Prepared

City of San Buer

City of San Buenaventura
Jim Passanisi
Water Superintendent
Public Works Department
Water/Utilities Division
336 Sanjon Road, P.O. Box 99
Ventura, CA 93002-0099
(805) 652-4504
Cell: (805) 797-1182
Fax: (805) 643-7615
jpassanisi@ci.ventura.ca.us

Ventura River / San Antonio Creek Watershed Sanitary Survey 2000 Update

Volume 1

Final Report

May 2001

Prepared By

BOYLE ENGINEERING CORPORATION

TABLE 7-1
SAN ANTONIO CREEK NEAR OLD CREEK ROAD (STATION SA1)
AVERAGE MONTHLY WATER QUALITY DATA

Date	Temperature (°C)	pH (units)	Conductivity (µhoms/cm)	Turbidity (NTU)
Average (1989-1984)	19.5	8.04	1180.4	9.19
1995				
Jan-95	14.5	7.40	1130.0	2.00
Feb-95	17.0	7.55	1090.0	5.50
Mar-95	16.9	8.27	770.0	40.00
Apr-95	20.3	8.33	740.0	4.00
May-95	22.0	8.39	990.0	0.40
Jun-95	21.7	8.47	970.0	0.35
Jul-95	26.9	8.36	1070.0	0.25
Aug-95	26.8	8.36	1100.0	0.35
Sep-95	24.9	8.24	1120.0	0.85
Oct-95	--	8.28	1140.0	1.40
Nov-95	--	8.29	1120.0	0.40
Dec-95	--	8.07	1130.0	0.70
1996				
Jan-96	16.2	8.09	1180.0	1.60
Feb-96	16.2	8.16	1170.0	2.30
Mar-96	15.8	8.16	1100.0	0.55
Apr-96	16.2	8.14	1160.0	1.50
May-96	23.8	8.61	1090.0	0.50
Jun-96	17.8	8.01	1150.0	0.25
Jul-96	28.0	8.51	1160.0	0.40
Aug-96	26.0	8.40	1180.0	0.40
Sep-96	25.9	8.28	1180.0	0.40
Oct-96	24.8	8.26	1070.0	0.25
Nov-96	17.4	7.99	1050.0	0.60
Dec-96	15.7	8.34	1060.0	0.35
1997				
Jan-97	13.3	8.20	1080.0	0.75
Feb-97	17.7	8.21	1020.0	1.80
Mar-97	18.4	8.32	1030.0	0.40
Apr-97	19.1	8.51	1020.0	0.20
May-97	21.7	8.47	1090.0	0.20
Jun-97	22.4	8.16	1170.0	0.40
Jul-97	22.5	7.97	1140.0	0.55
Aug-97	26.7	8.20	1170.0	0.35
Sep-97	25.0	8.11	1230.0	0.25
Oct-97	25.1	8.10	1170.0	0.45
Nov-97	--	7.80	1210.0	0.30
Dec-97	17.8	7.93	1120.0	1.70

TABLE 7-1
SAN ANTONIO CREEK NEAR OLD CREEK ROAD (STATION SA1)
AVERAGE MONTHLY WATER QUALITY DATA

Date	Temperature (°C)	pH (units)	Conductivity (µhoms/cm)	Turbidity (NTU)
1998				
Jan-98	14.0	7.83	1130.0	0.40
Feb-98	13.2	7.79	350.0	800.00
Mar-98	17.5	8.21	940.0	280.00
Apr-98	15.0	8.31	760.0	16.00
May-98	15.9	8.46	700.0	1.30
Jun-98	20.8	8.28	980.0	0.90
Jul-98	23.2	8.24	1050.0	0.25
Aug-98	24.3	8.36	750.0	0.30
Sep-98	25.5	8.30	1120.0	1.55
Oct-98	22.3	8.33	1210.0	2.00
Nov-98	18.3	8.38	1040.0	1.00
Dec-98	12.1	8.32	1150.0	0.25
1999				
Jan-99	13.7	8.27	1090.0	0.40
Feb-99	17.7	8.24	1050.0	3.70
Mar-99	19.7	8.67	1010.0	0.40
Apr-99	17.4	8.59	970.0	0.50
May-99	21.5	8.55	1020.0	1.70
Jun-99	23.6	8.47	1010.0	0.80
Jul-99	29.5	8.59	1000.0	1.10
Aug-99	25.3	8.36	1010.0	0.90
Sep-99	28.0	8.04	1150.0	0.65
Oct-99	26.0	8.10	1160.0	0.50
Nov-99	19.5	8.01	1210.0	0.55
Dec-99	--	8.02	1130.0	0.30
2000				
Jan-00	14.5	8.05	1100.0	0.20
Feb-00	19.0	7.80	1100.0	0.60
Mar-00	14.8	7.90	460.0	900.00
Apr-00	23.0	--	--	--
May-00	24.5	--	--	--
Jun-00	24.0	--	--	--
Jul-00	24.5	--	--	--
Average (1995-2000)	20.5	8.21	1048	33.16
Median (1995-2000)				0.6

TABLE 7-2
VENTURA RIVER AT SANTA ANA BOULEVARD (STATION VR2)
AVERAGE MONTHLY WATER QUALITY DATA

Date	Temperature (°C)	pH (units)	Conductivity (µhoms/cm)	Turbidity (NTU)
Average (1989-1984)	20.9	8.2	745.4	36.8
1995				
Jan-95	--	--	--	--
Feb-95	18.0	7.70	710	3.50
Mar-95	16.4	8.31	750	17.00
Apr-95	20.4	8.25	1060	0.65
May-95	20.8	8.38	710	0.25
Jun-95	22.4	8.49	680	0.15
Jul-95	27.2	8.48	760	0.20
Aug-95	27.5	8.41	780	0.40
Sep-95	27.1	8.41	730	0.50
Oct-95	--	8.43	770	0.80
Nov-95	--	--	--	--
Dec-95	--	--	--	--
1996				
Jan-96	19.3	8.28	770	0.25
Feb-96	19.2	8.45	760	0.45
Mar-96	16.5	8.41	710	0.55
Apr-96	16.9	8.36	740	0.2
May-96	N/A	--	--	--
Jun-96	N/A	--	--	--
Jul-96	--	--	--	--
Aug-96	--	--	--	--
Sep-96	N/A	--	--	--
Oct-96	N/A	--	--	--
Nov-96	N/A	--	--	--
Dec-96	N/A	--	--	--
1997				
Jan-97	15.6	7.66	820	0.25
Feb-97	20.6	8.35	720	0.3
Mar-97	20.5	8.58	690	0.15
Apr-97	22.8	8.45	680	0.1
May-97	26.1	8.41	780	0.25
Jun-97	27	8.38	810	0.25
Jul-97	no sample			
Aug-97	no flow			
Sep-97	n/s			
Oct-97	--	--	--	--
Nov-97	--	--	--	--
Dec-97	no sample			

TABLE 7-2
VENTURA RIVER AT SANTA ANA BOULEVARD (STATION VR2)
AVERAGE MONTHLY WATER QUALITY DATA

Date	Temperature (°C)	pH (units)	Conductivity (µhoms/cm)	Turbidity (NTU)
1998				
Jan-98	15.3	8.13	720	0.4
Feb-98	13.1	7.88	310	712
Mar-98	16.3	8.07	680	390
Apr-98	15.9	8.23	760	14.8
May-98	16.9	8.47	690	1.35
Jun-98	22.2	8.47	680	0.2
Jul-98	23.8	8.27	760	0.2
Aug-98	24.6	8.34	820	0.55
Sep-98	26.3	8.33	780	1.75
Oct-98	24.2	8.48	820	1
Nov-98	20.3	8.6	700	0.65
Dec-98	16.1	8.55	760	0.25
1999				
Jan-99	17.8	8.51	730	0.4
Feb-99	14.1	8.55	680	0.8
Mar-99	21.2	8.61	700	0.6
Apr-99	19.9	8.5	660	0.6
May-99	23.3	8.54	720	0.9
Jun-99	26.5	8.47	710	4
Jul-99	no flow			
Aug-99	--	--	--	--
Sep-99	--	--	--	--
Oct-99	--	--	--	--
Nov-99	--	--	--	--
Dec-99	--	--	--	--
2000				
Jan-00	no flow			
Feb-00	no flow			
Mar-00	14.7	8	410	140
Apr-00	23	--	--	--
May-00	23.5	--	--	--
Jun-00	25	--	--	--
Jul-00	no flow			
Average (1995-2000)	20.7	8.35	724	34.12
Median (1995-2000)				0.5

TABLE 7-3
VENTURA RIVER AT CASITAS SPRINGS (STATION VR1)
AVERAGE MONTHLY WATER QUALITY DATA

Date	Temperature (°C)	pH (units)	Conductivity (µhoms/cm)	Turbidity (NTU)
Average (1989-1994)	20.2	8.11	918	7.77
Jan-95	15.0	7.73	930	0.25
Feb-95	18.3	7.70	760	5.50
Mar-95	19.3	8.31	630	18.00
Apr-95	20.9	8.22	830	0.65
May-95	21.8	8.36	770	0.40
Jun-95	22.1	8.14	770	0.25
Jul-95	23.4	7.71	880	0.20
Aug-95	23.8	7.63	920	0.35
Sep-95	22.6	7.47	930	0.90
Oct-95	--	7.74	870	1.30
Nov-95	--	--	--	--
Dec-95	--	--	--	--
1995 Average to Date	20.8	7.92	824	2.94
1996				
Jan-96	19.5	7.56	870	0.20
Feb-96	16.5	7.71	1020	0.20
Mar-96	15.1	7.87	800	0.30
Apr-96	16.9	7.67	960	0.40
May-96	19.6	7.55	990	0.20
Jun-96	18.4	7.54	970	0.20
Jul-96	26.5	8.23	930	0.95
Aug-96	26.5	8.25	930	0.50
Sep-96	no flow			
Oct-96	no flow			
Nov-96	no flow			
Dec-96	no flow			
1997				
Jan-97	14.1	8.63	680	0.25
Feb-97	16.7	7.81	840	0.45
Mar-97	16.9	7.66	800	0.35
Apr-97	18.4	7.6	890	0.30
May-97	25.2	7.55	960	0.85
Jun-97	n/a			
Jul-97	22.3	7.92	860	0.65
Aug-97	28.9	7.88	910	3.70
Sep-97	no flow			
Oct-97	no flow			
Nov-97	no flow			
Dec-97	no flow			

TABLE 7-3
VENTURA RIVER AT CASITAS SPRINGS (STATION VR1)
AVERAGE MONTHLY WATER QUALITY DATA

Date	Temperature (°C)	pH (units)	Conductivity (µhoms/cm)	Turbidity (NTU)
1998				
Jan-98	15.20	8.10	1020	0.65
Feb-98	13.00	7.80	350	770.00
Mar-98	16.00	8.25	670	223.00
Apr-98	15.30	8.16	760	16.40
May-98	16.80	8.47	690	1.25
Jun-98	23.10	8.41	770	1.25
Jul-98	24.50	8.29	850	0.30
Aug-98	24.40	8.27	1090	0.40
Sep-98	25.80	8.29	860	1.95
Oct-98	22.80	8.42	930	1.00
Nov-98	19.40	8.52	790	0.70
Dec-98	16.20	8.57	870	0.45
1990				
Jan-99	16.70	8.47	820	0.30
Feb-99	16.60	8.43	840	1.80
Mar-99	20.80	8.51	810	0.60
Apr-99	18.20	8.48	780	0.35
May-99	21.50	8.47	800	0.40
Jun-99	24.00	8.47	800	0.55
Jul-99	29.10	8.44	810	0.40
Aug-99	25.00	8.21	780	0.40
Sep-99	no flow			
Oct-99	no flow			
Nov-99	no flow			
Dec-99	no flow			
2000				
Jan-00	no flow			
Feb-00	no flow			
Mar-00	13.00	7.95	350	560.00
Apr-00	23.00			
May-00	24.00			
Jun-00	25.00			
Jul-00	no flow			
Aug-00	no flow			
Sep-00				
Oct-00				
Nov-00				
Dec-00				
Average (1995-2000)	20.4	8.1	829.1	35.2
Median (1995-2000)				0.45

TABLE 7-4
VENTURA RIVER AT FOSTER PARK
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	1/3/95	2/4/95	3/6/95	4/3/95	5/1/95	6/5/95	7/10/95	8/7/95	9/11/95	10/2/95	11/6/95
Calcium (Ca)	mg/l				118	87	117	107	108	108	127	105	107	108
Magnesium (Mg)	mg/l				28.7	23.7	32	35.5	33.2	33.3	34.1	33	33.6	33.4
Sodium (Na)	mg/l				39	29	33	42	43	44	48	48	44	62
Potassium (K)	mg/l			N	3.5	2	2.2	2.3	2.4	2	2.4	2.7	2.7	3.9
Alkalinity (CaCO3)	mg/l			O	179	152	174	162	168	155	197	146	160	154
Hydroxide (OH)	mg/l				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbonate (CO3)	mg/l			D	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO3)	mg/l			A	219	185	212	198	205	189	241	178	195	187
Sulfate (SO4)	mg/l	250 R	250 R	T	228	166	251	243	238	240	246	247	239	248
Chloride (Cl)	mg/l	250 R	250 R	A	16	7	12	15	21	29	26	24	26	31
Nitrate (NO3)	mg/l	45 M	45 M		7..5	5.8	7.5	9.3	7.5		7.1		4.4	4.4
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M		0.26	0.37	0.42	0.37	0.94	0.48	0.33	0.47	0.61	0.64
Copper (Cu)	µg/l	1000 R	1000 R											
Iron (Fe)	µg/l	300 R	300 R		500*	<100	<100	<100	<100	<100	<100	<100	<100	<100
Manganese (Mn)	µg/l	50 R	50 R		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Zinc (Zn)	µg/l	5000 R	5000 R											
Foaming Agents (MBAS)	mg/l	0.5 R	0.5 R								0.06			
pH	units	6.5-8.6 R			7.5	8.27	8.26	8.46	8.36		7.77		8.55	8.3
Electrical Conductance (EC)	µmhos/cm	900 R	900 R		780	620	850	800	800		920*		890	820
Dissolved Solids (TDS)	mg/l	500 R	500 R		546*	492	556*	580*	644*	668*	736*	588*	572*	628*
Hardness (CaCO3)	mg/l				413	316	425	413	406	407	457	398	405	407
Boron (B)	mg/l				0.25	0.19	0.22	0.27	0.3	0.81	0.29	0.29	0.34	0.35
Phosphate (PO4)	mg/l				0.34	0.68	0.08	0.07	<.03	0.02	0.02	0.02	<.01	<.01
Silica	mg/l													
General Physical														
Color (Unfiltered)			15		<3	100	5	3	5	<3	<3	<3	5	3
Odor (at 60 deg C)	TON		3											
Temperature	°C				18.5	17.6	20.8	21.1	21.3		25.5		24.9	20.4
Langlier Index					0.21	0.76	1.01	1.15	1.07		0.72		1.33	0.95
Lab Turbidity	NTU		5.00		5.5	0.5	2	0.3	0.35		0.25		0.6	0.7
Inorganic Chemical														
Arsenic (As)	µg/l	50 M	50 M											
Barium (Ba)	µg/l	1000 M	1000 M											
Cadmium (Cd)	µg/l	10 M	5 M											
Chromium (Total Cr)	µg/l	50 M	50 M											
Lead (Pb)	µg/l	50 M												
Mercury (Hg)	µg/l	2 M	2 M											
Selenium (Se)	µg/l	10 M	50 M											
Silver (Ag)	µg/l	50 M	50 M											
Aluminum (Al)	µg/l	1000 M	1000 M											

M = Mandatory Limit
R = Recommended Limit
* Exceeds Drinking Water Standard

TABLE 7-4
VENTURA RIVER AT FOSTER PARK
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	12/4/95	1/8/96	2/5/96	3/4/96	4/1/96	5/6/96	6/3/96	7/1/96	8/5/96	9/9/96	10/7/96
Calcium (Ca)	mg/l			103	102	130	128	114	109	130	113	126		
Magnesium (Mg)	mg/l			30.8	31.2	34	32.4	31.4	33.1	27.1	28.6	31.6		
Sodium (Na)	mg/l			45	39	56	45	51	52	63	50	38		
Potassium (K)	mg/l			2.4	1.9	2.5	2.3	2.2	2.4	3.9	3.7	2.7	N	N
Alkalinity (CaCO3)	mg/l			161	185	201	197	162	159	216	183	176	O	O
Hydroxide (OH)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1		
Carbonate (CO3)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	D	D
Bicarbonate (HCO3)	mg/l			196	226	245	241	198	194	264	224	230	A	A
Sulfate (SO4)	mg/l	250 R	250 R	246	247	245	241	247	249	250*	234	246	T	T
Chloride (Cl)	mg/l	250 R	250 R	29	34	42	33	37	39	38	32	37	A	A
Nitrate (NO3)	mg/l	45 M	45 M	4.9		8	8.4	8	4.4	3.5	6.2	2.2		
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.53	0.44	0.2	0.36	0.16	0.37	0.51	0.4	0.5		
Copper (Cu)	µg/l	1000 R	1000 R									<50		
Iron (Fe)	µg/l	300 R	300 R	<100		100	<100	<100	<100	<100	<100	<100		
Manganese (Mn)	µg/l	50 R	50 R	<30		<30	<30	<30	<30	<30	<30	<30		
Zinc (Zn)	µg/l	5000 R	5000 R									<50		
Foaming Agents (MBAS)	mg/l	0.5 R	0.5 R									<.05		
pH	units	6.5-8.6 R		8.63		8.32	8.3	8.3	8.44	7.98	8.26	8.16		
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	810		910*	820	900*	910*	940*	970*	940*		
Dissolved Solids (TDS)	mg/l	500 R	500 R	676*		704*	680*	624*	632*	688*	1100*	788*		
Hardness (CaCO3)	mg/l			384	383	465	453	414	408	436	400	415		
Boron (B)	mg/l			0.33	0.33	0.29	0.22	0.32	0.32	0.35	0.31	0.29		
Phosphate (PO4)	mg/l			<.10	0.04	0.1	0.05	<.01	0.02	<.01	<.01	<.01		
Silica	mg/l													
General Physical														
Color (Unfiltered)			15	<3	<3	10	5	10	<3	<3	<3	<3		
Odor (at 60 deg C)	TON		3											
Temperature	°C			19.2		18.3	17.2	17.8	23.8		25.2	23.2		
Langlier Index				1.25		1.11	1.05	0.93	1.19		1.1	0.96		
Lab Turbidity	NTU		5.00	0.4		1.8	0.8	0.5	0.45	0.3	0.35	0.5		
Inorganic Chemical														
Arsenic (As)	µg/l	50 M	50 M									<5		
Barium (Ba)	µg/l	1000 M	1000 M									<100		
Cadmium (Cd)	µg/l	10 M	5 M									<1.0		
Chromium (Total Cr)	µg/l	50 M	50 M									<10		
Lead (Pb)	µg/l	50 M										<5		
Mercury (Hg)	µg/l	2 M	2 M									<1.0		
Selenium (Se)	µg/l	10 M	50 M									<5		
Silver (Ag)	µg/l	50 M	50 M									<10		
Aluminum (Al)	µg/l	1000 M	1000 M									<50		

