

**CALAVERAS
COUNTY
WATER
DISTRICT**

141

BUSINESS OFFICE

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June 21, 2004

ext 20

Craig Wilson
Chief, TMDL Unit
Division of Water Quality
State Water Resources Control Board
PO Box 100
Sacramento, CA 95812-0100

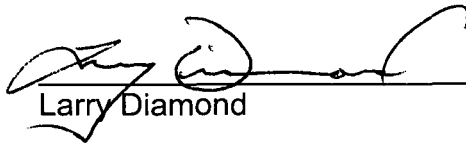
Re: Calaveras River Baseline Water Quality Sampling Project
Transmittal of Information

Craig:

The enclosed CD contains the Monitoring Plan and Quality Assurance Program for the above project. Sampling locations within the Calaveras River watershed are depicted on pages 2-11, 12, & 13. These should tie-in with the data summary I sent you.

Sincerely,

CALAVERAS COUNTY WATER DISTRICT


Larry Diamond

Enclosure

cc: J. Cornelius

SL- #38

From: "Larry Diamond" <larryd@ccwd.org>
To: <emanm@swrcb.ca.gov>
Date: 6/29/04 9:11AM
Subject: FW: Response to Wtr Qual Data Solicitation - Calaveras River Data

Melanie

Here is the raw data summary from our Calaveras River sampling efforts.

Larry Diamond

Lower Calaveras
Factsheets
completed
11/23/04

-----Original Message-----

From: Larry Diamond [mailto:larryd@ccwd.org]
Sent: Monday, June 14, 2004 4:24 PM
To: 'wilscj@swrcb.ca.gov'
Subject: Response to Wtr Qual Data Solicitation - Calaveras River Data

Craig

I understand that Jim Cornelius spoke with you a little about our Calaveras River Baseline Water Quality Sampling program. I understand from your April 30 solicitation letter that your submittal deadline is today. I wanted to get something into your hands but I'm afraid that this e-mail will not be completely responsive to your request.

While our sampling effort on the Calaveras River and its tributaries is done, the project report has not been completed. I've attached the raw data spreadsheet I received from Gary Wortham of Tetra Tech, our consultant on this project, and will forward the Monitoring Plan and QAPP when I get a CD from Gary. We'll make sure you get a map to tie-in the sampling with a location. I don't know the level of geographic information available. Sorry the timing is a bit off on this.

Larry Diamond
larryd@ccwd.org
209-754-3543 x20
Calaveras County Water District
PO Box 846
San Andreas, CA 95249

