.7 4 4.6 Mang. mg/L 0.9 :1 1.4 1.4 2.0 1.9 2.0 1.5 1.4 1.3 11 1.0 1.2 1.3 1.5 1.6 1.5 1.5 1.5 1.5 1.7 1.7 1.7 1.7 1.5 1.2 1.8 mg/L <.50 <.50 5050 <.50 <.50 <.50 <.50 <.50 ^.50 <.50 <.50 <.50 <.50 <.50 <.50 <.50 <.50 <.50 <.50 <.50 <.50 0.000 ≥ Sulfate Susp.S. Acid Load 152 180 203 213 187 173 160 172 193 151 135 172 212 203 233 232 181 98 233 158 148 188 mg/L 26.00 24.00 ۵ ۵ ۵ 3 3 8 24 12 œ 26 ۵ 10 20 12 8 w 5 w w w lb/day 0 Iron Load lb/day S w 5 0 w 5 w S 5 w w w 4 Al. Load lb/day 0 00 Net Acid mg/L -100 -110 -120 -110 -106 -126 -104 -102 -98 -102 -126 -108 96 9 -90 -96 40 -92 -94 Net Alk. mg/L 90 90 86 102 98 100 96 98 126 120 1106 118 108 126 98 94 92 96 8 86 92 96

Min.

45

6.40

86.00

0.00

2.3

1.0

2.00

0

0

SR114B2 FINAL POND DISCHARGE FOR SR114B

HEDIN / C.D.S. SYSTEM

SR114D1 DISCHARGE FROM A.L.D. FOR HEDIN / C.D.S. SYSTEM WEST

86	-88-		44	80	0	230	1.00		3 9	3	444	0.0	33	43/44/07
3	8		4	80		255	< 80	44	3 7 6	54	152	6.3	106	10/08/97
144	-144		64	0	۵	265	<.50	1.1	35.8	0	144	6.5	149	09/09/97
140	-140		35	0	4	247	<.50	1.0	31.9	0	140	6.5	91	08/19/97
128	-128		23	0	18	253	<.50	1.0	32.4	0	128	6.5	60	07/15/97
130	-130		67	0	8	243	<.50	1.1	35.2	0	130	6.3	158	06/19/97
140	-140		62	0	3	239	<.50	1.0	34.4	0	140	6.5	149	05/20/97
132	-132		63	0	60	228	<.50	1.1	33.4	0	132	6.4	158	04/09/97
134	-134		62	0	8	259	<.50	1.0	32.6	0	134	6.4	158	03/19/97
140	-140		56	0	20	264	<.50	1.0	33.5	0	140	6.5	140	02/19/97
152	-152		62	0	22	229	<.50	1.0	32.6	0	152	6.5	158	12/11/96
152	-152		61	0	48	224	<.50	1.1	34.5	0	152	6.4	148	10/23/96
154	-154		67 0	0	52	272	<.50	1.2	37.4	0	154	6.4	150	09/18/96
114	-114		59	33	34	220	<.50	1.1	35.3	20	134	6.3	139	08/13/96
138	-138		58	0	14	285	<.50	1.1	34.6	0	138	6.5	139	07/24/96
mg/L	mg/L	lb/day	lb/day	lb/day	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	뫄	(gpm)	Sampled
Net Alk.	Net Acid	Al. Load	Iron Load	Acid Load	Susp.S.	Sulfate	Al.	Mang.	Iron	Acid	Alk.	Lab.	Flow	Date
				0						0			154	75% tile
			56	7	25	250		1.1	34.2	4.9	140.9	6.4	135	AVERAGE
56	56	0	44	69	56.00	65	0.0	0.2	5.5	54.00	26.00	0.20	98	Range
154	-98	0	67	69	60.00	285	0.0	1.2	37.4	54.00	154.00	6.50	158	Max.
98	-154	0	23	0	4.00	220	0.0	1.0	31.9	0.00	128.00	6.30	2	MID.

12/11/96 158 02/19/97 140 03/19/97 158 04/09/97 158 05/20/97 149 06/19/97 158 07/15/97 60 08/19/97 91 09/09/97 149 10/08/97 106									11-	+	1	10/20/00	+	+	+	07/24/96 139	Sampled (gpm)		-	10% tile 104	T	Т	+	+	1
6.4			8	6.7	6.6	0.0	8.0	0.7	0.0	0.0	0.0	0.7	4.0	4.5	8	6.7	РН	Lab.			0.0	0.00	0.90	6.40	,
000	a	3	200	88	92	ao	00	8	8	78	8	78	76	9	2	94	mg/L	Alk.			0.08	10.00	90.00	86.00	
0	0		>	0	0	0	0	0	0	0	0	0	0			0	mg/L	Acid		6	0.0	0.00	0.00	0.00	
14.0	8.2	10.4	3	6.1	8.4	70.6	77.0	15.3	11.4	16.6	17.1	14.1	8.61	14.	9.7	0 4	mg/L	Iron			12.6	11.3	17.4	6.1	
	1.0	0	40	0.9	1.0	1.0	0.9	1.0	1.0	1.0	0.9	1.1	1.1	1.1		40	mg/L	Mang.			1.0	0.2	1.1	0.9	
<.50	<.50	1.50	100	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	2.50	250	mg/L	AI.				0.0	0.0	0.0	
250	252	667	200	214	249	183	225	241	277	221	214	230	209	205	200	200	mg/L	Sulfate			234	104	286	183	
<3	6	3	6	۵	4	4	12	4	۵	15.9	36	36	28	40	0	9	mg/L	Susp.S.			17	36.00	40.00	4.00	
0	0	0	,	0	0	0	0	0	0	0	0	0	0	0	0	,	lb/day	Acid Load		0	0	0	0	0	
21	10	18	-	7	6	20	20	29	33	28	32	25	29	24	16		lb/day	Iron Load			21	27	33	6	
																	lb/dav	Al. Load				0	0	0	
96	-88	-88	-00	00	-92	-86	-88	-88	-86	-92	-96	-92	-92	-94	-94		ma/L	Net Acid				10	-86	-96	
86	88	88	88	0	93	86	88	88	86	92	96	92	92	94	94		ma/l	Net Alk				10	96	86	