M = Mandatory Limit

R = Recommended Limit

* Exceeds Drinking Water Standard

TABLE 7-4
VENTURA RIVER AT FOSTER PARK
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	11/4/96	12/2/96	1/6/97	2/3/97	3/3/97	4/7/97	5/5/97	6/2/97	7/7/97	8/4/97	9/8/97
Calcium (Ca)	mg/l					125	134	104	108	105	106	110	98	
Magnesium (Mg)	mg/l					34.4	37	31.8	32.9	31.7	30.9	30.5	29.9	
Sodium (Na)	mg/l					56	47	44	50	50	49	46	47	
Potassium (K)	mg/l			N	N	2..3	2.6	2	2	2.2	2.5	2.4	2.3	N
Alkalinity (CaCO3)	mg/l			O	O	219	214	155	161	164	172	181	155	O
Hydroxide (OH)	mg/l					<1	<1	<1	<1	<1	<1	<1	<1	
Carbonate (CO3)	mg/l			D	D	<1	<1	<1	<1	<1	<1	<1	<1	D
Bicarbonate (HCO3)	mg/l			A	A	267	261	189	197	200	209	221	189	A
Sulfate (SO4)	mg/l	250 R	250 R	T	T	264*	271*	246	243	241	233	233	232	T
Chloride (Cl)	mg/l	250 R	250 R	A	A	43	39	28	38	39	38	38	38	A
Nitrate (NO3)	mg/l	45 M	45 M			9.7	13.7	5.4	11.1	9.3	7.1	5.8	4	
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M			0.6	0.53	0.48	0.48	0.47	0.48	0.49	0.5	
Copper (Cu)	µg/l	1000 R	1000 R								<50			
Iron (Fe)	µg/l	300 R	300 R			200	100	<100	<100	<100	<100	<100	<100	
Manganese (Mn)	µg/l	50 R	50 R			<30	<30	<30	<30	<30	<30	<30	<30	
Zinc (Zn)	µg/l	5000 R	5000 R								<50			
Foaming Agents (MBAS)	mg/l	0.5 R	0.5 R								<.05			
pH	units	6.5-8.6 R				8.41	8.33	7.76	8.4	8.32	8.28	8.27	8.3	
Electrical Conductance (EC)	µmhos/cm	900 R	900 R			880	960*	760	860	920*	940*	880	860	
Dissolved Solids (TDS)	mg/l	500 R	500 R			620*	720*	620*	608*	656*	616*	684*	700*	
Hardness (CaCO3)	mg/l					454		391	405	393	392	400	367	
Boron (B)	mg/l					0.37	0.41	0.27	0.27	0.3	0.3	0.38	0.34	
Phosphate (PO4)	mg/l					0.15	0.16	<.01	<.01	<.01	<.01	<.01	<.01	
Silica	mg/l													
General Physical														
Color (Unfiltered)			15			5	10	5	<3	<3	<3	<3	5	
Odor (at 60 deg C)	TON		3											
Temperature	°C					15.1	19.6	20.5	20.8	23.7	24.2	23.8	27.5	
Langlier Index						1.15	1.19	0.4	1.08	1.07	1.07	1.08	1.08	
Lab Turbidity	NTU		5.00			<400	2.5	0.45	0.2	0.3	0.25	0.35	0.2	
Inorganic Chemical														
Arsenic (As)	µg/l	50 M	50 M								<25			
Barium (Ba)	µg/l	1000 M	1000 M								<100			
Cadmium (Cd)	µg/l	10 M	5 M								<1.0			
Chromium (Total Cr)	µg/l	50 M	50 M								<10			
Lead (Pb)	µg/l	50 M									<25			
Mercury (Hg)	µg/l	2 M	2 M								<1			
Selenium (Se)	µg/l	10 M	50 M								<25			
Silver (Ag)	µg/l	50 M	50 M								<10			
Aluminum (Al)	µg/l	1000 M	1000 M								<50			

M = Mandatory Limit
R = Recommended Limit
* Exceeds Drinking Water Standard

TABLE 7-4
VENTURA RIVER AT FOSTER PARK
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	10/6/97	11/3/97	12/1/97	1/5/98	2/2/98	3/2/98	4/6/98	5/4/98	6/1/98	7/6/98	8/3/98
Calcium (Ca)	mg/l						126	46	121	113	98	101	100	102
Magnesium (Mg)	mg/l						34.4	11.4	30.1	30.3	31	34.4	26.4	29.6
Sodium (Na)	mg/l						56	16	33	34	36	41	41	42
Potassium (K)	mg/l			N	N	N	2.5	2.7	2.4	2.2	2	2.2	2.5	3.1
Alkalinity (CaCO3)	mg/l			O	O	O	204	102	202	192	171	158	178	158
Hydroxide (OH)	mg/l						<1	<1	<1	<1	<1	<1	<1	<1
Carbonate (CO3)	mg/l			D	D	D	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO3)	mg/l			A	A	A	249	124	247	234	209	193	218	193
Sulfate (SO4)	mg/l	250 R	250 R	T	T	T	239	81	240	212	229	243	247	241
Chloride (Cl)	mg/l	250 R	250 R	A	A	A	56	6	16	13	13	14	20	23
Nitrate (NO3)	mg/l	45 M	45 M				8.4	5.3	9.7	6.2	4.9	4.9	8.9	6.6
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M				0.52	0.31	0.51	0.39	0.43	0.4	0.47	0.49
Copper (Cu)	µg/l	1000 R	1000 R									<50		
Iron (Fe)	µg/l	300 R	300 R				<100	200	400*	600*	<100	<100	<100	<100
Manganese (Mn)	µg/l	50 R	50 R				40	<30	<30	<30	<30	<30	<30	<30
Zinc (Zn)	µg/l	5000 R	5000 R									<50		
Foaming Agents (MBAS)	mg/l	0.5 R	0.5 R									<0.05		
pH	units	6.5-8.6 R					8.25	7.76	7.71	8.2	8.29	8.31	8.3	8.16
Electrical Conductance (EC)	µmhos/cm	900 R	900 R				880	350	850	770	770	810	880	880
Dissolved Solids (TDS)	mg/l	500 R	500 R				540*	232	632*	624*	596*	576*	660*	640*
Hardness (CaCO3)	mg/l						456	161	426	407	373	394	358	377
Boron (B)	mg/l						0.32	0.11	0.17	0.2	0.23	0.21	0.19	0.25
Phosphate (PO4)	mg/l						<.01	0.41	0.32	0.22	<.01	<.01	<.01	<.01
Silica	mg/l													
General Physical														
Color (Unfiltered)			15				<3	2000	300	100	10	5	5	10
Odor (at 60 deg C)	TON		3									<1		
Temperature	°C						13.8	13.4	14.8	16.2		21.3	21	23.9
Langlier Index							0.93	-0.27	0.39	0.86		0.97	0.99	0.88
Lab Turbidity	NTU		5.00				0.45	920	90	27.5	4.2	1	0.1	0.75
Inorganic Chemical														
Arsenic (As)	µg/l	50 M	50 M									<5		
Barium (Ba)	µg/l	1000 M	1000 M									<100		
Cadmium (Cd)	µg/l	10 M	5 M									<1		
Chromium (Total Cr)	µg/l	50 M	50 M									<10		
Lead (Pb)	µg/l	50 M										<5		
Mercury (Hg)	µg/l	2 M	2 M									<1		
Selenium (Se)	µg/l	10 M	50 M									<5		
Silver (Ag)	µg/l	50 M	50 M									<10		
Aluminum (Al)	µg/l	1000 M	1000 M									<50		

M = Mandatory Limit
R = Recommended Limit
* Exceeds Drinking Water Standard

TABLE 7-4
VENTURA RIVER AT FOSTER PARK
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	9/14/98	10/5/98	11/9/98	12/7/98	1/4/99	2/1/99	3/1/99	4/5/99	5/10/99	6/7/99	7/12/99
Calcium (Ca)	mg/l			94	104	87	109	109	116	115	103	96	89	83
Magnesium (Mg)	mg/l			28.5	30.9	23.5	31.1	37	30.5	28.8	31.9	33.1	29.2	29.8
Sodium (Na)	mg/l			44	2.3	45	49	32	51	48	43	45	48	45
Potassium (K)	mg/l			2.8	2.3	2.4	1.5	2.5	2.7	2	2.1	2.4	2.3	2.7
Alkalinity (CaCO3)	mg/l			172	167	156	169	169	199	189	174	161	185	132
Hydroxide (OH)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbonate (CO3)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO3)	mg/l			209	204	191	206	206	242	230	212	196	226	162
Sulfate (SO4)	mg/l	250 R	250 R	222	225	230	269*	256*	258*	247	266*	258*	347*	241
Chloride (Cl)	mg/l	250 R	250 R	18	20	29	30	34	44	37	36	37	35	32
Nitrate (NO3)	mg/l	45 M	45 M		3.1	6.2	12.4	4.4	9.7	6.6	4.4			
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.49	0.5	0.55	0.47	0.47	0.46	0.45	0.49	0.46	0.6	0.46
Copper (Cu)	µg/l	1000 R	1000 R											
Iron (Fe)	µg/l	300 R	300 R	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Manganese (Mn)	µg/l	50 R	50 R	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Zinc (Zn)	µg/l	5000 R	5000 R											
Foaming Agents (MBAS)	mg/l	0.5 R	0.5 R											
pH	units	6.5-8.6 R			8.37	8.26	8.55	8.1	8.58	8.56	8.41			
Electrical Conductance (EC)	µmhos/cm	900 R	900 R		920*	800	850	820	790	820	760			
Dissolved Solids (TDS)	mg/l	500 R	500 R	588*	668*	608*	612*	568*	536*	620*	626*	600*	584*	608*
Hardness (CaCO3)	mg/l			352	387	313	400	424	415	406	388	375	342	330
Boron (B)	mg/l			0.35	0.29	0.28	0.33	0.32	0.28	0.31	0.3	0.23	0.31	0.4
Phosphate (PO4)	mg/l			<.01	<.01	<.01	<.01	<.01	<.01	0.16	<.10	0.11	0.08	<.01
Silica	mg/l													
General Physical														
Color (Unfiltered)			15	10	5	<3	<3	5	5	3	<3	10	3	10
Odor (at 60 deg C)	TON		3											
Temperature	°C				21.1	20.4	14.5	16.8	16.5	20.1	17.6			
Langlier Index					1.05	0.82	1.1	0.71	1.28	1.32	1.02			
Lab Turbidity	NTU		5.00		0.8	0.5	1	0.6	2.2	0.7	0.6			
Inorganic Chemical														
Arsenic (As)	µg/l	50 M	50 M											
Barium (Ba)	µg/l	1000 M	1000 M											
Cadmium (Cd)	µg/l	10 M	5 M											
Chromium (Total Cr)	µg/l	50 M	50 M											
Lead (Pb)	µg/l	50 M												
Mercury (Hg)	µg/l	2 M	2 M											
Selenium (Se)	µg/l	10 M	50 M											
Silver (Ag)	µg/l	50 M	50 M											
Aluminum (Al)	µg/l	1000 M	1000 M											

M = Mandatory Limit
R = Recommended Limit
* Exceeds Drinking Water Standard

TABLE 7-4
VENTURA RIVER AT FOSTER PARK
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	8/9/99	9/13/99	10/4/99	11/1/99	12/6/99	1/10/00	2/7/00
Calcium (Ca)	mg/l			84	117	99	102	110	112	98
Magnesium (Mg)	mg/l			29.3	31.3	31.6	32.1	29.8	34.5	29.5
Sodium (Na)	mg/l			38	41	43	43	50	55	61
Potassium (K)	mg/l			2.4	2.4	2.4	1.7	1.9	2.4	2.4
Alkalinity (CaCO3)	mg/l			129	145	162	142	201	270	162
Hydroxide (OH)	mg/l			<1	<1	<1	<1	<1	<1	<1
Carbonate (CO3)	mg/l			<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO3)	mg/l			158	166	198	173	245	251	198
Sulfate (SO4)	mg/l	250 R	250 R	235	245	241	268*	243	243	224
Chloride (Cl)	mg/l	250 R	250 R	31	31	33	45	47	48	56
Nitrate (NO3)	mg/l	45 M	45 M				5.3	4.4		<1.8
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.47	0.49	0.42	0.48	0.49	0.46	0.45
Copper (Cu)	µg/l	1000 R	1000 R							
Iron (Fe)	µg/l	300 R	300 R	<100	<100	<100	<100	<100	<100	<100
Manganese (Mn)	µg/l	50 R	50 R	<30	<30	<30	<30	<30	<30	<30
Zinc (Zn)	µg/l	5000 R	5000 R							
Foaming Agents (MBAS)	mg/l	0.5 R	0.5 R							
pH	units	6.5-8.6 R					8.17	8.15		7.95
Electrical Conductance (EC)	µmhos/cm	900 R	900 R				860	890		860
Dissolved Solids (TDS)	mg/l	500 R	500 R	648*	576*	604*	584*	652*	628*	688*
Hardness (CaCO3)	mg/l			331	421	378	387	397	422	366
Boron (B)	mg/l			0.31	0.31	0.35	0.33	0.33	0.33	0.39
Phosphate (PO4)	mg/l			<.01	0.03	0.05	0.02	0.06	<.01	0.13
Silica	mg/l									
General Physical										
Color (Unfiltered)			15	<3	5	10	10	10	5	10
Odor (at 60 deg C)	TON		3							
Temperature	°C						19	15.5		19
Langlier Index							0.73	0.8		0.54
Lab Turbidity	NTU		5.00				0.6	0.5		0.65
Inorganic Chemical										
Arsenic (As)	µg/l	50 M	50 M							
Barium (Ba)	µg/l	1000 M	1000 M							
Cadmium (Cd)	µg/l	10 M	5 M							
Chromium (Total Cr)	µg/l	50 M	50 M							
Lead (Pb)	µg/l	50 M								
Mercury (Hg)	µg/l	2 M	2 M							
Selenium (Se)	µg/l	10 M	50 M							
Silver (Ag)	µg/l	50 M	50 M							
Aluminum (Al)	µg/l	1000 M	1000 M							

M = Mandatory Limit
R = Recommended Limit
* Exceeds Drinking Water Standard

TABLE 7-5
VENTURA RIVER INTAKE - ORGANIC WATER QUALITY ANALYSIS

Purgeable Organic Analyses Test Method	Constituent	Units	EPA MCL	Calif MCL	06/02/97	03/23/99
EPA 504	All constituents	µg/l	-	-	ND	
EPA 505	All constituents	µg/l	-	-		
EPA 515.1	All constituents	µg/l	-	-	ND	
EPA 524.2	All constituents	µg/l	-	-		
EPA 525	All constituents	µg/l	-	-		
EPA 531.	All constituents	µg/l	-	-		
EPA 549	All constituents	µg/l	-	-	ND	
Agricultural Chemical Analyses						
Test Method	Constituent					
EPA 507, 619	Atrazine (AAtrex)	µg/l	3	3	ND	
	Molinate (Ordram)	µg/l	None	20	ND	
	Simazine (Princep)	µg/l	4 P	4	ND	
	Thiobencarb (Bolero)	µg/l	None	70	ND	
	Bromacil (Hyvar)	µg/l	None	None	ND	
	Butachlor	µg/l	None	None	ND	
	Diazinon	µg/l	None	14 A	ND	
	Dimethoate	µg/l	None	None	ND	
	Metolachlor	µg/l	None	None	ND	
	Metribuzin	µg/l	None	None	ND	
	Propachlor	µg/l	None	None	ND	
	Prometryne (Caparol)	µg/l	None	None	ND	
Other	Acephate	µg/l	None	None		
	Aldicarb (Temik)	µg/l	7	10 A	ND	
	Bentazon (Basagran)	µg/l	None	18	ND	
	Captan	µg/l	None	350 A		
	Carbofuran (Furadan)	µg/l	40	18	ND	
	Chlordane	µg/l	2	0.1	ND	
	Chlorothalonil (Bravo)	µg/l	None	None	ND	
	2,4-D	µg/l	70	70	ND	
	Endrin	µg/l	2	0.2	ND	
	Eptam	µg/l	None	None		
	Heptachlor	µg/l	0.4	0.01	ND	
	Heptachlor epoxide	µg/l	0.2	0.01	ND	
	IPC	µg/l	None	None		
	Lindane (gamma-BHC)	µg/l	0.2	0.2	ND	
	Methoxychlor	µg/l	40	40	ND	
	Napthalene	µg/l	None	None	ND	ND
	Pentachlorophenol	µg/l	1	None	ND	
	2,4,5-T	µg/l	None	None		
	2,4,5-TP (Silvex)	µg/l	50	10	ND	
	Toxaphene	µg/l	3	5	ND	
	Alachlor (Alanex)	µg/l	2	2	ND	
	Aldrin	µg/l	None	None	ND	
	Dieldrin	µg/l	None	None	ND	
	Hexachlorobenzene	µg/l	1	1	ND	
	PCB 1016	µg/l	None	None	ND	
	PCB 1221	µg/l	None	None	ND	
	PCB 1232	µg/l	None	None	ND	
	PCB 1242	µg/l	None	None	ND	
	PCB 1248	µg/l	None	None	ND	
	PCB 1254	µg/l	None	None	ND	
	PCB 1260	µg/l	None	None	ND	

A=California Action Level
ND = Not Detected

TABLE 7-6
VENTURA RIVER AT FOSTER PARK
BACTERIOLOGICAL AND TURBIDITY TEST RESULTS

Date	Total Coliform (MPN/100ml)	Turbidity (NTU)
1/9/95	>2400	325
1/17/95	>2400	8
1/23/95	>2400	65
1/30/95	>2400	15
2/6/95	920	5.5
2/13/95	220	8.3
2/21/95	1600	79
2/27/95	540	0.5
3/6/95	>2400	0.5
3/13/95	1600	60
3/20/95	920	16
3/27/95	170	9
4/3/95	350	2
4/10/95	79	6
4/17/95	49	1.7
4/24/95	110	0.8
5/1/95	350	0.3
5/8/95	70	0.25
5/15/95	>2400	22
5/22/95	70	0.25
5/30/95	240	0.9
6/5/95	540	0.35
6/12/95	49	0.25
6/19/95	130	0.25
6/26/95	110	0.2
7/3/95	49	0.1
7/10/95	79	0.3
7/17/95	70	0.2
7/24/95	110	0.25
7/31/95	33	--
8/7/95	920	0.25
8/14/95	1600	1
8/21/95	540	0.95
8/28/95		0.5
9/5/95	220	0.4
9/11/95	170	0.65
9/18/95	110	1.2
9/25/95	64	2.5
10/2/95	46	0.60
10/9/95	110	1.3
10/16/95	170	1
10/23/95	130	1
10/30/95	220	0.95
11/6/95	49	0.7
11/13/95	130	1.1
11/20/95	94	0.8
11/27/95	70	0.7
12/4/95	49	0.4
12/11/95	170	0.8
12/18/95	110	0.65
12/26/95	33	0.4