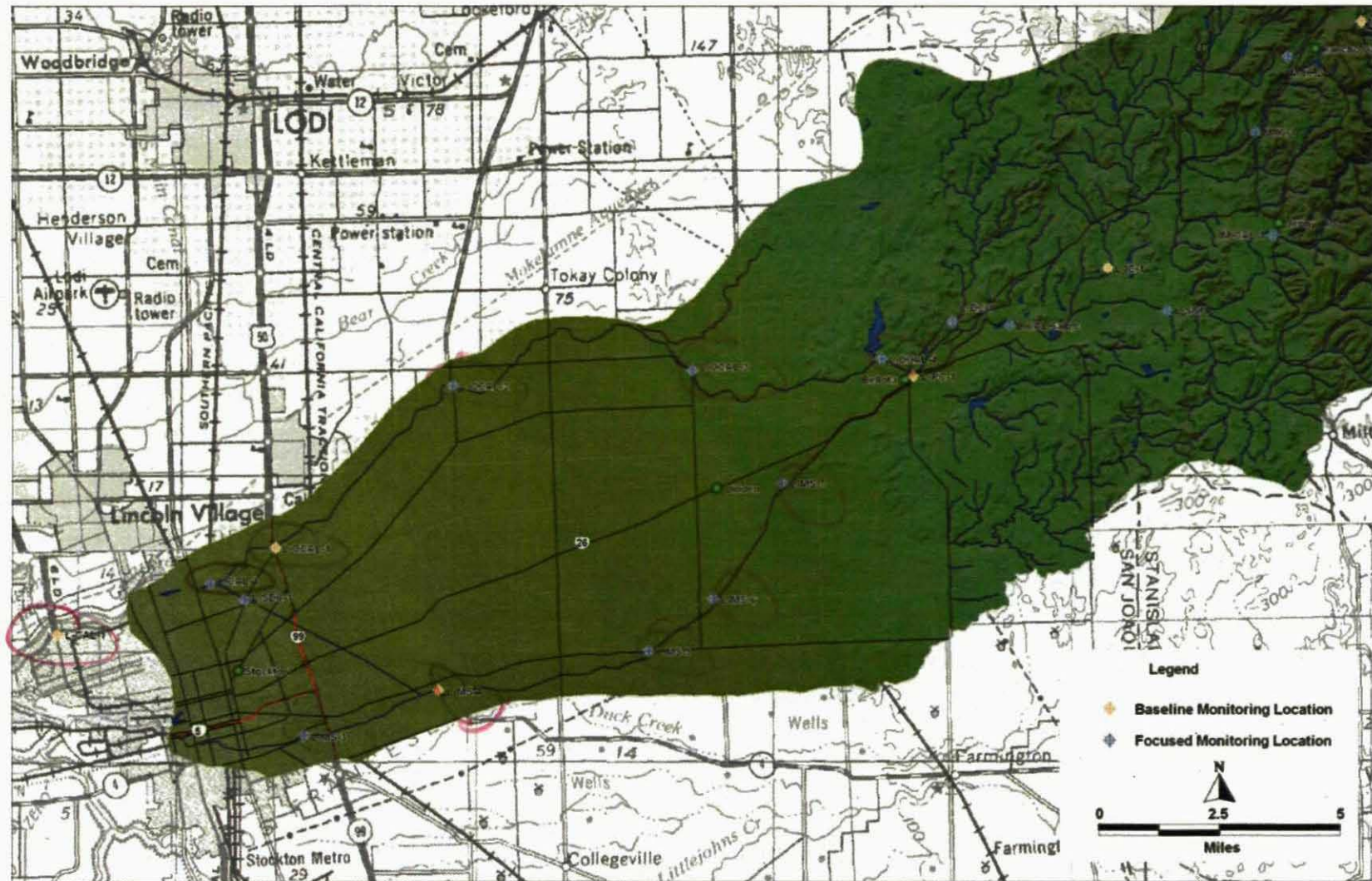


Figure 2-1 Lower reach of watershed

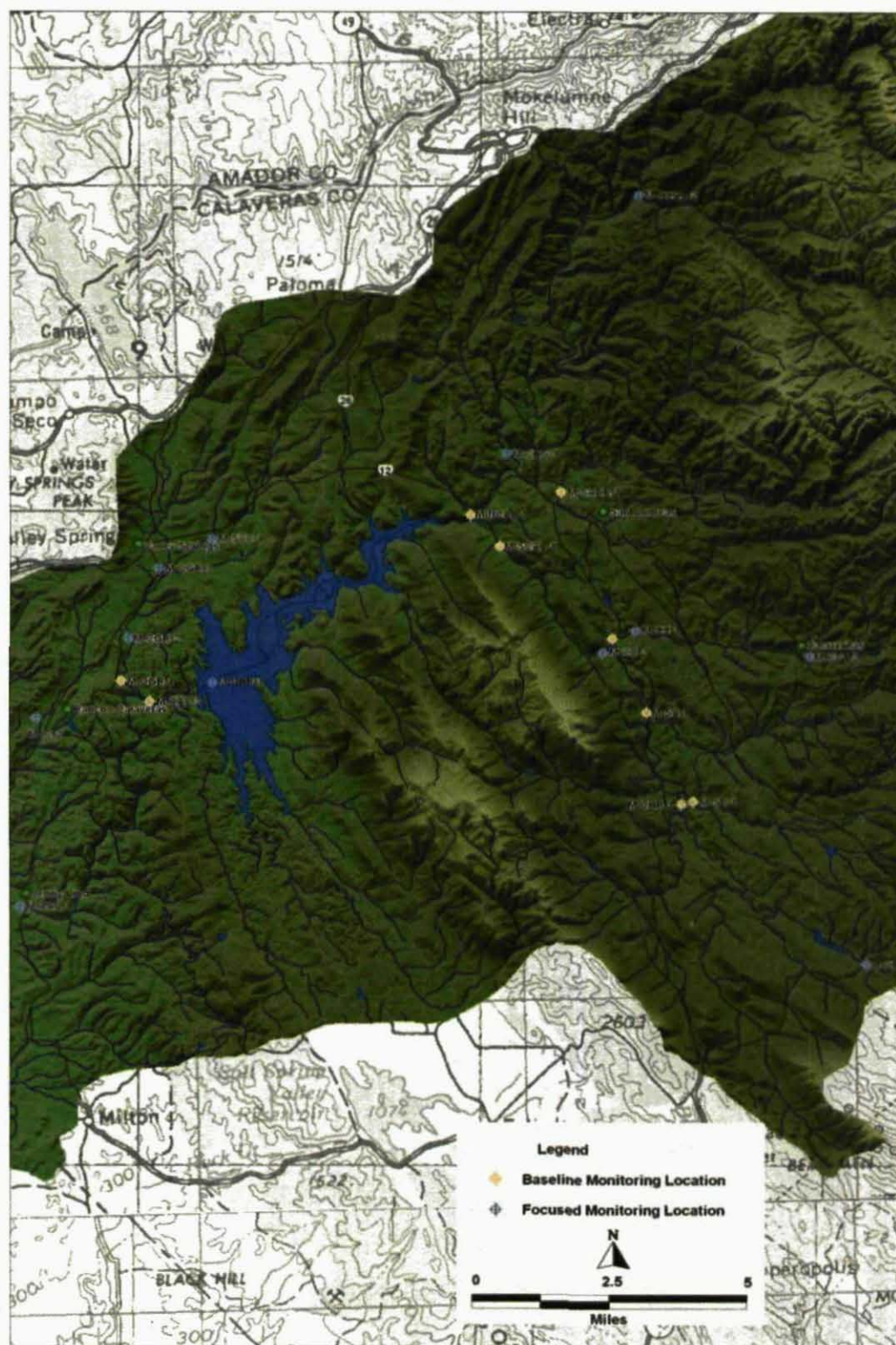


Figure 2-2. Middle Reach of Watershed