Date	Total Coliform (MPN/100ml)	Turbidity (NTU)
1/2/96	33	0.7
1/8/96	13	0.8
1/16/96	7	0.85
1/22/96	9	0.65
1/29/96	17	0.65
2/5/96	240	1.8
2/12/96	540	0.15
2/20/96	>2400	54
2/26/96	540	2.5
3/4/96	140	0.8
3/11/96	79	0.4
3/18/96	110	0.5
3/25/96	17	0.4
4/1/96	49	0.5
4/8/96	49	0.3
4/15/96	14	0.95
4/22/96	11	0.4
4/29/96	46	0.35
5/6/96	350	0.45
5/13/96	17	0.3
5/20/96	180	0.5
5/28/96	33	0.55
6/3/96	49	0.3
6/10/96	140	2
6/17/96	240	0.35
6/24/96	>2400	0.35
7/1/96	170	0.35
7/8/96	350	0.4
7/15/96	920	0.45
7/22/96	920	0.35
7/29/96		1.5
8/3/96	130	0.5
8/12/96	no flow	
8/19/96	no flow	
8/26/96	no flow	
9/2/96	no flow	
9/9/96	no flow	
9/16/96	no flow	
9/23/96	no flow	
9/30/96	no flow	
10/7/96	no flow	
10/14/96	no flow	
10/21/96	no flow	
10/28/96	no flow	
11/4/96	no flow	
11/12/96	no flow	
11/18/96	no flow	
11/25/96	<2400	0.7
12/2/96	no flow	
12/9/96	no flow	
12/16/96	920	0.35
12/23/96	1600	7
12/30/96	33	1.2

TABLE 7-6
VENTURA RIVER AT FOSTER PARK
BACTERIOLOGICAL AND TURBIDITY TEST RESULTS

Date	Total Coliform (MPN/100ml)	Turbidity (NTU)	Date	Total Coliform (MPN/100ml)	Turbidity (NTU)
1/6/97	240	1.3	1/5/98	920	0.45
1/13/97	1600	4	1/12/98	240	1.7
1/21/97	170	1.5	1/19/98	540	1
1/27/97	>2400	30	1/26/98	350	0.98
			2/2/98	>2400	920
			2/9/98	>2400	154
MISSING FEBRUARY			2/17/98	>2400	190
			2/23/98	>2400	7200
3/3/97	13	0.45	3/2/98	1600	90
3/10/97	33	0.3	3/9/98	240	14.3
3/17/97	79	0.25	3/16/98	540	3.6
3/24/97	350	0.2	3/23/98	33	0.55
3/31/97	79	0.15	3/30/98	240	12.6
4/7/97	8	0.2	4/6/98	170	27.5
4/14/97	49	0.2	4/13/98	1600	8.45
4/21/97	240	0.15	4/20/98	94	3
4/28/97	170	0.15	4/27/98	70	7.1
5/5/97	33	0.3	5/4/98	170	4.2
5/12/97	130	0.2	5/11/98	540	5.5
5/19/97	79	0.25	5/18/98	240	5.5
5/27/97	540	0.25	5/26/98	130	0.8
6/2/97	170	0.25	6/1/98	180	1
6/9/97	170	0.3	6/8/98	170	0.55
6/16/97	540	6.5	6/15/98	46	0.4
6/23/97		0.3	6/22/98	170	0.55
6/30/97		0.35	6/29/98	23	0.35
7/7/97	1600	0.35	7/6/98	33	0.1
7/14/97	540	0.3	7/13/98	49	0.25
7/21/97	280	0.25	7/20/98	49	<.10
7/28/97	350	0.3	7/27/98	70	0.7
8/4/97	1600	0.2	8/3/98	130	0.75
8/11/97	540	0.45	8/10/98	350	0.5
8/18/97	>2400	0.3	8/17/98	170	0.4
8/25/97	>2400	0.3	8/24/98	46	0.85
9/1/97	>2400	1.5	8/31/98	23	0.8
9/8/97	no flow		9/8/98	220	0.65
9/15/97	no flow		9/14/98	130	1.6
9/22/97	no flow		9/21/98	49	0.1
9/29/97	no flow		9/28/98	79	0.95
10/6/97	no flow		10/5/98	240	0.8
10/13/97	no flow		10/12/98	79	0.9
10/20/97	no flow		10/19/98	170	0.8
10/27/97	no flow		10/26/98	540	0.55
11/3/97	no flow		11/2/98	17	0.5
11/10/97	no flow		11/9/98	79	0.6
11/17/97	no flow		11/16/98	23	0.65
11/24/97	no flow		11/23/98	70	0.5
12/1/97	no flow		11/30/98	70	0.65
12/8/97	920	2.4	12/7/98	17	1
12/15/97	920	0.5	12/14/98	17	0.6
12/22/97	280	0.5	12/21/98	49	0.8
12/29/97	140	0.4	12/28/98	33	0.5

TABLE 7-6
VENTURA RIVER AT FOSTER PARK
BACTERIOLOGICAL AND TURBIDITY TEST RESULTS

Date	Total Coliform (MPN/100ml)	Turbidity (NTU)
1/4/99	33	0.6
1/11/99	31	1.1
1/19/99	8	0.9
1/25/99	>2400	4.1
2/1/99	170	2.2
2/8/99	31	1.3
2/16/99	140	1
2/22/99	21	1.1
3/1/99	21	0.7
3/8/99	49	0.9
3/15/99	1600	7.6
3/22/99	140	1.1
3/29/99	11	0.9
4/5/99	8	0.6
4/12/99	350	2.9
4/19/99	13	0.95
4/26/99	70	0.6
5/3/99	17	0.6
5/10/99	13	1.15
5/17/99	23	0.9
5/24/99	170	0.9
6/1/99	110	0.7
6/7/99	79	0.85
6/14/99	49	0.65
6/21/99	26	0.85
6/28/99	33	0.8
7/6/99	17	0.7
7/12/99	49	1
7/19/99	23	0.6
7/26/99	79	0.65
8/2/99	79	0.45
8/9/99	79	0.5
8/16/99	17	0.55
8/23/99	110	0.5
8/30/99	170	1
9/7/99	170	0.45
9/13/99	70	0.65
9/20/99	170	0.6
9/27/99	130	0.5
10/4/99	350	0.5
10/11/99	>2400	0.45
10/18/99	110	0.8
10/25/99	>2400	0.95
11/1/99	350	0.6
11/8/99	920	0.8
11/15/99	130	0.75
11/22/99	350	0.65
11/29/99	2	0.65
12/6/99	46	0.5
12/13/99	<2	0.5
12/20/99	46	0.9
12/27/99	46	1

Date	Total Coliform (MPN/100ml)	Turbidity (NTU)
1/3/00	170	0.7
1/10/00	170	2
1/18/00	130	0.8
1/24/00	27	0.65
1/31/00	240	0.7
2/7/00	170	0.65
2/14/00	540	2.5
2/22/00	920	56
2/28/00	>2400	3.5

1989-1994 Average*=	787.2	22.5
1995-1999 Average*=	446.0	42.7
1989-1999 Average*=	588.4	34.6

*Coliform >2400 averaged as 2400, so actual averages are probably higher than shown.

TABLE 7-7a
NYE WELL 1
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	1/8/96	2/5/96	3/4/96	4/1/96	5/6/96	6/3/96	7/1/96	8/5/96	9/9/96	10/7/96	11/4/96	12/2/96	1/6/97
Alkalinity ($CaCO_3$)	mg/l			205	198	206	188	188	198	201	193	215	215	215	206	209
Carbonate (CO_3)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO_3)	mg/l			251	242	251	229	229	241	245	236	262	262	262	251	255
Sulfate (SO_4)	mg/l	250 R	250 R	256*	244	252*	268*	264*	263*	249	250	274*	237	257*	244	258*
Chloride (Cl)	mg/l	250 R	250 R	34	43	32	39	39	39	33	37	33	31	39	42	42
Nitrate (NO_3)	mg/l	45 M	45 M	1.6	1.9	2.1	2.2	1.5	1.1	1.9	1.0	1.0	1.0	1.1	1.6	2.3
Nitrite (NO_2)				<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.45	0.10	0.29	0.21	0.44	0.52	0.42	0.5	0.51	0.51	0.48	0.40	0.58
pH	units	6.5-8.6 R		7.45	7.54	7.61	7.68	7.76	7.62		7.70	7.53	7.41	7.50	7.61	7.50
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	900	910*	860	1000*	1000*	950*		990*	1020*	890*	840	850	880
Dissolved Solids (TDS)	mg/l	500 R	500 R	688*	660*	688*	692*	680*	700*	784*	668*	732*	612*	692*	720*	664*
Boron (B)	mg/l			0.33	0.37	0.25	0.33	0.35	0.36	0.3	0.29	0.29	0.33	0.54	0.52	0.34
Phosphate (PO_4)	mg/l			0.08	0.08	0.06	0.01	0.1	0.08	0.07	<.01	0.18	0.11	<.01	0.13	0.08
General Physical																
Turbidity	NTU	0.5	0.5	0.15	0.10	0.20	0.20	0.20	0.10		0.15	0.20	0.10	0.15	0.10	0.15
Temperature	°C			17.3	16.6	17.5	16.2	18.8	18.7	21.2	22.6	20.6	20.0	19.5	18.7	16.4

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7
NYE WELL COMPOSITE
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	1/3/95	2/6/95	3/6/95	4/3/95	5/1/95	6/5/95	7/10/95	8/7/95	9/11/95	10/2/95	11/6/95	12/4/95	1996 - 2000
Calcium (Ca)	mg/l				111	116	116	116	121	122	125	123	125	124	120	
Magnesium (Mg)	mg/l				28.4	30.6	30.2	34.8	32.9	32	33.1	33.1	33.7	26.1	31.2	
Sodium (Na)	mg/l				43	41	42	41	43	42	48	51	48	43	49	
Potassium (K)	mg/l			N	2.1	2	2.2	2.5	2.2	2.2	2.2	2.2	2.6	3.1	2.3	N
Alkalinity ($CaCO_3$)	mg/l			O	183	187	182	176	175	186	190	186	182	205	178	O
Hydroxide (OH)	mg/l				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Carbonate (CO_3)	mg/l			D	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	D
Bicarbonate (HCO_3)	mg/l			A	224	229	222	215	213	227	232	226	222	250	217	A
Sulfate (SO_4)	mg/l	250 R	250 R	T	209	220	231	233	247	252*	252*	249	240	249	245	T
Chloride (Cl)	mg/l	250 R	250 R	A	21	18	15	17	21	26	26	24	26	30	29	A
Nitrate (NO_3)	mg/l	45 M	45 M		8.9	10.6		10.6	9.7	10.2	10.6	7.5	7.1		6.2	
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M		0.3	0.55	0.49	0.42	1.1	0.53	0.39	0.44	0.64	0.62	0.53	
Copper (Cu)	µg/l	1000 R	1000 R													
Iron (Fe)	µg/l	300 R	300 R		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
Manganese (Mn)	µg/l	50 R	50 R		<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	
Zinc (Zn)	µg/l	5000 R	5000 R													
Foaming Agents (MBAS)	mg/l	0.5 R	0.5 R													
pH	units	6.5-8.6 R			6.85	7.48	7.49	7.4	7.4	7.25	7.25	7.38	7.43	7.47	7.6	
Electrical Conductance (EC)	µmhos/cm	900 R	900 R		770	810	860	830	840	850	970*	930*	990*	590	880	
Dissolved Solids (TDS)	mg/l	500 R	500 R		508*	608*	580*	668*	604*	648*	736*	688*	616*	456	680*	
Hardness ($CaCO_3$)	mg/l				394	416	414	433	438	436	448	443	451	417	428	
Boron (B)	mg/l				0.3	0.42	0.32	0.32	0.33	0.29	0.31	0.3	0.32	0.35	0.33	
Phosphate (PO_4)	mg/l				0.05	0.01	0.08	0.07	0.03	0.04	0.04	0.02	<.01	0.02	0.03	
Silica	mg/l															
General Physical																
Color (Unfiltered)	units	15 R	15 R		<3	<3	10	5	<3	<3	<3	<3	<3	<3	<3	
Odor (at 60 deg C)	TON	3 R	3 R													
Lab Turbidity (U)	NTU				0.2	0.35	2	0.35	0.3	0.2	0.65	0.4	0.45	0.6	1	
Temperature	°C				16.4	16.8		17.7	18.2	19.1	20.1	22.6	7.1		19.2	
Langlier Index		5 R	5 R		-0.5	0.16		0.07	0.1	0.2	0.04	0.22	0.21		0.33	
Inorganic Chemical																
Arsenic (As)	µg/l	50 M	50 M													
Barium (Ba)	µg/l	1000 M	1000 M													
Cadmium (Cd)	µg/l	10 M	5 M													
Chromium (Total Cr)	µg/l	50 M	50 M													
Lead (Pb)	µg/l	50 M														
Mercury (Hg)	µg/l	2 M	2 M													
Selenium (Se)	µg/l	10 M	50 M													
Silver (Ag)	µg/l	50 M	50 M													
Aluminum (Al)	µg/l	1000 M	1000 M													

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7a
NYE WELL 1
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	2/3/97	3/3/97	4/7/97	5/5/97	6/2/97	7/7/97	8/4/97	9/8/97	10/6/97	11/3/97	12/1/97	1/5/98	2/2/98
Alkalinity ($CaCO_3$)	mg/l			211	192	196	197	202	206	206	197	208	212	204	202	N
Carbonate (CO_3)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	O
Bicarbonate (HCO_3)	mg/l			257	235	239	240	247	252	251	240	254	258	249	247	
Sulfate (SO_4)	mg/l	250 R	250 R	272*	270*	264*	257*	245	241	238	249	246	248	229	241	D
Chloride (Cl)	mg/l	250 R	250 R	37	33	38	41	38	45	41	42	41	0.39	42	48	A
Nitrate (NO_3)	mg/l	45 M	45 M	3.1	2.4	2.8	2.3	2.2	1.7	1.4	1.1	1.5	1.4	1.9	2.0	T
Nitrite (NO_2)				<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	A
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.51	0.51	0.57	0.53	0.51	0.52	0.53	0.54	0.53	0.55	0.51	0.53	
pH	units	6.5-8.6 R		7.53	7.53	7.63	7.41	7.60	7.72	7.49	7.59	7.58	7.52	7.51	7.39	
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	950*	860	950*	990*	1010*	930*	960*	1000*	930*	980*	880	890	
Dissolved Solids (TDS)	mg/l	500 R	500 R	712*	672*	692*	720*	660*	704*	736*	685*	612*	684*	720*	568*	
Boron (B)	mg/l			0.36	0.36	0.29	0.31	0.28	0.38	0.37	0.44	0.36	0.38	0.39	0.35	
Phosphate (PO_4)	mg/l			0.10	0.12	0.10	<0.01	<0.01	<0.01	<0.01	0.10	<0.01	0.14	<0.01	<0.01	
General Physical																
Turbidity	NTU	0.5	0.5	0.15	0.15	<0.10	0.10	0.10	0.15	0.10	<0.10	0.15	0.15	0.25	0.15	
Temperature	°C			17.7	17.5	17.1	18.1	19.3	21.0	21.4	22.5	23.0		20.0	15.8	

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7a
NYE WELL 1
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	3/2/98	4/6/98	5/4/98	6/1/98	7/6/98	8/3/98	9/14/98	10/5/98	11/2/98	12/7/98	1/4/99	2/1/99	3/1/99
Alkalinity ($CaCO_3$)	mg/l			N	N	N	N	205	204	198	199	190	192	188	208	216
Carbonate (CO_3)	mg/l			O	O	O	O	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO_3)	mg/l							250	249	241	243	232	234	230	254	216
Sulfate (SO_4)	mg/l	250 R	250 R	D	D	D	D	301*	273*	258*	260*	256*	265*	291*	272*	287*
Chloride (Cl)	mg/l	250 R	250 R	A	A	A	A	22	22	19	19.3	27	28	33	38	36
Nitrate (NO_3)	mg/l	45 M	45 M	T	T	T	T	2.8	2.0	1.5	1.2	1.8	1.6	1.5	2.3	2.3
Nitrite (NO_2)				A	A	A	A	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M					0.49	0.49	0.52	0.5	0.55	0.52	0.49	0.48	0.47
pH	units	6.5-8.6 R						7.43	7.35	7.58	7.38	7.42	7.76	7.52	7.62	7.98
Electrical Conductance (EC)	µmhos/cm	900 R	900 R					990*	1010*	990*	1000*	850	905*	890	820	940*
Dissolved Solids (TDS)	mg/l	500 R	500 R					748*	796*	664*		664*	660*	620*	644*	712*
Boron (B)	mg/l							0.29	0.33	0.34	0.32	0.32	0.33	0.40	0.26	0.33
Phosphate (PO_4)	mg/l							<0.01	<0.01	<0.01	<0.01	0.10	<0.01	0.10	<0.01	<0.01
General Physical																
Turbidity	NTU	0.5	0.5					0.1	0.35	0.30	0.35	0.30	0.30	0.25	0.20	0.25
Temperature	°C							19.0	21.4	21.4	21.0	19.5	17.7		16.4	17.1

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7a
NYE WELL 1
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	4/5/99	5/10/99	6/7/99	7/12/99	8/9/99	9/13/99	10/4/99	11/1/99	12/6/00	1/10/00	2/7/00	3/6/00
Alkalinity ($CaCO_3$)	mg/l			206	215	221	214	197	210	207	197	209	209	199	196
Carbonate (CO_3)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO_3)	mg/l			251	263	270	261	240	256	253	240	254	255	243	240
Sulfate (SO_4)	mg/l	250 R	250 R	287*	281*	263*	259*	248	253*	256*	241	242	242	232	251*
Chloride (Cl)	mg/l	250 R	250 R	34	36	34	32	32	31	32	25	38	36	38	37
Nitrate (NO_3)	mg/l	45 M	45 M	1.6	1.6	1.4	1.1	1.0	0.92	1.0	3.3	<.4	1.3	0.9	1.8
Nitrite (NO_2)				<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.52	0.49	0.48	0.51	0.51	0.54	0.46	0.53	0.51	0.5	0.51	0.49
pH	units	6.5-8.6 R		7.97	7.51	7.39	7.82	7.25	7.50	7.71	7.32	7.83	7.87	7.10	7.30
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	840	940*	930*	970*	900	870	910*	940*	870	840	850	800
Dissolved Solids (TDS)	mg/l	500 R	500 R	688*	692*	592*	696*	716*	652*	676*	656*	648*	612*	688*	684*
Boron (B)	mg/l			0.29	0.35	0.26	0.26	0.31	0.35	0.33	0.33	0.34	0.3	0.38	0.28
Phosphate (PO_4)	mg/l			<0.01	0.12	0.13	0.01	<0.01	0.08	0.17	0.09	0.07	<0.01	0.14	0.11
General Physical															
Turbidity	NTU	0.5	0.5	0.20	0.30	0.30	0.30	0.20	0.76	0.30	0.20	0.10	0.20	0.25	0.20
Temperature	°C			16.4	17.4	18.2	20.3	19.8	21.0	23.0	19.0	18.5	15.0	19.0	16.0

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7b
NYE WELL 2
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	1/8/96	2/5/96	3/4/96	4/1/96	5/6/96	6/3/96	7/1/96	8/5/96	9/9/96	10/7/96	11/4/96	12/2/96	1/6/97	2/3/97	3/3/97
Alkalinity ($CaCO_3$)	mg/l			207	N	N	N	186	210	202	190	204	N	N	214	N	N	N
Carbonate (CO_3)	mg/l			<1	O	O	O	<1	<1	<1	<1	<1	O	O	<1	O	O	O
Bicarbonate (HCO_3)	mg/l			253	D	D	D	227	257	246	232	249	D	D	261	D	D	D
Sulfate (SO_4)	mg/l	250 R	250 R	251*	A	A	A	252*	256*	242	254*	268*	A	A	246	A	A	A
Chloride (Cl)	mg/l	250 R	250 R	33	T	T	T	42	37	33	37	31	T	T	43	T	T	T
Nitrate (NO_3)	mg/l	45 M	45 M	1.5	A	A	A	1.5	1.2	1.9	0.9	1.0	A	A	1.6	A	A	A
Nitrite (NO_2)				<.4				<.4	<.4	<.4	<.4	<.4			<.4			
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.47				0.41	0.51	0.41	0.5	0.5			0.39			
pH	units	6.5-8.6 R		7.51				7.70	7.72		7.78	7.60			7.69			
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	890				970*	950*		970*	1000*			840			
Dissolved Solids (TDS)	mg/l	500 R	500 R	660*				676*	696*	812*	676*	760*			736*			
Boron (B)	mg/l			0.33				0.23	0.36	0.29	0.34	0.47			0.49			
Phosphate (PO_4)	mg/l			0.09				0.11	0.08	0.21	<.01	0.20			<.01			
General Physical																		
Turbidity	NTU	0.5	0.5	0.25				0.25	0.20		0.20	0.40			0.10			
Temperature	°C			16.9				18.8	18.6	21.4	21.5	20.1			17.8			

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7b
NYE WELL 2
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	4/7/97	5/5/97	6/2/97	7/7/97	8/4/97	9/8/97	10/6/97	11/3/97	12/1/97	1/5/98	2/2/98	3/2/98	4/6/98	5/4/98	6/1/98
Alkalinity ($CaCO_3$)	mg/l			N	N	N	N	197	191	208	216	208	N	N	N	220	209	199
Carbonate (CO_3)	mg/l			O	O	O	O	<1	<1	<1	<1	<1	O	O	O	<1	<1	<1
Bicarbonate (HCO_3)	mg/l			D	D	D	D	240	233	254	263	254				269	256	243
Sulfate (SO_4)	mg/l	250 R	250 R	A	A	A	A	236	224	238	245	235	D	D	D	225	240	240
Chloride (Cl)	mg/l	250 R	250 R	T	T	T	T	43	41	40	41	44	A	A	A	22	20	17
Nitrate (NO_3)	mg/l	45 M	45 M	A	A	A	A	1.4	1.1	1.5	1.5	3.0	T	T	T	3.7	3.3	2.6
Nitrite (NO_2)								<.4	<.4	<.4	<.4	<.4	A	A	A	<.4	<.4	<.4
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M					0.52	0.54	0.53	0.53	0.55				0.42	0.48	0.48
pH	units	6.5-8.6 R						7.48	7.76	7.67	7.78	7.64				7.56	7.36	7.29
Electrical Conductance (EC)	µmhos/cm	900 R	900 R					930*	980*	920*	970*	910*				890	920*	880
Dissolved Solids (TDS)	mg/l	500 R	500 R					672*	670*	616*	686*	704*				752*	692*	644*
Boron (B)	mg/l							0.35	0.44	0.36	0.36	0.41				0.31	0.30	0.28
Phosphate (PO_4)	mg/l							<0.01	0.11	<0.01	0.13	<0.01				0.10	<0.01	<0.01
General Physical																		
Turbidity	NTU	0.5	0.5					0.20	<0.10	0.20	0.2	0.30				1.00*	1.20*	0.35
Temperature	°C							21.2	22.3	23.2		20.2				15.3	17.1	18.0

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7b
NYE WELL 2
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	7/6/98	8/3/98	9/14/98	10/5/98	11/2/98	12/7/98	1/4/99	2/1/99	3/1/99	4/5/99	5/10/99	6/7/99	7/12/99	8/9/99	9/13/99
Alkalinity ($CaCO_3$)	mg/l			199	190	N	193	179	184	186	197	215	206	219	208	204	191	211
Carbonate (CO_3)	mg/l			<1	<1	O	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO_3)	mg/l			243	231		236	219	224	227	240	215	251	268	253	248	233	257
Sulfate (SO_4)	mg/l	250 R	250 R	267*	246	D	242	234	284*	270*	259*	256*	273*	257*	246*	249*	242	246*
Chloride (Cl)	mg/l	250 R	250 R	20	21	A	18	26	43	34	38	34	34	35	33	31	31	31
Nitrate (NO_3)	mg/l	45 M	45 M	2.4	1.7	T	1.1	1.6	2.9	1.4	2.3	2.1	1.6	1.6	1.4	1.0	0.9	0.92
Nitrite (NO_2)				<.4	<.4	A	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.52	0.51		0.51	0.57	0.53	0.5	0.48	0.49	0.54	0.5	0.51	0.53	0.53	0.55
pH	units	6.5-8.6 R		7.30	7.36		7.40	7.44	7.80	7.49	7.62	7.67	7.87	7.61	7.93	7.85	7.37	7.91
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	980*	970*		950*	580	1310*	850	800	880	820	880	900	940*	890	840
Dissolved Solids (TDS)	mg/l	500 R	500 R	724*	764*			536*	616*	592*	580*	676*	648*	656*	692*	672*	724*	656*
Boron (B)	mg/l			0.26	0.30		0.30	0.29	0.31	0.32	0.28	0.31	0.30	0.24	0.27	0.25	0.33	0.31
Phosphate (PO_4)	mg/l			<0.01	<0.01		0.1	0.12	<0.01	0.12	<0.01	<0.01	<0.01	0.11	0.14	0.01	0.11	0.08
General Physical																		
Turbidity	NTU	0.5	0.5	0.30	0.60*		1.30*	0.75*	0.30	0.20	0.20	0.10	0.15	0.40	0.20	0.30	0.25	0.35
Temperature	°C			18.8	21.9		21.9	18.8	17.4		15.9	16.3	16.1	17.8	18.4	20.3	19.7	21.0

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7b
NYE WELL 2
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	10/4/99	11/1/99	12/6/00	1/10/00	2/7/00	3/6/00
Alkalinity ($CaCO_3$)	mg/l			198	189	209	208	N	202
Carbonate (CO_3)	mg/l			<1	<1	<1	<1	O	<1
Bicarbonate (HCO_3)	mg/l			242	231	256	254	D	246
Sulfate (SO_4)	mg/l	250 R	250 R	254*	273*	242	242	A	269*
Chloride (Cl)	mg/l	250 R	250 R	33	43	40	37	T	38
Nitrate (NO_3)	mg/l	45 M	45 M	1.0	1.4	1.2	1.3	A	2.1
Nitrite (NO_2)				<.4	<.4	<.4	<.4		<.4
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.47	0.53	0.52	0.48		0.48
pH	units	6.5-8.6 R		7.70	7.33	7.53	7.63		7.54
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	900	900	880	840		840
Dissolved Solids (TDS)	mg/l	500 R	500 R	668*	628*	652*	608*		860*
Boron (B)	mg/l			0.32	0.33	0.33	0.32		0.28
Phosphate (PO_4)	mg/l			0.06	0.16	0.08	<0.01		0.11
General Physical									
Turbidity	NTU	0.5	0.5	0.10	0.25	0.10	3.80*		0.15
Temperature	°C			23.0	20.5	19.5	15.0		16.0

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7c
NYE WELL 7
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	1/8/96	2/5/96	3/4/96	4/1/96	5/6/96	6/3/96	7/1/96	8/5/96	9/9/96	10/7/96	11/4/96	12/2/96	1/6/97	2/3/97	3/3/97
Alkalinity ($CaCO_3$)	mg/l			197	195	194	176	180	195	194	188	203	199	197	205	190	194	186
Carbonate (CO_3)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO_3)	mg/l			241	238	237	214	219	237	237	229	248	243	240	250	232	236	227
Sulfate (SO_4)	mg/l	250 R	250 R	242	240	234	246	249	252*	241	248	258*	229	243	232	235	231	245
Chloride (Cl)	mg/l	250 R	250 R	33	39	31	35	41	40	32	36	30	33	37	44	41	36	31
Nitrate (NO_3)	mg/l	45 M	45 M	1.5	1.7	1.9	2.0	1.6	1.2	1.9	1.0	0.5	0.8	0.8	1.6	2.0	2.6	2.1
Nitrite (NO_2)				<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.48	0.14	0.36	0.21	0.41	0.52	0.42	0.52	0.54	0.53	0.51	0.42	0.6	0.53	0.51
pH	units	6.5-8.6 R		7.50	7.62	7.56	7.58	7.61	7.56		7.60	7.56	7.40	7.46	7.55	7.55	7.55	7.61
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	880	880	810	950*	960*	930*		950*	950*	840	800	810	820	850	800
Dissolved Solids (TDS)	mg/l	500 R	500 R	656*	644*	644*	676*	668*	688*	756*	640*	724*	652*	620*	688*	612*	616*	612*
Boron (B)	mg/l			0.31	0.42	0.23	0.32	0.22	0.35	0.29	0.27	0.26	0.30	0.21	0.32	0.36	0.33	0.28
Phosphate (PO_4)	mg/l			0.07	0.05	0.05	<.01	0.07	0.05	0.09	<.01	0.19	<.01	<.01	<.01	0.15	<.01	<.01
General Physical																		
Turbidity	NTU	0.5	0.5	0.15	0.20	0.15	0.20	0.20	0.10		0.20	0.15	0.10	0.15	0.10	0.15	0.20	0.15
Temperature	°C			18.2	17.2	16.5	16.7	17.8	18.1	20.5	21.3	20.0	20.3	19.5	18.9	16.9	19.7	17.6

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7c
NYE WELL 7
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	4/7/97	5/5/97	6/2/97	7/7/97	8/4/97	9/8/97	10/6/97	11/3/97	12/1/97	1/5/98	2/2/98	3/2/98	4/6/98	5/4/98	6/1/98
Alkalinity ($CaCO_3$)	mg/l			190	193	196	193	203	199	206	210	202	205	N	N	195	196	188
Carbonate (CO_3)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0	O	<1	<1	<1
Bicarbonate (HCO_3)	mg/l			232	235	239	236	247	243	254	256	247	250	D	D	237	239	229
Sulfate (SO_4)	mg/l	250 R	250 R	241	238	236	237	235	234	236	239	227	226	A	A	198	217	236
Chloride (Cl)	mg/l	250 R	250 R	35	39	38	43	43	39	38	39	44	47	T	T	17	16	14
Nitrate (NO_3)	mg/l	45 M	45 M	2.7	2.5	2.3	1.9	1.4	1.2	1.0	0.8	1.4	2.0	A	A	2.2	2.0	1.7
Nitrite (NO_2)				<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4			<.4	<.4	<.4
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.54	0.51	0.52	0.53	0.54	0.54	0.57	0.53	0.55	0.53			0.44	0.50	0.48
pH	units	6.5-8.6 R		7.67	7.44	7.53	7.35	7.44	7.45	7.49	7.45	7.54	7.44			7.50	7.42	7.45
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	890	960*	980*	940*	920*	960*	920*	930*	890	860			770	820	850
Dissolved Solids (TDS)	mg/l	500 R	500 R	686*	688*	640*	686*	640*	735*	586*	692*	684*	680*			632*	628*	580*
Boron (B)	mg/l			0.30	0.33	0.21	0.37	0.33	0.38	0.42	0.38	0.40	0.34			0.27	0.30	0.24
Phosphate (PO_4)	mg/l			<.01	<.01	<.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.16			<0.01	<0.01	<0.01
General Physical																		
Turbidity	NTU	0.5	0.5	0.10	0.10	0.15	0.20	0.50	0.1	0.2	0.60*	0.35	0.15			0.45	0.45	0.40
Temperature	°C			16.8	17.5	18.0	19.5	20.9	21.5	22.7	-	20.8	16.9			18.1	18.0	19.0

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7c
NYE WELL 7
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	7/6/98	8/3/98	9/14/98	10/5/98	11/2/98	12/7/98	1/4/99	2/1/99	3/1/99	4/5/99	5/10/99	6/7/99	7/12/99	8/9/99	9/13/99
Alkalinity ($CaCO_3$)	mg/l			182	182	186	185	181	187	188	209	203	196	191	211	207	198	180
Carbonate (CO_3)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO_3)	mg/l			222	222	227	226	221	229	230	255	203	239	233	257	252	241	219
Sulfate (SO_4)	mg/l	250 R	250 R	244	233	227	232	242	267*	278*	255*	247	264*	256*	247	249	241	243
Chloride (Cl)	mg/l	250 R	250 R	18	20	19	21	28	47	33	38	35	34	35	33	31	31	30
Nitrate (NO_3)	mg/l	45 M	45 M	1.9	1.5	1.2	1.0	1.6	2.9	1.2	2.1	2.0	1.4	1.4	1.1	0.9	0.8	0.8
Nitrite (NO_2)				<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.51	0.51	0.53	0.51	0.56	0.52	0.49	0.48	0.47	0.52	0.49	0.47	0.50	0.50	0.56
pH	units	6.5-8.6 R		7.43	7.37	7.54	7.42	7.52	7.76	7.57	7.60	7.70	7.87	7.64	7.96	7.85	7.48	7.94
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	900	910*	910*	940*	830	1310*	850	790	860	800	860	870	940*	890	840
Dissolved Solids (TDS)	mg/l	500 R	500 R	620*	668*	684*		628*	640*	596*	560*	636*	656*	648*	668*	660*	716*	664*
Boron (B)	mg/l			0.24	0.26	0.32	0.30	0.29	0.32	0.30	0.28	0.31	0.29	0.24	0.26	0.27	0.34	0.33
Phosphate (PO_4)	mg/l			<0.01	<0.01	<0.01	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.10	0.07	0.01	<0.01	0.06
General Physical																		
Turbidity	NTU	0.5	0.5	0.10	0.35	0.45	0.45	0.40	0.30	0.15	0.20	0.10	0.15	0.40	0.30	0.25	0.10	0.40
Temperature	°C			18.7	21.8	21.8	22.0	19.0	17.3		16.8	17.2	16.1	17.2	18.3	20.3	19.4	21.0

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7c
NYE WELL 7
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	10/4/99	11/1/99	12/6/99	1/10/00	2/7/00	3/6/00
Alkalinity ($CaCO_3$)	mg/l			207	201	219	217	209	193
Carbonate (CO_3)	mg/l			<1	<1	<1	<1	<1	<1
Bicarbonate (HCO_3)	mg/l			253	246	267	265	255	235
Sulfate (SO_4)	mg/l	250 R	250 R	247	268*	237	232	225	233
Chloride (Cl)	mg/l	250 R	250 R	31	42	38	34	36	36
Nitrate (NO_3)	mg/l	45 M	45 M	0.8	1.3	1.1	1.3	0.9	1.7
Nitrite (NO_2)				<.4	<.4	<.4	<.4	<.4	<.4
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.44	0.51	0.50	0.49	0.48	0.48
pH	units	6.5-8.6 R		7.71	7.56	7.53	7.69	7.15	7.56
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	900	900	860	830	860	780
Dissolved Solids (TDS)	mg/l	500 R	500 R	676*	620*	584*	628*	680*	804*
Boron (B)	mg/l			0.32	0.32	0.32	0.31	0.34	0.27
Phosphate (PO_4)	mg/l			0.04	0.07	0.06	<0.01	0.13	0.15
General Physical									
Turbidity	NTU	0.5	0.5	0.10	0.30	0.20	0.55*	0.30	0.30
Temperature	°C			23.5	19.5	19.0	16.0	19.0	16.0

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7d
NYE WELL 8
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	1/8/96	2/5/96	3/4/96	4/1/96	5/6/96	6/3/96	7/1/96	8/5/96	9/9/96	10/7/96	11/4/96	12/2/96	1/6/97
Alkalinity ($CaCO_3$)	mg/l			215	188	194	181	N	203	197	182	200	205	207	201	202
Carbonate (CO_3)	mg/l			<1	<1	<1	<1	O	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO_3)	mg/l			263	229	237	220	D	248	240	222	244	250	252	245	247
Sulfate (SO_4)	mg/l	250 R	250 R	242	240	235	240	A	252*	245	246	260*	237	248	232	237
Chloride (Cl)	mg/l	250 R	250 R	32	38	36	33	T	35	31	36	30	35	35	41	41
Nitrate (NO_3)	mg/l	45 M	45 M	1.4	1.6	1.8	2.0	A	1.3	2.0	1.0	0.8	0.8	0.8	1.5	1.9
Nitrite (NO_2)				<.4	<.4	<.4	<.4		<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.47	0.13	0.32	0.19		0.51	0.42	0.52	0.53	0.54	0.51	0.44	0.6
pH	units	6.5-8.6 R		7.44	7.55	7.55	7.51		7.57		7.55	7.54	7.35	7.39	7.65	7.44
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	860	880	810	940*		940*		950*	950*	850	800	810	840
Dissolved Solids (TDS)	mg/l	500 R	500 R	660*	648*	660*	668*		696*	772*	660*	728*	644*	640*	720*	616*
Boron (B)	mg/l			0.34	0.27	0.27	0.34		0.35	0.36	0.28	0.39	0.29	0.24	0.32	0.45
Phosphate (PO_4)	mg/l			0.06	0.05	0.05	<.01		0.06	0.14	<.01	0.27	<0.01	<.01	<.01	0.08
General Physical																
Turbidity	NTU	0.5	0.5	0.15	0.10	0.15	0.15		0.15		0.20	0.25	0.10	0.15	0.10	0.10
Temperature	°C			18.5	17.9	17.3	17.2		18.0	20.4	20.6	20.6	20.1	19.2	18.9	18.4