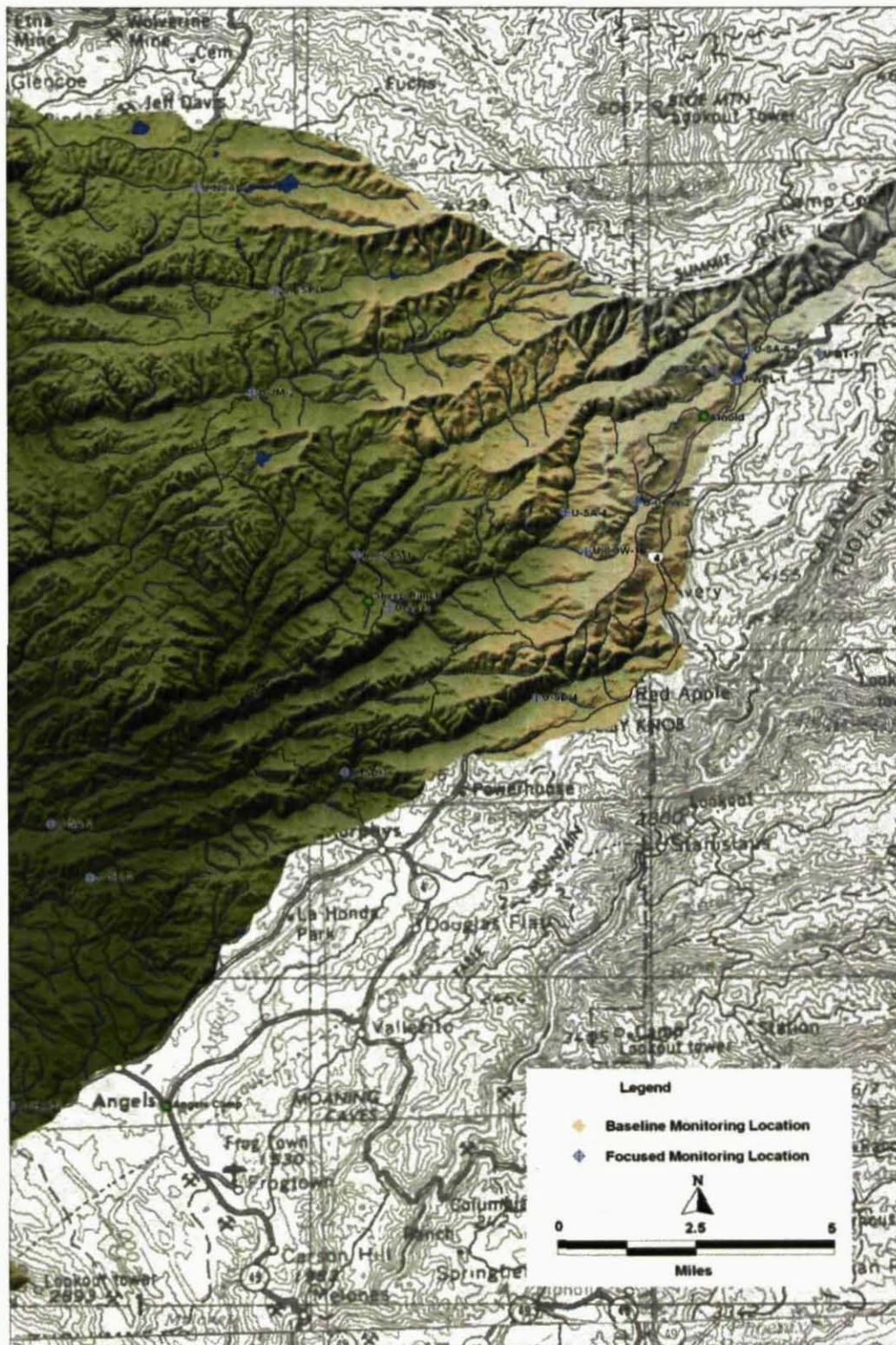


Figure 2-3. Upper Reach of Watershed

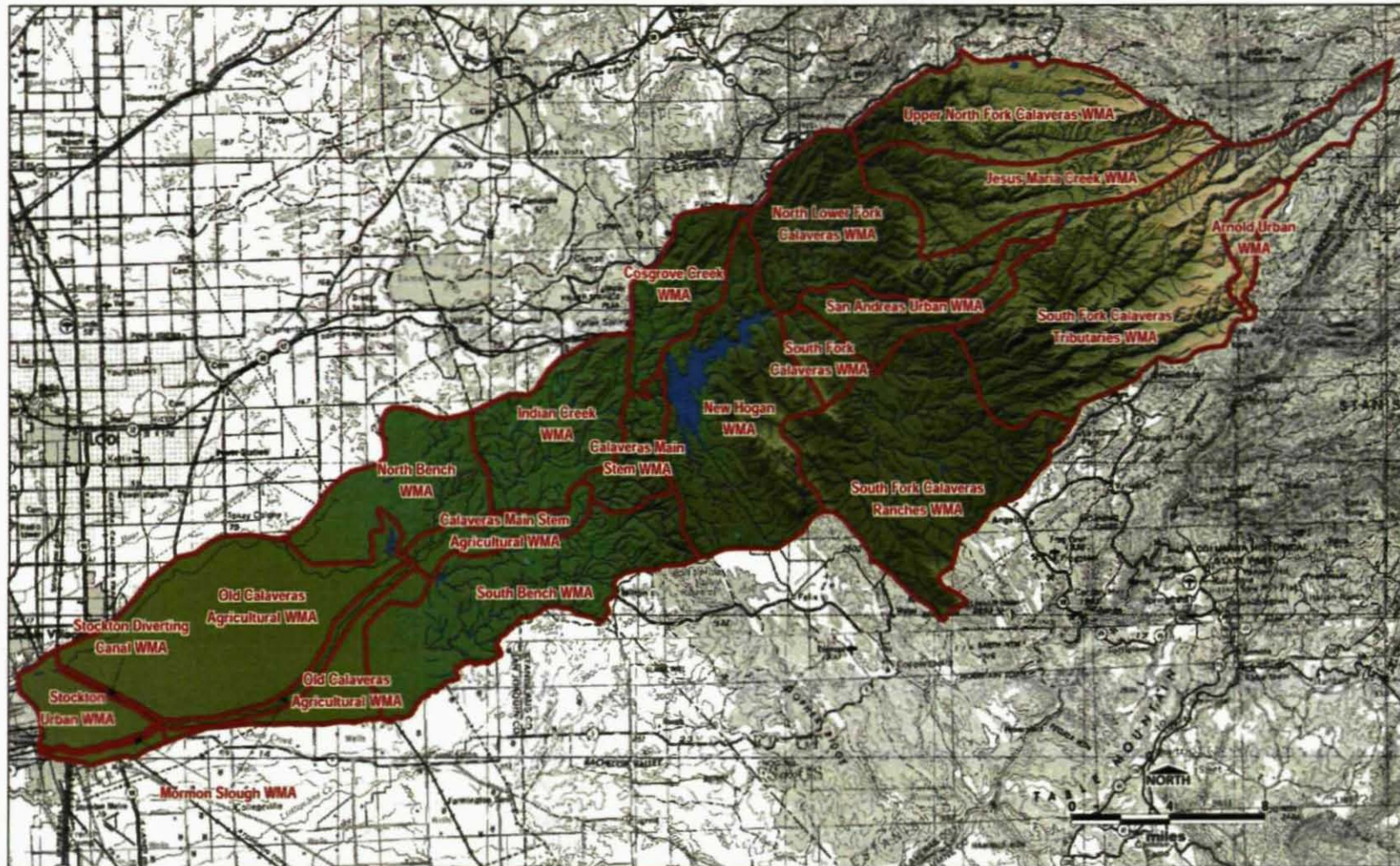


Figure 1-2. Proposed Watershed Management Areas (WMAs).