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7d
NYE WELL 8
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	2/3/97	3/3/97	4/7/97	5/5/97	6/2/97	7/7/97	8/4/97	9/8/97	10/6/97	11/3/97	12/1/97	1/5/98	2/2/98
Alkalinity ($CaCO_3$)	mg/l			189	185	194	197	196	N	N	194	194	206	203	199	N
Carbonate (CO_3)	mg/l			<1	<1	<1	<1	<1	O	O	<1	<1	<1	<1	<1	O
Bicarbonate (HCO_3)	mg/l			230	226	237	240	239	D	D	236	237	251	248	243	
Sulfate (SO_4)	mg/l	250 R	250 R	225	238	237	244	239	A	A	239	238	237	229	230	D
Chloride (Cl)	mg/l	250 R	250 R	37	33	35	39	41	T	T	40	41	40	41	44	A
Nitrate (NO_3)	mg/l	45 M	45 M	2.5	2.2	2.7	2.5	2.4	A	A	1.3	1.3	1.0	1.5	2.0	T
Nitrite (NO_2)				<.4	<.4	<.4	<.4	<.4			<.4	<.4	<.4	<.4	<.4	A
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.53	0.51	0.55	0.51	0.49			0.55	0.57	0.58	0.56	0.56	
pH	units	6.5-8.6 R		7.56	7.60	7.38	7.30	7.75			7.55	7.50	7.50	7.56	7.51	
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	850	810	880	970*	980*			940*	900	930*	890	860	
Dissolved Solids (TDS)	mg/l	500 R	500 R	624*	628*	704*	696*	636*			725*	592*	636*	668*	688*	
Boron (B)	mg/l			0.33	0.28	0.30	0.31	0.31			0.4	0.46	0.38	0.45	0.35	
Phosphate (PO_4)	mg/l			<0.01	<0.01	<0.01	<0.01	<0.01			<0.01	<0.01	0.16	<0.01	<0.01	
General Physical																
Turbidity	NTU	0.5	0.5	0.25	<0.10	<0.10	0.10	0.10			0.1	0.15	0.25	0.20	0.15	
Temperature	°C			19.0	18.5	17.4	18.1	18.5			21.0	24.2		21.2	17.9	

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7d
NYE WELL 8
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	3/2/98	4/6/98	5/4/98	6/1/98	7/6/98	8/3/98	9/14/98	10/5/98	11/2/98	12/7/98	1/4/99	2/1/99	3/1/99
Alkalinity ($CaCO_3$)	mg/l			N	N	195	190	189	191	183	186	183	182	185	200	205
Carbonate (CO_3)	mg/l			O	O	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO_3)	mg/l					238	231	230	233	223	227	223	222	225	244	205
Sulfate (SO_4)	mg/l	250 R	250 R	D	D	213	231	240	231	226	237	235	260*	286*	253*	243
Chloride (Cl)	mg/l	250 R	250 R	A	A	18	15	19	20	18	19	26	27	35	38	34
Nitrate (NO_3)	mg/l	45 M	45 M	T	T	2.1	1.9	1.9	1.5	1.3	1.1	1.6	1.5	1.2	2.1	2.1
Nitrite (NO_2)				A	A	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M			0.52	0.50	0.53	0.52	0.54	0.52	0.57	0.52	0.50	0.49	0.49
pH	units	6.5-8.6 R				7.44	7.35	7.61	7.41	7.45	7.37	7.49	7.76	7.48	7.60	7.63
Electrical Conductance (EC)	µmhos/cm	900 R	900 R			820	850	920*	920*	910*	940*	810	860	850	790	860
Dissolved Solids (TDS)	mg/l	500 R	500 R			624*	600*	612*	600*	692*		608*	616*	576*	648*	656*
Boron (B)	mg/l					0.29	0.26	0.22	0.27	0.33	0.28	0.28	0.30	0.32	0.30	0.31
Phosphate (PO_4)	mg/l					<.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
General Physical																
Turbidity	NTU	0.5	0.5			0.40	0.30	0.30	0.35	0.30	0.25	0.60*	0.30	0.15	0.25	0.10
Temperature	°C					16.3	19.8	19.3	19.4	21.9	21.0	19.8	17.4		16.7	17.3

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-7d
NYE WELL 8
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	4/5/99	5/10/99	6/7/99	7/12/99	8/9/99	9/13/99	10/4/99	11/1/99	12/6/00	1/10/00	2/7/00	3/6/00
Alkalinity ($CaCO_3$)	mg/l			201	193	249	198	193	N	204	198	218	213	210	192
Carbonate (CO_3)	mg/l			<1	<1	<1	<1	<1	O	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO_3)	mg/l			245	236	250	241	236	D	248	244	266	260	256	234
Sulfate (SO_4)	mg/l	250 R	250 R	263*	255*	250*	251*	244	A	246	269*	237	238	226	239
Chloride (Cl)	mg/l	250 R	250 R	34	35	33	33	33	T	32	42	37	35	36	35
Nitrate (NO_3)	mg/l	45 M	45 M	1.4	1.4	1.2	1.0	0.9	A	0.9	1.4	1.1	1.3	1.0	1.6
Nitrite (NO_2)				<.4	<.4	<.4	<.4	<.4		<.4	<.4	<.4	<.4	<.4	<.4
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.53	0.51	0.50	0.51	0.52		0.46	0.52	0.51	0.49	0.51	0.49
pH	units	6.5-8.6 R		7.74	7.61	7.92	7.69	7.35		7.72	7.40	7.58	8.00	7.20	7.34
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	800	860	870	930*	880		870	890	860	820	850	780
Dissolved Solids (TDS)	mg/l	500 R	500 R	572*	624*	680*	664*	708*		660*	627*	648*	616*	692*	788*
Boron (B)	mg/l			0.31	0.36	0.27	0.26	0.31		0.32	0.31	0.34	0.35	0.34	0.27
Phosphate (PO_4)	mg/l			<0.01	0.11	0.08	0.01	<0.01		0.04	0.15	0.07	0.01	0.13	0.14
General Physical															
Turbidity	NTU	0.5	0.5	0.15	0.15	0.20	0.20	0.10		0.15	0.20	0.10	0.35	0.25	<0.10
Temperature	°C			16.8	17.5	18.2	19.8	19.0		23.0	19.5	19.0	15.0	19.0	16.0

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
* Exceeds Drinking Water Standard

TABLE 7-8
NYE WELL 1 - ORGANIC WATER QUALITY ANALYSIS

Purgeable Organic Analyses			EPA	Calif		
Test Method	Constituent	Units	MCL	MCL	6/2/97	3/23/99
EPA 504	All constituents	µg/l	-	-	ND	
EPA 505	All constituents	µg/l	-	-		
EPA 515.1	All constituents	µg/l	-	-	ND	
EPA 524.2	All other constituents	µg/l	-	-		
	Methyl Chloride	µg/l	-	-	ND	ND
EPA 525	All constituents	µg/l	-	-		
EPA 531.	All constituents	µg/l	-	-		
EPA 549	All constituents	µg/l	-	-	ND	
Agricultural Chemical Analyses						
Test Method	Constituent					
EPA 507, 619	Atrazine (AAtrex)	µg/l	3	3	ND	
	Molinate (Ordram)	µg/l	None	20	ND	
	Simazine (Princep)	µg/l	4 P	4	ND	
	Thiobencarb (Bolero)	µg/l	None	70	ND	
	Bromacil (Hyvar)	µg/l	None	None	ND	
	Butachlor	µg/l	None	None	ND	
	Diazinon	µg/l	None	14 A	ND	
	Dimethoate	µg/l	None	None	ND	
	Metolachlor	µg/l	None	None	ND	
	Metribuzin	µg/l	None	None	ND	
	Propachlor	µg/l	None	None	ND	
	Prometryne (Caparol)	µg/l	None	None	ND	
Other	Acephate	µg/l	None	None		
	Aldicarb (Temik)	µg/l	7	10 A	ND	
	Bentazon (Basagran)	µg/l	None	18	ND	
	Captan	µg/l	None	350 A		
	Carbofuran (Furadan)	µg/l	40	18	ND	
	Chlordane	µg/l	2	0.1	ND	
	Chlorothalonil (Bravo)	µg/l	None	None	ND	
	2,4-D	µg/l	70	70	ND	
	Endrin	µg/l	2	0.2	ND	
	Eptam	µg/l	None	None		
	Heptachlor	µg/l	0.4	0.01	ND	
	Heptachlor epoxide	µg/l	0.2	0.01	ND	
	IPC	µg/l	None	None		
	Lindane (gamma-BHC)	µg/l	0.2	0.2	ND	
	Methoxychlor	µg/l	40	40	ND	
	Napthalene	µg/l	None	None	ND	ND
	Pentachlorophenol	µg/l	1	None	ND	
	2,4,5-T	µg/l	None	None	ND	
	2,4,5-TP (Silvex)	µg/l	50	10	ND	
	Toxaphene	µg/l	3	5	ND	
	Alachlor (Alanex)	µg/l	2	2	ND	
	Aldrin	µg/l	None	None	ND	
	Dieldrin	µg/l	None	None	ND	
	Hexachlorobenzene	µg/l	1	1	ND	
	PCB 1016	µg/l	None	None	ND	
	PCB 1221	µg/l	None	None	ND	
	PCB 1232	µg/l	None	None	ND	
	PCB 1242	µg/l	None	None	ND	
	PCB 1248	µg/l	None	None	ND	
	PCB 1254	µg/l	None	None	ND	
	PCB 1260	µg/l	None	None	ND	

A = California Action Level
ND=Not detected

TABLE 7-9
NYE WELL 2 - ORGANIC WATER QUALITY ANALYSIS

Purgeable Organic Analyses			EPA	Calif	
Test Method	Constituent	Units	MCL	MCL	2/28/00
EPA 504	All constituents	µg/l	-	-	ND
EPA 505	All constituents	µg/l	-	-	
EPA 515.1	All constituents	µg/l	-	-	ND
EPA 524.2	All other constituents	µg/l	-	-	
EPA 525	All constituents	µg/l	-	-	
EPA 531.	All constituents	µg/l	-	-	
EPA 549	All constituents	µg/l	-	-	
Agricultural Chemical Analyses					
Test Method	Constituent				
EPA 507, 619	Atrazine (AAtrex)	µg/l	3	3	ND
	Molinate (Ordram)	µg/l	None	20	ND
	Simazine (Princep)	µg/l	4 P	4	ND
	Thiobencarb (Bolero)	µg/l	None	70	ND
	Bromacil (Hyvar)	µg/l	None	None	ND
	Butachlor	µg/l	None	None	ND
	Diazinon	µg/l	None	14 A	ND
	Dimethoate	µg/l	None	None	ND
	Metolachlor	µg/l	None	None	ND
	Metribuzin	µg/l	None	None	ND
	Propachlor	µg/l	None	None	
	Prometryne (Caparol)	µg/l	None	None	ND
Other	Acephate	µg/l	None	None	
	Aldicarb (Temik)	µg/l	7	10 A	
	Bentazon (Basagran)	µg/l	None	18	ND
	Captan	µg/l	None	350 A	
	Carbofuran (Furadan)	µg/l	40	18	
	Chlordane	µg/l	2	0.1	
	Chlorothalonil (Bravo)	µg/l	None	None	ND
	2,4-D	µg/l	70	70	ND
	Endrin	µg/l	2	0.2	ND
	Eptam	µg/l	None	None	
	Heptachlor	µg/l	0.4	0.01	ND
	Heptachlor epoxide	µg/l	0.2	0.01	ND
	IPC	µg/l	None	None	
	Lindane (gamma-BHC)	µg/l	0.2	0.2	
	Methoxychlor	µg/l	40	40	
	Napthalene	µg/l	None	None	
	Pentachlorophenol	µg/l	1	None	
	2,4,5-T	µg/l	None	None	
	2,4,5-TP (Silvex)	µg/l	50	10	ND
	Toxaphene	µg/l	3	5	
	Alachlor (Alanex)	µg/l	2	2	
	Aldrin	µg/l	None	None	ND
	Dieldrin	µg/l	None	None	ND
	Hexachlorobenzene	µg/l	1	1	ND
	PCB 1016	µg/l	None	None	ND
	PCB 1221	µg/l	None	None	ND
	PCB 1232	µg/l	None	None	ND
	PCB 1242	µg/l	None	None	ND
	PCB 1248	µg/l	None	None	ND
	PCB 1254	µg/l	None	None	ND
	PCB 1260	µg/l	None	None	ND

ND=Not Detected
A = California Action Level

TABLE 7-10
NYE WELL 7 - ORGANIC WATER QUALITY ANALYSIS

Purgeable Organic Analyses			EPA	Calif		
Test Method	Constituent	Units	MCL	MCL	6/2/97	3/23/99
EPA 504	All constituents	µg/l	-	-	ND	
EPA 505	All constituents	µg/l	-	-		
EPA 515.1	All constituents	µg/l	-	-	ND	
EPA 524.2	All other constituents	µg/l	-	-		
EPA 525	All constituents	µg/l	-	-		
EPA 531.	All constituents	µg/l	-	-		
EPA 549	All constituents	µg/l	-	-	ND	
Agricultural Chemical Analyses						
Test Method	Constituent					
EPA 507, 619	Atrazine (AAtrex)	µg/l	3	3	ND	
	Molinate (Ordram)	µg/l	None	20	ND	
	Simazine (Princep)	µg/l	4 P	4	ND	
	Thiobencarb (Bolero)	µg/l	None	70	ND	
	Bromacil (Hyvar)	µg/l	None	None	ND	
	Butachlor	µg/l	None	None	ND	
	Diazinon	µg/l	None	14 A	ND	
	Dimethoate	µg/l	None	None	ND	
	Metolachlor	µg/l	None	None	ND	
	Metribuzin	µg/l	None	None	ND	
	Propachlor	µg/l	None	None	ND	
	Prometryne (Caparol)	µg/l	None	None	MD	
Other	Acephate	µg/l	None	None		
	Aldicarb (Temik)	µg/l	7	10 A	ND	
	Bentazon (Basagran)	µg/l	None	18	ND	
	Captan	µg/l	None	350 A		
	Carbofuran (Furadan)	µg/l	40	18	ND	
	Chlordane	µg/l	2	0.1	ND	
	Chlorothalonil (Bravo)	µg/l	None	None	ND	
	2,4-D	µg/l	70	70	ND	
	Endrin	µg/l	2	0.2	ND	
	Eptam	µg/l	None	None		
	Heptachlor	µg/l	0.4	0.01	ND	
	Heptachlor epoxide	µg/l	0.2	0.01	ND	
	IPC	µg/l	None	None		
	Lindane (gamma-BHC)	µg/l	0.2	0.2	ND	
	Methoxychlor	µg/l	40	40	ND	
	Napthalene	µg/l	None	None	ND	
	Pentachlorophenol	µg/l	1	None	ND	
	2,4,5-T	µg/l	None	None	ND	
	2,4,5-TP (Silvex)	µg/l	50	10	ND	
	Toxaphene	µg/l	3	5		
	Alachlor (Alanex)	µg/l	2	2	ND	
	Aldrin	µg/l	None	None		
	Dieldrin	µg/l	None	None	ND	
	Hexachlorobenzene	µg/l	1	1	ND	
	PCB 1016	µg/l	None	None	ND	
	PCB 1221	µg/l	None	None	ND	
	PCB 1232	µg/l	None	None	ND	
	PCB 1242	µg/l	None	None	ND	
	PCB 1248	µg/l	None	None	ND	
	PCB 1254	µg/l	None	None	ND	
	PCB 1260	µg/l	None	None	ND	

ND=Not Detected
A = California Action Level

TABLE 7-11
NYE WELL 8 - ORGANIC WATER QUALITY ANALYSIS

Purgeable Organic Analyses			EPA	Calif		
Test Method	Constituent	Units	MCL	MCL	6/2/97	3/23/99
EPA 504	All constituents	µg/l	-	-	ND	
EPA 505	All constituents	µg/l	-	-		
EPA 515.1	All constituents	µg/l	-	-	ND	
EPA 524.2	All other constituents	µg/l	-	-		
EPA 525	All constituents	µg/l	-	-		
EPA 531.	All constituents	µg/l	-	-		
EPA 549	All constituents	µg/l	-	-	ND	
Agricultural Chemical Analyses						
Test Method	Constituent					
EPA 507, 619	Atrazine (AAtrex)	µg/l	3	3	ND	
	Molinate (Ordram)	µg/l	None	20	ND	
	Simazine (Princep)	µg/l	4 P	4	ND	
	Thiobencarb (Bolero)	µg/l	None	70	ND	
	Bromacil (Hyvar)	µg/l	None	None	ND	
	Butachlor	µg/l	None	None	ND	
	Diazinon	µg/l	None	14 A	ND	
	Dimethoate	µg/l	None	None	ND	
	Metolachlor	µg/l	None	None	ND	
	Metribuzin	µg/l	None	None	ND	
	Propachlor	µg/l	None	None	ND	
	Prometryne (Caparol)	µg/l	None	None	ND	
Other	Acephate	µg/l	None	None		
	Aldicarb (Temik)	µg/l	7	10 A	ND	
	Bentazon (Basagran)	µg/l	None	18	ND	
	Captan	µg/l	None	350 A		
	Carbofuran (Furadan)	µg/l	40	18	ND	
	Chlordane	µg/l	2	0.1	ND	
	Chlorothalonil (Bravo)	µg/l	None	None	ND	
	2,4-D	µg/l	70	70	ND	
	Endrin	µg/l	2	0.2	ND	
	Eptam	µg/l	None	None		
	Heptachlor	µg/l	0.4	0.01	ND	
	Heptachlor epoxide	µg/l	0.2	0.01	ND	
	IPC	µg/l	None	None		
	Lindane (gamma-BHC)	µg/l	0.2	0.2	ND	
	Methoxychlor	µg/l	40	40	ND	
	Napthalene	µg/l	None	None	ND	ND
	Pentachlorophenol	µg/l	1	None	ND	
	2,4,5-T	µg/l	None	None	ND	
	2,4,5-TP (Silvex)	µg/l	50	10	ND	
	Toxaphene	µg/l	3	5	ND	
	Alachlor (Alanex)	µg/l	2	2	ND	
	Aldrin	µg/l	None	None	ND	
	Dieldrin	µg/l	None	None	ND	
	Hexachlorobenzene	µg/l	1	1	ND	
	PCB 1016	µg/l	None	None	ND	
	PCB 1221	µg/l	None	None	ND	
	PCB 1232	µg/l	None	None	ND	
	PCB 1242	µg/l	None	None	ND	
	PCB 1248	µg/l	None	None	ND	
	PCB 1254	µg/l	None	None	ND	
	PCB 1260	µg/l	None	None	ND	