From Floppy Disc

#141

Site	Date	General WQ						
		Temperature	Conductivity	Dissolved Oxygen	Dissolved Oxygen	pH	ORP	Turbidity
		Deg. C	uS/cm	(%) Saturation	mg/l	units	mV	NTU
L-CAL-1	5/29/03	27.52	410.00	32.50	2.56	8.29	185.70	18.70
L-CAL-1	9/1/03	26.66	300.00	39.00	3.23	7.63	160.30	high
L-CAL-5	5/29/03	20.14	193.00	25.50	2.30	8.19	225.20	2.20
L-CAL-5	9/1/03	21.00	197.00	82.50	7.60	8.40	55.20	0.00
L-CAL-5	5/3/04	17.65	193	40.2	3.83	8.49	85	2.5
L-CAL-6A	9/1/03	19.25	187.00	110.00	10.47	8.79	46.20	0.00
L-CAL-6A dup	9/1/03	19.25	187.00	110.00	10.47	8.79	46.20	0.00
L-CAL-6B	9/1/03	20.17	194.00	73.00	6.75	7.91	46.50	0.00
L-CAL-6C	9/1/03	20.09	193.00	82.00	7.60	8.25	59.00	0.00
L-CAL-Shelton	5/3/04	18.36	179	46	4.55	8.53	99.8	1
L-IC-1	5/27/03	16.49	243.00	6.80	0.66	7.00	159.90	2.40
L-MS-1	5/29/03	dry	dry	dry	dry	dry	dry	dry
L-MS-1	5/3/04	25.33	231	55.7	4.57	8.27	108	3.4
L-MS-4	5/29/03	26.24	233.00	27.70	2.24	7.79	171.10	5.20
L-MS-4	9/1/03	23.98	207.00	21.00	1.88	7.50	98.70	0.00
L-MS-4	5/3/04	18.84	209	46.6	4.32	7.72	123.3	5.1
L-MS-5	9/1/03	26.13	222.00	67.00	5.57	8.05	75.10	0.00
L-MS-6	9/1/03	25.11	236.00	65.00	5.42	8.57	48.60	0.00
L-MS-7	9/1/03	23.05	225.00	62.00	5.42	8.41	14.60	0.00
L-OCAL-1	5/29/03	28.37	202.00	26.00	2.02	7.88	160.90	3.10
L-OCAL-1	9/1/03	24.35	213.00	80.00	6.93	8.00	na	na
L-OCAL-2	9/1/03	22.44	202.00	67.00	6.15	7.89	88.50	0.00
L-OCAL-3	9/1/03	21.40	198.00	82.00	7.45	8.26	90.00	0.00
L-OCAL-4	5/3/04	19.02	203	33.7	3.34	8.28	99.4	5.3
L-SVC-1	5/4/04	19.92	597	147	113.3	7.89	123.2	0.2
M-CAL-1	5/29/03	16.12	193.00	102.00	10.10	8.46	234.30	0.90
M-CAL-1	9/1/03	14.72	185.00	92.00	9.48	8.23	67.00	0.00
M-CAL-1	5/4/04	10.96	157	173.3	19.13	7.9	103.1	0.3
M-CAL-2	5/28/03	14.76	190.00	16.00	1.57	7.95	201.80	2.70
M-CAL-2	9/1/03	14.80	143.00	77.50	8.00	7.50	27.00	0.85
M-CAL-2	5/4/04	10.17	153	138.7	15.59	7.62	122.6	0.8
M-CC-1	5/28/03	24.56	202.00	44.50	3.59	8.28	168.90	1.00
M-CC-2	5/28/03	24.74	122.00	44.30	3.68	8.48	212.80	1.80
M-CGR-1	5/4/04	20.16	685	177.4	16.06	8.49	72.4	0.2
M-CGR-1A	5/27/03	23.54	632.00	173.50	14.78	7.57	261.30	1.00
M-CGR-1B	5/27/03	23.54	632.00	173.50	14.78	7.57	261.30	1.00
M-CGR-2	5/27/03	18.92	661.00	28.10	2.59	7.35	230.20	7.90
M-CGR-2	9/1/03	20.75	764.00	13.00	1.32	7.66	0.00	94.00
M-CGR-2	5/4/04	19.10	692	163.3	5.73	7.59	122.5	0.9
M-CGR-3	5/27/03	18.41	626.00	40.50	3.78	7.31	201.00	2.10
M-CHR-1	5/5/04	20.53	322	109.10	9.81	7.58	123.9	0

Site	Date	General WQ						
		Temperature	Conductivity	Dissolved Oxygen	Dissolved Oxygen	pH	ORP	Turbidity
		Deg. C	uS/cm	(%) Saturation	mg/l	units	mV	NTU
M-CHR-2	5/4/04	19.10	692	163.3	5.73	7.59	122.5	0.9
M-CVTS-1	9/1/03	26.82	1014.00	62.00	5.20	7.86	0.00	1.70
M-CVTS-1	5/4/04	21.57	388	217.20	19.14	8.3	93.7	0.9
M-CVTS-1A	5/28/03	24.05	243.00	33.10	2.79	8.50	237.90	4.60