P = Proposed MCL
A = California Action Level

TABLE 7-12
NYE WELL COMPOSITE
AVERAGE MONTHLY TURBIDITY

Date	EC (µhoms/cm)	Turbidity (NTU)
Jan-95	no data	
Feb-95	770	0.2
Mar-95	810	0.35
Apr-95	860	2
May-95	830	0.35
Jun-95	840	0.3
Jul-95	850	0.2
Aug-95	940	0.65
Sep-95	930	0.4
Oct-95	990	0.45
Nov-95	890	0.6
Dec-95	880	1
Jan-96	no data	
Feb-96	no data	
Mar-96	no data	
Apr-96	no data	
May-96	no data	
Jun-96	no data	
Jul-96	no data	
Aug-96	no data	
Sep-96	no data	
Oct-96	no data	
Nov-96	no data	
Dec-96	no data	
Jan-97	no data	
Feb-97	no data	
Mar-97	no data	
Apr-97	no data	
May-97	no data	
Jun-97	no data	
Jul-97	no data	
Aug-97	no data	
Sep-97	no data	
Oct-97	no data	
Nov-97	no data	
Dec-97	no data	
Jan-98	no data	
Feb-98	no data	
Mar-98	no data	
Apr-98	no data	
May-98	no data	
Jun-98	no data	
Jul-98	no data	
Aug-98	no data	
Sep-98	no data	
Oct-98	no data	
Nov-98	no data	
Dec-98	no data	
Jan-99	no data	
Feb-99	no data	
Mar-99	no data	
Apr-99	no data	
May-99	no data	
Jun-99	no data	
Jul-99	no data	
Aug-99	no data	
Sep-99	no data	
Oct-99	no data	
Nov-99	no data	
Dec-99	no data	
Jan-00	no data	
Feb-00	no data	
Mar-00		
Apr-00		
May-00		
Jun-00		
Jul-00		
Aug-00		
Sep-00		
Oct-00		
Nov-00		
Dec-00		
AVG.	**872**	**0.59**

TABLE 7-13
FOSTER PARK FLUME (STATION 27)
GENERAL MINERAL AND GENERAL PHYSICAL ANALYSIS

General Mineral	Units	MCL-95	MCL-00	1/95	2/95	3/95	4/95	5/95	6/95	7/95	8/95	9/95	10/95	11/95	12/95	1/96	2/96	3/96	4/96	5/96
Calcium (Ca)	mg/l				113	116	114	125	129	118	122	122	119	124	114	118	122	120	122	120
Magnesium (Mg)	mg/l				28.9	30.9	30.2	32.7	34.4	32.9	33.2	34.3	33.2	32.9	30.5	31.3	31.9	31.3	32.2	32.5
Sodium (Na)	mg/l				39	41	36	45	35	44	45	45	45	50	34	50	49	47	43	50
Potassium (K)	mg/l			N	2.1	2	2.2	2.3	2.3	2.2	2.3	2.3	2.6	3.3	2.2	2	2.2	2.1	2.4	2.4
Alkalinity (CaCO3)	mg/l			O	188	194	178	179	175	176	185	178	189	182	180	201	200	199	179	178
Hydroxide (OH)	mg/l				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbonate (CO3)	mg/l			D	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO3)	mg/l			A	230	237	217	219	213	215	226	217	231	222	220	246	244	243	218	217
Chloride (Cl)	mg/l	250 R	250 R	T	24	17	15	17	20	28	26	25	26	27	31	33	40	33	39	43
Sulfate (SO4)	mg/l	250 R	250 R	A	220	214	235	254	233	249	246	247	242	251*	240	247	243	240	253*	253*
Nitrate (NO3)	mg/l	45 M	45 M		9.3	10.2	9.3	10.2	8.4		8		6.6	5.8	5.8		7.5	8	8.9	5.8
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M		0.39	0.50	0.57	0.42	0.82	0.24	0.47	0.46	0.67	0.57	0.55	0.47	0.2	0.37	0.19	0.4
Copper (Cu)	mg/l	1 R	1 R																	
Iron (Fe)	mg/l	0.3 R	0.3 R		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Manganese (Mn)	mg/l	0.05 R	0.05 R		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Dissolved Solids (TDS)	mg/l	500 R	500 R		564*	716*	576*	588*	644*	740*	712*	580*	664*	648*	580*	676*	684*	648*	668*	664*
Electrical Conductivity (EC)	mg/l	900 R	900 R		800	830	870	830	820		950*		960*	870	870		890	830	920*	960*
pH					6.82	7.46	7.41	7.59	7.56		7.46		7.62	7.62	7.64		7.58	7.51	7.6	7.78
Phosphate (PO4)	mg/l				0.05	0.03	0.08	0.07	<0.03	0.04	0.04	0.02	<0.01	0.03	0.03	0.07	0.06	0.05	<0.01	0.05
General Physical																				
Color (Unfiltered)	units	15 R	15 R		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	3	<3	<3	<3	5
Odor (at 60 deg C)	TON	3 R	3 R																	
Lab Turbidity (U)	NTU	5 R	5 R																	

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered water
* Exceeds Drinking Water Standard

TABLE 7-13
FOSTER PARK FLUME (STATION 27)
GENERAL MINERAL AND GENERAL PHYSICAL ANALYSIS

General Mineral	Units	MCL-95	MCL-00	6/96	7/96	8/96	9/96	10/96	11/96	12/96	1/97	2/97	3/97	4/97	5/97	6/97	7/97	8/97	9/97
Calcium (Ca)	mg/l			127	122	126	125	125	138	126	124	123	120	124	120	121	118	120	120
Magnesium (Mg)	mg/l			31.7	28.7	31.6	32.9	31.3	33.3	32.3	32.6	32	32.1	34.1	32.8	32.9	31.7	32.1	32
Sodium (Na)	mg/l			53	51	38	40	52	46	49	51	43	44	49	24	50	48	47	53
Potassium (K)	mg/l			3	2.5	2.7	3.6	3.7	3.1	2.3	2.3	2.2	2.3	1.9	2.3	2.3	2.6	2.4	2.5
Alkalinity (CaCO3)	mg/l			201	198	176	210	215	211	210	207	198	193	190	187	191	196	195	197
Hydroxide (OH)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbonate (CO3)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO3)	mg/l			246	241	215	257	262	257	256	253	241	236	232	228	233	239	238	240
Chloride (Cl)	mg/l	250 R	250 R	39	35	250	30	26	37	42	44	38	32	38	40	40	40	44	41
Sulfate (SO4)	mg/l	250 R	250 R	*256*	244	36	*265*	189	*256*	240	*266*	238	249	242	248	242	239	236	220
Nitrate (NO3)	mg/l	45 M	45 M	4.9	4.9			<1.8	4	6.6	8.9	12	10.2	11.5	9.7	8	7.5	5.8	
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.5	0.42	0.5	0.54	0.53	0.51	0.43	0.56	0.51	0.57	0.54	0.52	0.49	0.54	0.53	0.54
Copper (Cu)	mg/l	1 R	1 R																
Iron (Fe)	mg/l	0.3 R	0.3 R	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Manganese (Mn)	mg/l	0.05 R	0.05 R	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.05	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Dissolved Solids (TDS)	mg/l	500 R	500 R	*672*	*808*	*788*	*664*	*664*	*672*	*636*	*586*	*680*	*636*	*644*	*720*	*632*	*692*	*696*	*775*
Electrical Conductivity (EC)	mg/l	900 R	900 R	*940*	*1040*	*940*		900	860	830	840	900	820	*920*	*980*	*990*	*950*	*940*	
pH				7.45	7.47	8.16		7.4	7.42	7.53	7.47	7.45	7.47	7.68	7.59	7.62	7.64	7.6	
Phosphate (PO4)	mg/l			0.04	0.07	<.01	0.21	0.11	<0.10	0.11	0.15	0.11	<0.01	<0.01	<0.01	<0.01	0.15	<0.01	<0.01
General Physical																			
Color (Unfiltered)	units	15 R	15 R	<3	<3	<3	3	<3	<3	<3	3	<3	<3	5	<3	<3	<3	3	<3
Odor (at 60 deg C)	TON	3 R	3 R																
Lab Turbidity (U)	NTU	5 R	5 R																

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered water
* Exceeds Drinking Water Standard

TABLE 7-13
FOSTER PARK FLUME (STATION 27)
GENERAL MINERAL AND GENERAL PHYSICAL ANALYSIS

General Mineral	Units	MCL-95	MCL-00	10/97	11/97	12/97	1/98	2/98	3/98	4/98	5/98	6/98	7/98	8/98	9/98	10/98	11/98	12/98	1/99
Calcium (Ca)	mg/l			126	126	125	123			112	110	116	115	114	111	109	109	121	113
Magnesium (Mg)	mg/l			33	33	33	33			29	30	33.8	32.9	29.8	28.9	31.2	30.3	31.2	32.6
Sodium (Na)	mg/l			47	48	48	49			39	37	40	42	47	47	40	43	46	45
Potassium (K)	mg/l			2.4	2.6	2.5	2.3	N	N	2.1	1.9	2.6	2.5	3.2	3	3	2.4	1.9	2.5
Alkalinity (CaCO3)	mg/l			202	209	204	204	O	O	207	188	180	182	178	182	187	179	188	186
Hydroxide (OH)	mg/l			<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbonate (CO3)	mg/l			<1	<1	<1	<1	D	D	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO3)	mg/l			246	255	249	249	A	A	252	230	220	222	217	222	228	219	230	227
Chloride (Cl)	mg/l	250 R	250 R	40	44	41	54	T	T	20	16	13	20	21	19	19	29	43	31
Sulfate (SO4)	mg/l	250 R	250 R	228	248	235	233	A	A	210	240	242	252*	242	245	242	221	261*	276*
Nitrate (NO3)	mg/l	45 M	45 M	4	4	8	8.9			10.2		6.6	8.9	7.1		4.4	7.1	10.6	5.3
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.55	0.51	0.53	0.56			0.45	0.48	0.48	0.5	0.5	0.54	0.53	0.55	0.5	0.5
Copper (Cu)	mg/l	1 R	1 R																
Iron (Fe)	mg/l	0.3 R	0.3 R	<0.10	<0.10	<0.10	<0.10			<0.10	<0.10	0.4	<0.10	0.2	<0.10	<0.10	<0.10	<0.10	<0.10
Manganese (Mn)	mg/l	0.05 R	0.05 R	<0.03	<0.03	<0.03	<0.03			<0.03	<0.03	<0.03	<0.03	0.07	<0.03	<0.03	<0.03	<0.03	<0.03
Dissolved Solids (TDS)	mg/l	500 R	500 R	604*	664*	700*	616*			680*	644*	656*	672*	620*	640*	684*	612*	628*	616*
Electrical Conductivity (EC)	mg/l	900 R	900 R	940*	990*	900	870			800	840	860	900	900	920*	920*	820	780	850
pH				7.42	7.34	7.45	7.42			7.37	7.47	7.46	7.7	7.4	7.4	7.43	7.46	7.54	7.49
Phosphate (PO4)	mg/l			<0.01	<0.01	<0.01	<0.01			0.79	<0.01	0.11	0.1	<0.01	<0.01	<0.01	0.14	<0.01	<0.01
General Physical																			
Color (Unfiltered)	units	15 R	15 R	<3	<3	<3	<3			<3	<3	<3	<3	<3	3	<3	<3	<3	<3
Odor (at 60 deg C)	TON	3 R	3 R																
Lab Turbidity (U)	NTU	5 R	5 R																

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered water
* Exceeds Drinking Water Standard

TABLE 7-13
FOSTER PARK FLUME (STATION 27)
GENERAL MINERAL AND GENERAL PHYSICAL ANALYSIS

General Mineral	Units	MCL-95	MCL-00	2/99	3/99	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00
Calcium (Ca)	mg/l			117	119	115	114	109	112	111	116	114	119	121	130	118
Magnesium (Mg)	mg/l			33.4	34.5	28.4	33.9	27.6	28.5	31.8	30.9	39.1	30	29.8	34.3	33.3
Sodium (Na)	mg/l			46	45	40	47	40	45	43	47	49	46	46	46	53
Potassium (K)	mg/l			2.1	2.2	2.6	2.5	2.5	2.7	2.6	1.9	2.2	2.2	2.1	2.7	2.5
Alkalinity (CaCO3)	mg/l			185	210	201	214	212	200	186	204	205	210	217	211	208
Hydroxide (OH)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbonate (CO3)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO3)	mg/l			225	256	245	261	258	244	227	249	251	256	265	257	253
Chloride (Cl)	mg/l	250 R	250 R	40	35	34	35	34	33	32	32	32	43	37	34	37
Sulfate (SO4)	mg/l	250 R	250 R	261*	255*	270*	262*	243	250*	242	246	248	271*	246	240	235
Nitrate (NO3)	mg/l	45 M	45 M	9.7	8.9	6.2						3.7				
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.51	0.48	0.55	0.5	0.49	0.52	0.52	0.54	0.45	0.52	0.51	0.52	0.5
Copper (Cu)	mg/l	1 R	1 R													
Iron (Fe)	mg/l	0.3 R	0.3 R	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Manganese (Mn)	mg/l	0.05 R	0.05 R	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.30	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Dissolved Solids (TDS)	mg/l	500 R	500 R	616*	692*	660*	664*	686*	660*	584*	656*	660*	632*	556*	584*	676*
Electrical Conductivity (EC)	mg/l	900 R	900 R	820	870	810						910*	940*	880		850
pH				7.94	8.02	7.7						7.91	7.43	7.53		7.4
Phosphate (PO4)	mg/l			<0.01	0.1	<0.01	0.1	0.12	<0.01	<0.01	0.07	0.05	0.08	0.06	0.29	<0.01
General Physical																
Color (Unfiltered)	units	15 R	15 R	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Odor (at 60 deg C)	TON	3 R	3 R													
Lab Turbidity (U)	NTU	5 R	5 R													

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered water
* Exceeds Drinking Water Standard

TABLE 7-14
FOSTER PARK FLUME (STATION 27)
TOTAL COLIFORM AND TURBIDITY TEST RESULTS

Date	Total Coliform (MPN/100ml)	Turbidity (NTU)
1/3/95	no data	
1/9/95	220	1.00
1/17/95	350	0.65
1/23/95	26	<.10
1/30/95	23	0.10
2/6/95	13	0.20
2/13/95	8	0.10
2/21/95	<2	0.10
2/27/95	2	0.15
3/6/95	43	0.15
3/13/95	70	0.20
3/20/95	5	0.10
3/27/95	2	0.10
4/3/95	2	0.20
4/10/95	<2	0.10
4/17/95	31	0.40
4/24/95	350	0.30
5/1/95	49	0.20
5/8/95	13	0.10
5/15/95	540	0.25
5/22/95	23	<.10
5/30/95	33	<.10
6/5/95	79	0.20
6/12/95	23	0.15
6/19/95	79	0.15
6/26/95	79	0.20
7/3/95	79	0.15
7/10/95	33	0.30
7/17/95	70	0.15
7/24/95	170	0.20
7/31/95	no data	
8/7/95	49	0.55
8/14/95	170	0.25
8/21/95	130	0.25
8/28/95		0.15
9/5/95	49	0.15
9/11/95	110	0.2
9/18/95	79	0.25
9/25/95	70	0.25
10/2/95	33	0.2
10/9/95	22	0.25
10/16/95	23	0.25
10/23/95	17	0.15
10/30/95	70	0.2
11/6/95	49	0.25
11/13/95	49	0.15
11/20/95	33	0.2
11/27/95	17	0.1
12/4/95	11	0.2
12/11/95	33	0.15
12/18/95	17	0.15
12/26/95	11	0.15

Date	Total Coliform (MPN/100ml)	Turbidity (NTU)
1/2/96	22	0.15
1/8/96	8	0.25
1/16/96	4	0.25
1/22/96	<2	0.10
1/29/96	5	0.15
2/5/96	2	0.20
2/12/96	170	0.35
2/20/96	350	0.55
2/26/96	130	0.65
3/4/96	8	0.15
3/11/96	5	0.10
3/18/96	23	0.20
3/25/96	2	0.15
4/1/96	8	0.20
4/8/96	no data	
4/15/96	2	0.20
4/22/96	13	0.15
4/29/96	0	0.20
5/6/96	49	0.35
5/13/96	11	0.15
5/20/96	79	0.2
5/28/96	8	0.15
6/3/96	9	0.15
6/10/96	13	0.15
6/17/96	33	0.15
6/24/96	240	0.15
7/1/96	79	0.35
7/8/96	>2400	0.1
7/15/96	220	0.25
7/22/96	0	<.10
7/29/96		0.1
8/3/96	0.1	<2
8/12/96	<0.10	<2
8/19/96	0.1	2
8/26/96	0.15	2
9/2/96	2	0.1
9/9/96	<2	0.25
9/16/96	<2	0.1
9/23/96	<2	0.15
9/30/96	<2	0.1
10/7/96	<2	0.15
10/14/96	<2	0.15
10/21/96	<2	0.1
10/28/96	5	0.1
11/4/96	no data	
11/12/96	no data	
11/18/96	no data	
11/25/96	>2400	0.7
12/2/96	no data	
12/9/96	no data	
12/16/96	920	0.35
12/23/96	1600	7
12/30/96	33	1.2

TABLE 7-14
FOSTER PARK FLUME (STATION 27)
TOTAL COLIFORM AND TURBIDITY TEST RESULTS

Date	Total Coliform (MPN/100ml)	Turbidity (NTU)	Date	Total Coliform (MPN/100ml)	Turbidity (NTU)
1/6/97	14	0.15	1/5/98	13	0.15
1/13/97	130	<.10	1/12/98	17	0.3
1/21/97	2	<.10	1/19/98	49	0.1
1/27/97	49	0.15	1/26/98	0	0.3
			2/2/98	no data	
FEBRUARY IS MISSING			2/9/98	no data	
			2/17/98	no data	
			2/23/98	no data	
3/3/97	<2	<.10	3/2/98	no data	
3/10/97	9	<.10	3/9/98	240	7.5
3/17/97	79	0.25	3/16/98	130	2.1
3/24/97	350	0.1	3/23/98	no data	
3/31/97	13	0.15	3/30/98	11	0.2
4/7/97	8	0.2	4/6/98	17	0.65
4/14/97	49	0.15	4/13/98	180	2.1
4/21/97	no data		4/20/98	33	0.95
4/28/97	110	0.1	4/27/98	33	1.2
5/5/97	79	0.15	5/4/98	79	1.8
5/12/97	33	0.15	5/11/98	46	0.4
5/19/97	49	0.15	5/18/98	49	0.7
5/27/97	540	0.1	5/26/98	79	0.15
6/2/97	49	0.2	6/1/98	220	10.5
6/9/97	130	0.15	6/8/98	22	0.45
6/16/97	79	0.2	6/15/98	23	0.35
6/23/97		0.15	6/22/98	17	0.25
6/30/97		0.15	6/29/98	22	0.35
7/7/97	350	0.7	7/6/98	34	0.3
7/14/97	49	0.1	7/13/98	8	0.4
7/21/97	130	0.15	7/20/98	11	0.25
7/28/97	350	0.2	7/27/98	46	0.35
8/4/97	280	0.15	8/3/98	22	0.65
8/11/97	110	0.2	8/10/98	240	0.25
8/18/97	920	0.1	8/17/98	33	0.2
8/25/97	220	0.15	8/24/98	8	0.15
9/1/97	33	0.1	8/31/98	17	0.25
9/8/97	2	0.35	9/8/98	64	0.2
9/15/97	<2	<.10	9/14/98	23	0.5
9/22/97	<2		9/21/98	13	0.35
9/29/97	<2	<.10	9/28/98	23	0.3
10/6/97	<2	0.15	10/5/98	23	0.35
10/13/97	2	<.10	10/12/98	17	0.3
10/20/97	<2	<.10	10/19/98	8	0.25
10/27/97	<2	0.15	10/26/98	150	0.25
11/3/97	2	0.45	11/2/98	2	0.85
11/10/97	<2	0.15	11/9/98	8	0.25
11/17/97	<2	<.10	11/16/98	4	0.3
11/24/97	<2	<.10	11/23/98	23	0.25
12/1/97	33	0.3	11/30/98	33	0.35
12/8/97	17	0.25	12/7/98	33	0.5
12/15/97	17	<.10	12/14/98	33	0.25
12/22/97	17	0.15	12/21/98	14	0.25
12/29/97	17	0.15	12/28/98	14	0.25

TABLE 7-14
FOSTER PARK FLUME (STATION 27)
TOTAL COLIFORM AND TURBIDITY TEST RESULTS

Date	Total Coliform (MPN/100ml)	Turbidity (NTU)
1/4/99	49	0.4
1/11/99	11	0.25
1/19/99	5	0.4
1/25/99	<2	0.6
2/1/99	<2	0.35
2/8/99	no data	
2/16/99	no data	
2/22/99	<2	0.35
3/1/99	8	0.3
3/8/99	23	0.3
3/15/99	46	0.4
3/22/99	79	0.25
3/29/99	2	0.25
4/5/99	5	0.3
4/12/99	11	0.3
4/19/99	4	0.31
4/26/99	49	0.1
5/3/99	2	0.2
5/10/99	2	0.4
5/17/99	<2	0.35
5/24/99	<2	0.2
6/1/99	5	0.2
6/7/99	<2	0.5
6/14/99	no data	
6/21/99	no data	
6/28/99	7	0.35
7/6/99	<2	0.25
7/12/99	<2	0.3
7/19/99	<2	0.2
7/26/99	<2	0.25
8/2/99	5	0.15
8/9/99	7	0.35
8/16/99	14	0.3
8/23/99	2	0.35
8/30/99	11	0.35
9/7/99	70	0.15
9/13/99	7	0.4
9/20/99	23	0.3
9/27/99	23	0.25
10/4/99	14	0.2
10/11/99	170	0.25
10/18/99	23	0.1
10/25/99	110	0.3
11/1/99	14	0.3
11/8/99	46	0.25
11/15/99	8	0.2
11/22/99	7	0.2
11/29/99	<2	0.15
12/6/99	2	0.2
12/13/99	2	0.1
12/20/99	2	0.3
12/27/99	8	0.1

Date	Total Coliform (MPN/100ml)	Turbidity (NTU)
1/3/00	2	0.3
1/10/00	2	0.5
1/18/00	8	0.15
1/24/00	<2	0.2
1/31/00	5	0.15
2/7/00	33	0.3
2/14/00	31	0.4
2/22/00	13	0.2
2/28/00	17	0.1
1989-1994		
Average*=	143.7	0.3
1995-1999		
Average*=	84.8	0.4
1989-1999		
Average*=	117.6	0.35

*Coliform >2400 averaged as 2400, so acti
averages are probably higher than shown.

TABLE 7-15
CMWD#1 INTO KINGSTON RESERVOIR
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	1/3/95	2/6/95	3/6/95	4/3/95	5/1/95	6/5/95	7/10/95	8/7/95	9/11/95	10/2/95	11/6/95	12/4/95
Calcium (Ca)	mg/l			62	89	63	62	60	64	63	66	66	66	66	62
Magnesium (Mg)	mg/l			24	24.6	23.6	23.2	26.2	24.3	23.3	24.3	24.9	25.2	23.8	22
Sodium (Na)	mg/l			29	41	27	27	3.3	32	23	26	24	16	27	21
Potassium (K)	mg/l			2.7	2.4	2.8	2.8	3.3	2.9	2.6	2.7	2.7	2.8	3.5	2.5
Alkalinity ($CaCO_3$)	mg/l			118	169	113	120	108	116	116	121	117	112	113	114
Hydroxide (OH)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbonate (CO_3)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO_3)	mg/l			144	207	138	147	132	141	141	147	143	137	137	139
Sulfate (SO_4)	mg/l	250 R/500 M	250 R/500 M	153	169	140	142	135	134	134	134	139	132	143	138
Chloride (Cl)	mg/l	250 R	250 R	14	18	13	14	12	14	14	14	12	15	17	12
Nitrate (NO_3)	mg/l	45 M	45 M	1.8	5.8	1.8	1.8	2.2	1.8	<1.8	<1.8	1.8	1.8	<1.8	<1.8
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.27	0.29	0.44	0.36	0.3	0.81	0.12	0.07	0.37	0.55	0.5	0.4
Copper (Cu)	µg/l	1000 R	1000 R												
Iron (Fe)	µg/l	300 R	300 R	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Manganese (Mn)	µg/l	50 R	50 R	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Zinc (Zn)	µg/l	5000 R	5000 R							<50					
Foaming Agents (MBAS)	mg/l	0.5 R	0.5 R								<.05				
pH	units	6.5-8.6 R		6.98	6.87	7.51	7.43	7.38	7.33	7.37	7.37	7.58	7.46	7.57	7.68
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	540	660	560	590	550	550	530	600	590	620	540	530
Dissolved Solids (TDS)	mg/l	500 R/1000 M	500 R/1000 M	328	428	408	328	368	376	428	492	340	372	352	364
Hardness ($CaCO_3$)	mg/l			254	322	254	250	257	261	254	266	446	267	263	244
Boron (B)	mg/l			0.22	0.35	0.22	0.23	0.22	0.22	0.18	0.16	0.15	0.18	0.21	0.39
Phosphate (PO_4)	mg/l			0.17	0.08	0.13	0.19	0.3	116	0.12	0.28	0.42	0.18	0.16	0.47
Silica	mg/l														
General Physical															
Color (Unfiltered)		15 R	15 R	<3	<3	<3	<3	<3	<3	<3	25*	80*	60*	60*	50*
Odor (at 60 deg C)	TON	3 R	3 R												
Lab Turbidity	NTU	0.5	0.5	0.5	1	0.85	2	6	0.75	0.5	18*	12*	40*	2	17*
Temperature	°C			13.8	16.1	16	18.5	19.8	21.2	24.4	25.3	23.6	22.5	18.3	16.9
Langlier Index		5 R	5 R	-0.86	-0.62	-0.3	-0.29	-0.37	-0.33	-0.22	-0.16	0	-0.17	-0.15	-0.11
Inorganic Chemical															
Arsenic (As)	µg/l	50 M	50 M							9					
Barium (Ba)	µg/l	1000 M	1000 M							134					
Cadmium (Cd)	µg/l	10 M	5 M							<1.0					
Chromium (Total Cr)	µg/l	50 M	50 M							3					
Lead (Pb)	µg/l	50 M								<2					
Mercury (Hg)	µg/l	2 M	2 M							<1					
Selenium (Se)	µg/l	10 M	50 M							24					
Silver (Ag)	µg/l	50 M	50 M							1					
Aluminum (Al)	µg/l	1000 M	1000 M												

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
*Exceeds Drinking Water Standard

TABLE 7-15
CMWD#1 INTO KINGSTON RESERVOIR
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	1/8/96	2/5/96	3/4/96	4/1/96	5/6/96	6/3/96	7/1/96	8/1/96	9/9/96	10/7/96	11/4/96	12/2/96
Calcium (Ca)	mg/l			62	65	67	62	62	63	63	66	63	64	65	51
Magnesium (Mg)	mg/l			21.7	22.6	22.5	21.6	22.7	17.7	19.9	21.7	22	24.9	22.8	18.6
Sodium (Na)	mg/l			34	18	23	27	35	36	28	32	32	28	28	25
Potassium (K)	mg/l			1.9	2.8	2.8	2.6	2.9	1.4	4	3.3	4	4.2	3.3	2.8
Alkalinity ($CaCO_3$)	mg/l			145	128	136	114	114	133	125	116	133	136	142	133
Hydroxide (OH)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbonate (CO_3)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO_3)	mg/l			177	156	166	139	139	162	153	142	162	166	173	162
Sulfate (SO_4)	mg/l	250 R/500 M	250 R/500 M	136	133	133	134	140	138	129	246	144	134	142	139
Chloride (Cl)	mg/l	250 R	250 R	16	19	14	15	19	14	11	18	10	63	16	17
Nitrate (NO_3)	mg/l	45 M	45 M	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	2.2	4.4	<1.8	<1.8	<1.8	<1.8
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	1.4	<.10	0.1	0.14	0.28	0.38	0.29	0.36	0.38	0.39	0.37	0.19
Copper (Cu)	µg/l	1000 R	1000 R								130				
Iron (Fe)	µg/l	300 R	300 R	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Manganese (Mn)	µg/l	50 R	50 R	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Zinc (Zn)	µg/l	5000 R	5000 R								270				
Foaming Agents (MBAS)	mg/l	0.5 R	0.5 R								<0.05				
pH	units	6.5-8.6 R		7.57	7.64	7.76	7.72	7.68	7.64	7.52	7.56	7.58	7.44	7.63	7.67
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	530	530	500	570	580	560	620	590	580	510	480	470
Dissolved Solids (TDS)	mg/l	500 R/1000 M	500 R/1000 M	384	436	364	368	376	380	428	384	380	336	692*	368
Hardness ($CaCO_3$)	mg/l			244	255	259	244	249	230	240	255	248	262	257	204
Boron (B)	mg/l			0.19	0.12	0.15	0.22	0.18	0.16	0.26	0.12	0.24	0.14	<.10	0.14
Phosphate (PO_4)	mg/l			0.25	0.36	0.12	0.04	0.15	0.14	0.2	<.01	0.33	0.11	<.10	<.01
Silica	mg/l														
General Physical															
Color (Unfiltered)		15 R	15 R	40*	20*	5	<3	<3	0.45		<3	3	5	<3	<3
Odor (at 60 deg C)	TON	3 R	3 R												
Lab Turbidity	NTU	0.5	0.5	10*	9*	1.3*	0.5	0.75*	0.45	6.8*	0.4	0.35	0.45	0.55*	<.10
Temperature	°C			15.2	15.2	15.4	17.1	21.9	23.1	25.2	26.4		22.6	17.7	15.1
Langlier Index		5 R	5 R	-0.16	-0.13	0.04	-0.06	0.02	0.08	-0.02	0.05		-0.11	-0.04	-0.18
Inorganic Chemical															
Arsenic (As)	µg/l	50 M	50 M								<5				
Barium (Ba)	µg/l	1000 M	1000 M								110				
Cadmium (Cd)	µg/l	10 M	5 M								<1.0				
Chromium (Total Cr)	µg/l	50 M	50 M								<10				
Lead (Pb)	µg/l	50 M									7				
Mercury (Hg)	µg/l	2 M	2 M								<1.0				
Selenium (Se)	µg/l	10 M	50 M								6				
Silver (Ag)	µg/l	50 M	50 M								<10				
Aluminum (Al)	µg/l	1000 M	1000 M								787				

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
*Exceeds Drinking Water Standard

TABLE 7-15
CMWD#1 INTO KINGSTON RESERVOIR
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	1/6/97	2/3/97	3/3/97	4/7/97	5/5/97	6/2/97	7/7/97	8/4/97	9/8/97	10/6/97	11/3/97	12/1/97
Calcium (Ca)	mg/l			60	61	61	63	66	61	61	61	61	63	59	60
Magnesium (Mg)	mg/l			22.8	22	22.5	23	23.8	22.5	32.7	22.1	23.9	23.8	23.8	24
Sodium (Na)	mg/l			28	23	24	26	26	26	26	27	24	25	23	27
Potassium (K)	mg/l			2.6	2.7	2.6	2.4	2.6	2.6	2.6	2.6	2.6	2.8	2.8	2.9
Alkalinity ($CaCO_3$)	mg/l			126	111	110	118	120	123	118	120	118	112	112	111
Hydroxide (OH)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbonate (CO_3)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO_3)	mg/l			154	136	134	144	147	150	143	147	145	137	136	136
Sulfate (SO_4)	mg/l	250 R/500 M	250 R/500 M	143	145	142	139	145	137	142	141	142	141	150	141
Chloride (Cl)	mg/l	250 R	250 R	18	16	13	14	17	17	18	17	18	19	20	18
Nitrate (NO_3)	mg/l	45 M	45 M	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8		<1.8
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.44	0.4	0.39	0.4	0.38	0.35	0.39	0.39	0.4	0.42	0.41	0.41
Copper (Cu)	µg/l	1000 R	1000 R												
Iron (Fe)	µg/l	300 R	300 R	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Manganese (Mn)	µg/l	50 R	50 R	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Zinc (Zn)	µg/l	5000 R	5000 R												
Foaming Agents (MBAS)	mg/l	0.5 R	0.5 R												
pH	units	6.5-8.6 R		7.53	7.64	7.65	7.78	7.72	7.55	7.36	7.66	7.57	7.59	7.63	7.6
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	500	530	490	530	600	590	580	580	590	550	560	530
Dissolved Solids (TDS)	mg/l	500 R/1000 M	500 R/1000 M	276	344	344	352	412	352	364	380	390	308	360	376
Hardness ($CaCO_3$)	mg/l			245		244	252	263	245	287	244	251	256	246	249
Boron (B)	mg/l			0.2	0.19	0.13	0.16	0.14	0.17	0.18	0.19	0.2	0.18	0.14	0.18
Phosphate (PO_4)	mg/l			0.15	<.01	<.01	<.01	<.01	<.01	<.01	<.01	0.12	<.01	<.01	<.01
Silica	mg/l														
General Physical															
Color (Unfiltered)		15 R	15 R	<3	<3	<3	<3	<3	<3	<3	<3	<3	3	<3	<3
Odor (at 60 deg C)	TON	3 R	3 R												
Lab Turbidity	NTU	0.5	0.5	0.1	0.15	<.10	<.10	0.1	0.1	0.15	0.1	0.1	0.15	0.2	0.35
Temperature	°C			14.1	16.2	17	18.9	22.6	25.9	26	26.4	23.4	23.2		16.6
Langlier Index		5 R	5 R	-0.28	-0.18	-0.16	0.07	0.12	0.02	-0.19	0.13	-0.05	-0.03		-0.22
Inorganic Chemical															
Arsenic (As)	µg/l	50 M	50 M						<25						
Barium (Ba)	µg/l	1000 M	1000 M						102						
Cadmium (Cd)	µg/l	10 M	5 M						<1						
Chromium (Total Cr)	µg/l	50 M	50 M						<10						
Lead (Pb)	µg/l	50 M							<25						
Mercury (Hg)	µg/l	2 M	2 M						<30						
Selenium (Se)	µg/l	10 M	50 M						1						
Silver (Ag)	µg/l	50 M	50 M						<10						
Aluminum (Al)	µg/l	1000 M	1000 M						<50						

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
*Exceeds Drinking Water Standard

TABLE 7-15
CMWD#1 INTO KINGSTON RESERVOIR
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	1/5/98	2/2/98	3/2/98	4/6/98	5/4/98	6/1/98	7/6/98	8/3/98	9/14/98	10/5/98	11/9/98	12/7/98
Calcium (Ca)	mg/l			58	56	56			57	57	61	59	58	51	57
Magnesium (Mg)	mg/l			22.7	22.4	20.3			23.2	20.3	21.4	20.6	22.2	19.5	20.8
Sodium (Na)	mg/l			26	24	22			22	24	14	24	26	26	26
Potassium (K)	mg/l			2.8	2.5	2.3	N	N	2.6	2.6	3.2	2.7	2.7	2.8	3
Alkalinity ($CaCO_3$)	mg/l			112	115	108	O	O	117	116	115	112	117	111	112
Hydroxide (OH)	mg/l			<1	<1	<1			<1	<1	<1	<1	<1	<1	<1
Carbonate (CO_3)	mg/l			<1	<1	<1	D	D	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO_3)	mg/l			136	140	132	A	A	142	142	140	137	142	135	137
Sulfate (SO_4)	mg/l	250 R/500 M	250 R/500 M	145	119	134	T	T	126	122	124	110	113	109	149
Chloride (Cl)	mg/l	250 R	250 R	21	17	15	A	A	11	14	16	10	10	8	33
Nitrate (NO_3)	mg/l	45 M	45 M	2.2	2.2	2.2			<1.8	1.8	<1.8	<1.8	<1.8	<1.8	7.1
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.43	0.38	0.37			0.35	0.37	0.36	0.37	0.37	0.41	0.36
Copper (Cu)	µg/l	1000 R	1000 R						370						
Iron (Fe)	µg/l	300 R	300 R	<100	<100	<100			<100	<100	<100	<100	<100	<100	<100
Manganese (Mn)	µg/l	50 R	50 R	<30	<30	<30			<30	<30	<30	<30	<30	<30	<30
Zinc (Zn)	µg/l	5000 R	5000 R						<50						
Foaming Agents (MBAS)	mg/l	0.5 R	0.5 R						<.05						
pH	units	6.5-8.6 R		7.54	7.52	7.49			7.39	7.38	7.38	7.43	7.44	7.53	7.53
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	500	520	500			520	560	550	540	550	480	430
Dissolved Solids (TDS)	mg/l	500 R/1000 M	500 R/1000 M	372	304	348			348	384	332	336	380	312	316
Hardness ($CaCO_3$)	mg/l			238	232	222			237	228	241	231	235	207	227
Boron (B)	mg/l			0.2	0.18	0.17			0.16	0.11	0.14	0.17	0.16	0.14	0.24
Phosphate (PO_4)	mg/l			<.01	0.12	0.13			<.01	0.11	<.01	<.01	<.01	0..10	<.10
Silica	mg/l														
General Physical															
Color (Unfiltered)		15 R	15 R	<3	<3	<3			<3	<3	<3	<3	<3	<3	<3
Odor (at 60 deg C)	TON	3 R	3 R						<1						
Lab Turbidity	NTU	0.5	0.5	0.15	0.15	0.4			0.2	0.15	0.35	0.35	0.2	0.35	0.15
Temperature	°C			13.4	14.9	16.3			21.1	24.4	24.4	25	22	18.1	12.3
Langlier Index		5 R	5 R	-0.37	-0.35	-0.38			-0.32	-0.25	-0.22	-0.18	-0.24	-0.32	-0.41
Inorganic Chemical															
Arsenic (As)	µg/l	50 M	50 M						<5						
Barium (Ba)	µg/l	1000 M	1000 M						<100						
Cadmium (Cd)	µg/l	10 M	5 M						<1						
Chromium (Total Cr)	µg/l	50 M	50 M						<10						
Lead (Pb)	µg/l	50 M							<5						
Mercury (Hg)	µg/l	2 M	2 M						<1						
Selenium (Se)	µg/l	10 M	50 M						<5						
Silver (Ag)	µg/l	50 M	50 M						<10						
Aluminum (Al)	µg/l	1000 M	1000 M						<6						