Site	Date	General WQ						
		Temperature	Conductivity	Dissolved Oxygen	Dissolved Oxygen	pH	ORP	Turbidity
		Deg. C	uS/cm	(%) Saturation	mg/l	units	mV	NTU
M-CVTS-2	9/1/03	22.10	468.00	55.00	4.70	7.00	1.00	1.60
M-CVTS-2	5/5/04	15.54	253	170.00	16.94	7.96	115.2	-0.2
M-IC-1	5/27/03	25.32	315.00	134.40	11.10	8.05	161.10	11.60
M-NCAL-1	5/28/03	21.86	250.00	69.60	6.08	8.10	188.50	2.40
M-NCAL-1	5/4/04	21.87	309	226.80	19.89	8.42	97.6	0.1
M-NCAL-2	9/1/03	23.70	352.50	55.00	4.80	7.60	3.30	1.65
M-NCAL-2	5/4/04	19.52	276	150.60	13.83	7.75	134.6	0.2
M-NHR-1	9/1/03	26.04	192.00	80.00	6.75	8.78	0.00	29.30
M-NHR-1	5/4/04	22.38	208	166.6	14.23	8.6	102.3	0.7
M-SA-1	9/1/03	26.40	169.00	49.00	3.69	7.80	-9.90	0.85
M-SA-1	5/4/04	24.41	134	147.00	12.27	8.43	96.5	1.3
M-SADR-1	5/28/03	21.58	426.00	22.60	1.99	7.80	215.00	2.50
M-SADR-1	5/4/04	19.0	439	128	11.86	7.44	130.7	0.9
M-SCAL-1	9/1/03	25.00	190.00	60.00	5.00	8.30	10.20	0.90
M-SCAL-1	5/4/04	21.97	228	182.00	15.92	8.24	100.8	0.1
M-SD-1	5/5/04	23.21	275	146.00	12.53	7.92	129.3	1.1
M-SVC-1	5/27/03	19.42	597.00	57.90	5.33	8.13	195.80	1.90
M-SVC-1	5/4/04	19.92	597	147	113.3	7.89	123.2	0.2
U-BT-1	9/1/03	10.57	26.00	67.50	7.43	6.71	157.20	0.35
U-BT-1	5/5/04	8.56	51	130.40	15.21	6.79	178.8	
U-COW-1A	9/1/03	16.00	48.00	80.00	7.90	6.70	8.80	1.20
U-COW-1A (further from Arnold)	5/3/04	13.39	61	117.40	12.27	7.43		0
U-COW-1B (closer to Arnold)	5/3/04	16.15	61	111.10	10.96	7.31		0.1
U-COW-2	9/1/03	13.80	109.00	25.00	2.73	5.54	30.00	3.20
U-COW-2 (after confluence of brown and orange)	5/5/04	17.09	81	135.50	12.76	6.99	70	0.4
U-COW-2 (brown)	5/5/04	18.03	78	124.30	11.68	7.17	82.4	0
U-COW-2A (orange)	5/5/04	10.64	98	102.00	11.35	7.7	32.7	0.7
U-COW-2B (orange)	5/5/04	10.64	98	102.00	11.35	7.7	32.7	0.7
U-CVTS-1	5/3/04	19.56	91	108.00	9.9	7.39		1
U-ESP-1	5/3/04	15.10	73	62.50	6.31	6.48		0.7
U-JM-2a	5/3/04	14.7	148	123.50	11.43	7.08		1.1
U-JM-2b	5/3/04	14.7	148	123.50	11.43	7.08		1.1
U-NCAL-1	5/3/04	12.67	118	115.20	12.23	7.36		4.7
U-SA-2	9/1/03	20.30	99.50	37.00	3.40	7.34	-9.40	0.75
U-SA-2	5/5/04	20.37	99	146.60	13.22	7.41	138	0.3
U-SA-3	9/1/03	21.20	66.00	80.00	7.33	6.51	25.70	1.20
U-SA-3	9/1/03	21.20	66.00	80.00	7.33	6.51	25.70	1.20
U-SA-4	9/1/03	23.10	0.07	55.00	4.81	6.34	0.00	2.10
U-SA-4	5/3/04	15.2	55	112.70	12.39	7.68		0.1
U-SA-5	9/1/03	23.30	41.00	67.50	5.74	7.31	58.90	0.68

Site	Date	General WQ						
		Temperature Deg. C	Conductivity uS/cm	Dissolved Oxygen (%) Saturation	Dissolved Oxygen mg/l	pH units	ORP mV	Turbidity NTU
U-SA-5	5/5/04	16.19	62	141.90	13.95	6.79	164.2	-0.3
U-SA-6	9/1/03	15.33	32.00	62.50	6.29	7.55	9.73	0.23
U-SA-6	5/5/04	8.7	51	145.30	16.9	7.24	145	-0.2
U-SD-1	5/3/04	17.01	129	120.90	11.69	7.63		0.1
U-SD-2	5/5/04	22.23	279	145.70	12.67	8.21	116.2	2
U-WPL-1	9/1/03	24.05	40.00	82.50	7.01	7.71	93.10	2.75
U-WPL-1	5/5/04	16	61	152.90	14.89	7.48	143.7	0.1

SONY

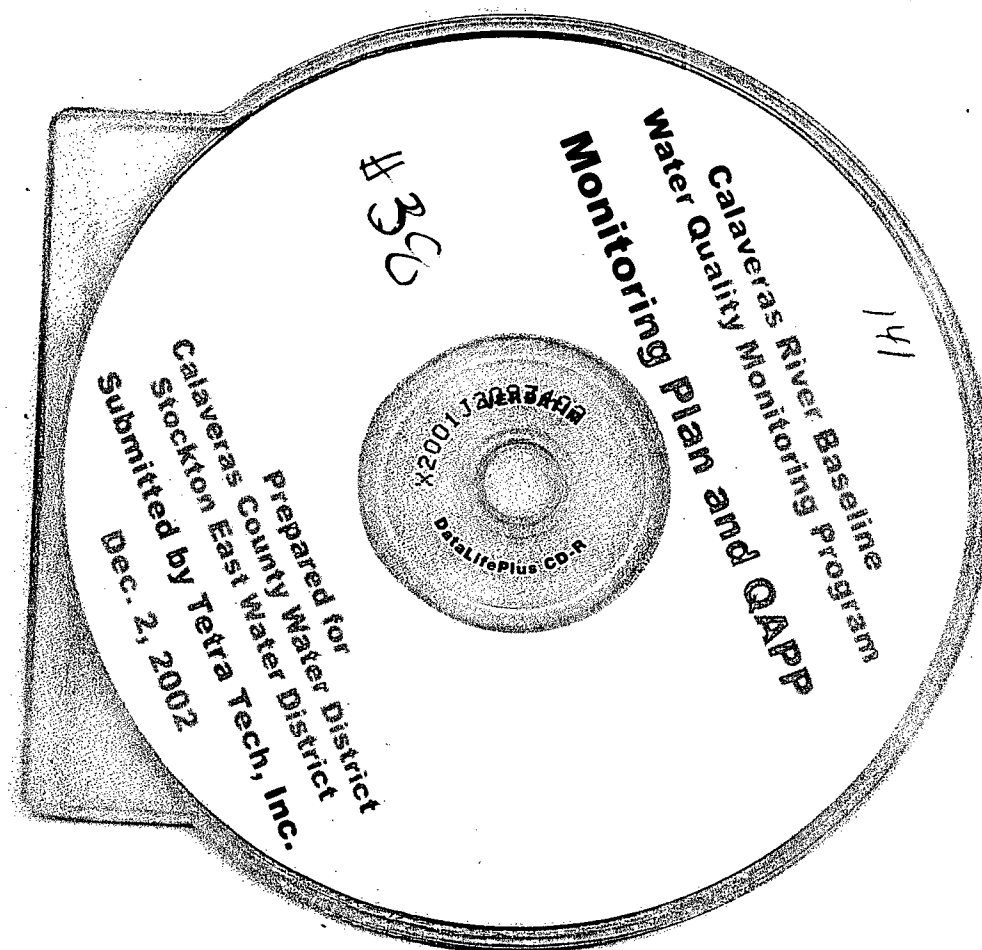
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#38 Cabveras Riv. Baseline

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Calaveras River Baseline
Water Quality Monitoring program
Monitoring Plan and QAPP

Prepared for
Calaveras County Water District
Stockton East Water District
Submitted by Tetra Tech, Inc.
Dec. 2, 2002