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
*Exceeds Drinking Water Standard

TABLE 7-15
CMWD#1 INTO KINGSTON RESERVOIR
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	1/4/99	2/1/99	3/1/99	4/5/99	5/10/99	6/7/99	7/12/99	8/9/99	9/13/99	10/4/99	11/1/99	12/6/99
Calcium (Ca)	mg/l			58	62	58	57	56	55	55	57	56	55	54	54
Magnesium (Mg)	mg/l			24.1	25	23.7	22.3	23.5	19.7	22.1	22.7	21.8	23.8	22.1	20.3
Sodium (Na)	mg/l			16	27	19	21	24	23	21	20	26	30	25	25
Potassium (K)	mg/l			2.8	2.7	2.8	2.7	2.7	2.5	2.8	2.8	2.7	4.6	2.2	2.3
Alkalinity ($CaCO_3$)	mg/l			116	132	147	132	127	135	140	116	133	130	116	140
Hydroxide (OH)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbonate (CO_3)	mg/l			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate (HCO_3)	mg/l			142	161	179	162	155	165	171	142	162	158	137	170
Sulfate (SO_4)	mg/l	250 R/500 M	250 R/500 M	147	130	130	140	131	126	130	128	127	130	148	122
Chloride (Cl)	mg/l	250 R	250 R	19	18	17	17	16	14	15	13	14	13	22	15
Nitrate (NO_3)	mg/l	45 M	45 M	<1.8	1.8	2.7	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	2.2	<1.8
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.36	0.38	0.35	0.39	0.36	0.36	0.36	0.37	0.38	0.32	0.37	0.38
Copper (Cu)	µg/l	1000 R	1000 R						<50						
Iron (Fe)	µg/l	300 R	300 R	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Manganese (Mn)	µg/l	50 R	50 R	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Zinc (Zn)	µg/l	5000 R	5000 R						53						
Foaming Agents (MBAS)	mg/l	0.5 R	0.5 R						<.10						
pH	units	6.5-8.6 R		7.63	7.8	7.72	7.52	7.62	7.78	7.95	7.29	7.79	7.62	7.4	7.59
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	480	450	500	470	500	510	530	520	510	520	520	490
Dissolved Solids (TDS)	mg/l	500 R/1000 M	500 R/1000 M	312	204	368	344	348	352	364	428	344	352	324	336
Hardness ($CaCO_3$)	mg/l			245	257	439	235	237	218	228	235	230	234	226	217
Boron (B)	mg/l			0.17	0.15	0.18	0.15	0.1	0.11	0.23	0.17	0.14	0.19	0.16	0.15
Phosphate (PO_4)	mg/l			<.01	0.14	<.01	<.10	0.14	0.09	<.01	0.1	0.06	0.04	0.06	0.07
Silica	mg/l														
General Physical															
Color (Unfiltered)		15 R	15 R	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Odor (at 60 deg C)	TON	3 R	3 R												
Lab Turbidity	NTU	0.5	0.5	0.2	0.45	0.2	0.2	0.1	0.3	0.25	0.2	0.3	0.25	0.3	0.1
Temperature	°C			14.5	13	15.4	15	19.7	21.1	25.4	24.5	24	24	19	16
Langlier Index		5 R	5 R	-0.23	0	-0.02	-0.28	-0.09	0.12	0.41	-0.34	0.21	0.02	-0.38	-0.19
Inorganic Chemical															
Arsenic (As)	µg/l	50 M	50 M						<2						
Barium (Ba)	µg/l	1000 M	1000 M						121						
Cadmium (Cd)	µg/l	10 M	5 M						<1						
Chromium (Total Cr)	µg/l	50 M	50 M						<10						
Lead (Pb)	µg/l	50 M							<5						
Mercury (Hg)	µg/l	2 M	2 M						<1						
Selenium (Se)	µg/l	10 M	50 M						<5						
Silver (Ag)	µg/l	50 M	50 M						<10						
Aluminum (Al)	µg/l	1000 M	1000 M						103						

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
*Exceeds Drinking Water Standard

TABLE 7-15
CMWD#1 INTO KINGSTON RESERVOIR
GENERAL MINERAL, GENERAL PHYSICAL AND INORGANIC ANALYSIS

General Mineral	Units	MCL-95	MCL-00	1/10/00	2/7/00
Calcium (Ca)	mg/l			61	58
Magnesium (Mg)	mg/l			23	24.1
Sodium (Na)	mg/l			32	28
Potassium (K)	mg/l			2.9	2.5
Alkalinity ($CaCO_3$)	mg/l			146	119
Hydroxide (OH)	mg/l			<1	<1
Carbonate (CO_3)	mg/l			<1	<1
Bicarbonate (HCO_3)	mg/l			178	145
Sulfate (SO_4)	mg/l	250 R/500 M	250 R/500 M	123	111
Chloride (Cl)	mg/l	250 R	250 R	11	13
Nitrate (NO_3)	mg/l	45 M	45 M	<1.8	<1.8
Fluoride (F)	mg/l	1.4-2.4 M	2.0 M	0.37	0.38
Copper (Cu)	µg/l	1000 R	1000 R		
Iron (Fe)	µg/l	300 R	300 R	<100	<100
Manganese (Mn)	µg/l	50 R	50 R	<30	<30
Zinc (Zn)	µg/l	5000 R	5000 R		
Foaming Agents (MBAS)	mg/l	0.5 R	0.5 R		
pH	units	6.5-8.6 R		7.81	7.27
Electrical Conductance (EC)	µmhos/cm	900 R	900 R	470	460
Dissolved Solids (TDS)	mg/l	500 R/1000 M	500 R/1000 M	268	352
Hardness ($CaCO_3$)	mg/l			247	245
Boron (B)	mg/l			0.16	0.16
Phosphate (PO_4)	mg/l			0.05	0.14
Silica	mg/l				
General Physical					
Color (Unfiltered)		15 R	15 R	<3	<3
Odor (at 60 deg C)	TON	3 R	3 R		
Lab Turbidity	NTU	0.5	0.5	1.9*	0.3
Temperature	°C			14	18
Langlier Index		5 R	5 R	0.07	-0.49
Inorganic Chemical					
Arsenic (As)	µg/l	50 M	50 M		
Barium (Ba)	µg/l	1000 M	1000 M		
Cadmium (Cd)	µg/l	10 M	5 M		
Chromium (Total Cr)	µg/l	50 M	50 M		
Lead (Pb)	µg/l	50 M			
Mercury (Hg)	µg/l	2 M	2 M		
Selenium (Se)	µg/l	10 M	50 M		
Silver (Ag)	µg/l	50 M	50 M		
Aluminum (Al)	µg/l	1000 M	1000 M		

M = Mandatory Limit
R = Recommended Limit
U = Unfiltered Water
*Exceeds Drinking Water Standard

TABLE 7-16
CASITAS MWD #1
AVERAGE MONTHLY TURBIDITY

Date	Turbidity (NTU)
Jan-95	0.50
Feb-95	1.00
Mar-95	0.85
Apr-95	2.00
May-95	5.50
Jun-95	0.75
Jul-95	0.50
Aug-95	12.50
Sep-95	12.40
Oct-95	40.00
Nov-95	12.00
Dec-95	17.00
Jan-96	10.00
Feb-96	9.00
Mar-96	1.30
Apr-96	0.50
May-96	0.75
Jun-96	0.45
Jul-96	6.80
Aug-96	0.4
Sep-96	0.35
Oct-96	0.45
Nov-96	0.55
Dec-96	<0.10
Jan-97	0.10
Feb-97	0.15
Mar-97	<0.10
Apr-97	<0.10
May-97	0.10
Jun-97	0.10
Jul-97	0.15
Aug-97	0.10
Sep-97	0.10
Oct-97	0.15
Nov-97	0.20
Dec-97	0.35

Date	Turbidity (NTU)
Jan-98	0.15
Feb-98	0.15
Mar-98	0.40
Apr-98	not available
May-98	not available
Jun-98	0.20
Jul-98	0.15
Aug-98	0.35
Sep-98	0.35
Oct-98	0.20
Nov-98	0.35
Dec-98	0.15
Jan-99	0.20
Feb-99	0.45
Mar-99	0.20
Apr-99	0.20
May-99	0.10
Jun-99	0.30
Jul-99	0.25
Aug-99	0.20
Sep-99	0.30
Oct-99	0.25
Nov-99	0.30
Dec-99	0.10
Jan-00	1.90
Feb-00	0.30

Ave. 1989-1994 =	1.14
Ave. 1995-Sept 1996 =	6.41
Ave. Oct 1996-1999 =	0.23

TABLE 7-17
RADIOLOGICAL TEST SUMMARY
(CpCi/l)

Date	Constituent	Maximum Contaminant Level (CpCi/l)	Nye Well 1	Nye Well 2	Nye Well 7	Nye Well 8	Ventura River at Foster Park
4/6/95	Gross Alpha	15	1 ± 1	4 ± 2	3 ± 2	2 ± 2	3 ± 2
	Uranium	20	3 ± 2		1 ± 1	2 ± 1	
	Total Radium 226		0 ± 1	0 ± 1	0.1 ± 1	0.2 ± 1	2 ± 1
3/2/98	Radium 226						0.8 ± 1
	Radium 228						<1.4 ± 1
	Sum Radium 226 + Radium 228	5					<2.2 ± 2
	Uranium	20					2.4 ± 1
	Gross Alpha	15					5.0 ± 2
	Gross Beta	50					<2.1 ± 1
5/4/98	Gross Alpha	15	NA	4.3 ± 1.5	2.8 ± 1.1	3.2 ± 1.2	2.1 ± 1
	Gross Beta	50	NA	<2.3	<2.2	<2.2	2.3 ± 1
8/3/98	Gross Alpha	15	4.5 ± 1.5	3.9 ± 1.4	4.9 ±1.6	2.7 ± 1.2	
	Gross Beta	50	5.9 ± 1.7	2.5 ± 1.5	<2.5	<2.5	
11/2/98	Radium 226		<0.09	0.06 ± 0.04	0.09 ± 0.05	NA	
	Radium 228		<0.39	<0.39	<0.37	NA	
	Sum Radium 226 + Radium 228	5	<0.48	<0.45 ± 0.04	0.46 ± 0.05		
	Uranium	20	2.44 ± 0.3	2.05 ± 0.28	1.9 ± 0.3		
	Gross Alpha	15	5.4 ± 1.8	5.8 ± 1.8	5.1 ± 1.7	4.3 ± 1.5	
	Gross Beta	50	10.0 ± 1.9	11.0 ± 2.0	6.6 ± 1.7	6.3 ± 1.6	

TABLE 7-18
POWER RESERVOIR OUTFLOW
MONTHLY CHLORINE RESIDUAL AND TURBIDITY

Date	Chlorine Residual	Turbidity (NTU)
Jan-95	1.00	<.10
Feb-95	2.00	0.10
Mar-95	1.40	0.10
Apr-95	1.40	0.20
May-95	2.00	0.30
Jun-95	1.40	0.20
Jul-95	2.00	0.15
Aug-95	NA	0.30
Sep-95	2.00	0.20
Oct-95	2.00	0.20
Nov-95	2.00	0.15
Dec-95	1.40	10.00
Jan-96	1.60	<.10
Feb-96	1.40	5.70
Mar-96	1.60	0.10
Apr-96	1.40	0.10
May-96	1.10	0.20
Jun-96	1.60	0.10
Jul-96	1.80	0.15
Aug-96	2.00	0.15
Sep-96	1.10	0.20
Oct-96	1.30	0.10
Nov-96	1.30	0.20
Dec-96	1.40	0.10
Jan-97	1.90	0.10
Feb-97		
Mar-97	1.10	0.25
Apr-97	1.20	0.10
May-97	1.20	<.10
Jun-97	1.20	0.10
Jul-97	0.30	0.15
Aug-97	1.10	0.15
Sep-97	1.00	<.10
Oct-97	1.10	0.15
Nov-97	2.10	0.20
Dec-97	1.20	0.30

Date	Chlorine Residual	Turbidity (NTU)
Jan-98	1.30	0.20
Feb-98	1.10	0.25
Mar-98	1.20	0.30
Apr-98	1.30	0.50
May-98	1.30	0.80
Jun-98	1.00	0.25
Jul-98	1.00	0.20
Aug-98	1.00	0.30
Sep-98	1.00	0.45
Oct-98	1.00	0.35
Nov-98	1.20	0.15
Dec-98	1.20	0.15
Jan-99	1.00	0.20
Feb-99	1.00	0.45
Mar-99	1.00	0.20
Apr-99	1.00	0.20
May-99	1.20	0.50
Jun-99	1.30	0.30
Jul-99	1.65	0.20
Aug-99	1.10	0.20
Sep-99	0.95	0.40
Oct-99	1.00	0.40
Nov-99	1.10	0.30
Dec-99	1.30	0.10
Jan-00	1.30	0.60
Feb-00	1.00	0.30
Mar-00		
Apr-00		
May-00		
Jun-00		
Jul-00		
Aug-00		
Sep-00		
Oct-00		
Nov-00		
Dec-00		
AVG.	**1.3**	**0.50**

TABLE 7-19
VENTURA RIVER SAMPLING STATION R-1 [1]
VENTURA RIVER UPSTREAM OF SAN ANTONIO CREEK CONFLUENCE
WEEKLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Date	Temperature (°F)	pH (units)	Dissolved Oxygen (mg/l)
07/03/96	66	7.8	6.3
07/10/96	67	7.6	6.5
07/18/96	67	7.6	6.0
07/24/96	69	7.7	7.6
07/31/96	69	7.7	7.1
08/07/96	69	7.7	7.4
08/14/96	70	7.9	6.5
08/21/96	73	7.7	7.8
08/28/96	69	7.7	5.9
09/04/96	68	7.8	6.8
09/10/96	69	7.6	6.3
09/18/96	70	7.7	8.3
09/25/96	68	7.7	5.9
10/02/96	68	7.6	6.4
10/09/96	67	7.5	6.3
10/18/96	68	7.4	7.3
10/23/96	67	7.6	8.0
10/31/96	66	7.5	6.1
11/06/96	65	7.6	6.5
11/13/96	66	7.5	7.3
11/20/96	65	7.5	5.9
11/27/96	62	7.7	7.7
12/04/96	63	7.7	7.7
12/13/96	60	7.9	9.0
12/17/96	60	8.0	9.2
12/26/96	55	8.0	9.8
12/30/96	58	7.9	9.0
1996 Avg. (6 mo.)	66	7.7	7.2
01/08/97	53	7.9	10.0
01/14/97	54	7.9	9.7
01/24/97	60	7.1	9.0
01/30/97		7.8	10.2
02/05/97	57	7.3	9.5
02/12/97	56	7.8	10.2
02/19/97	62	7.9	9.4
02/27/97	57	8.1	10.1
03/05/97	54	8.0	11.4
03/12/97	61	8.4	12.1
03/19/97	65	8.2	11.7
03/26/97	61	8.0	11.9
04/02/97	56	8.2	13.1
04/10/97	60	7.8	7.6

TABLE 7-19
VENTURA RIVER SAMPLING STATION R-1 [1]
VENTURA RIVER UPSTREAM OF SAN ANTONIO CREEK CONFLUENCE
WEEKLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Date	Temperature (°F)	pH (units)	Dissolved Oxygen (mg/l)
04/17/97	65	NA	9.0
04/22/97	65	7.9	9.0
04/29/97	62	7.4	7.0
05/07/97	66	7.7	7.8
05/14/97	65	7.8	8.0
05/22/97	67	7.8	8.9
05/28/97	72	8.1	9.0
06/04/97	67	7.7	6.1
06/11/97	65	7.9	7.4
06/18/97	67	7.9	7.8
06/25/97	68	7.7	8.1
07/02/97	66	7.8	7.4
07/09/97	67	7.7	6.1
07/16/97	67	7.8	7.2
07/23/97	69	7.8	7.7
07/30/97	66	7.8	7.0
08/08/97	68	7.8	7.3
08/14/97	67	7.6	5.9
08/20/97	71	7.8	7.3
08/27/97	69	7.6	6.2
09/03/97	76	7.5	5.9
09/10/97	76	7.4	5.6
09/17/97	67	7.6	5.4
09/24/97	68	7.5	6.7
10/01/97	68	7.5	3.7
10/08/97	66	7.5	6.0
10/15/97	67	7.3	5.3
10/22/97	63	7.4	6.2
10/29/97	68	7.5	5.4
11/05/97	66	7.6	7.0
11/12/97	65	7.5	6.7
11/19/97	67	7.5	5.6
11/25/97	64	7.6	5.8
12/02/97	65	7.5	6.4
12/10/97	61	7.6	7.3
12/18/97	60	7.7	7.3
12/23/97	56	7.6	8.0
12/30/97	59	7.6	8.5
1997 Average	64	7.7	7.9
01/07/98	60	7.6	9.2
01/15/98	58	8.0	8.8
01/21/98	60	7.9	11.7
01/28/98	59	7.7	10.0
02/06/98	Samples not collected; river inaccessible due to heavy rain.		

TABLE 7-19
VENTURA RIVER SAMPLING STATION R-1 [1]
VENTURA RIVER UPSTREAM OF SAN ANTONIO CREEK CONFLUENCE
WEEKLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Date	Temperature (°F)	pH (units)	Dissolved Oxygen (mg/l)
02/12/98	55	8.1	10.0
02/19/98	58	8.2	10.6
02/27/98	64	8.2	9.7
03/04/98	66	8.2	9.9
03/10/98	57	8.2	10.2
03/18/98	63	8.4	11.0
03/24/98	61	8.3	11.0
03/31/98	57	8.3	10.2
04/07/98	54	8.3	10.9
04/15/98	58	8.4	10.4
04/21/98	61	8.3	10.2
04/30/98	59	8.2	9.9
05/08/98	60	8.4	9.9
05/15/98	60	8.2	10.6
05/20/98	65	8.5	12.1
05/27/98	60	8.3	11.3
06/03/98	62	8.3	10.1
06/10/98	63	8.3	10.2
06/17/98	64	8.3	11.0
06/24/98	65	8.3	10.2
07/02/98	66	8.3	11.6
07/08/98	68	8.2	11.0
07/17/98	70	8.2	8.9
07/22/98	69	8.2	10.1
07/29/98	68	8.1	9.9
08/05/98	68	8.1	9.5
08/12/98	70	8.0	9.5
08/19/98	69	8.2	10.6
08/26/98	69	8.1	9.5
09/03/98	69	7.7	9.4
09/09/98	68	7.9	8.0
09/18/98	66	7.8	9.5
09/23/98	67	8.1	10.1
10/01/98	65	8.0	9.8
10/07/98	64	7.9	9.5
10/14/98	65	8.0	9.5
10/21/98	66	8.1	10.8
10/28/98	66	8.0	9.4
11/05/98	64	8.0	10.4
11/12/98	61	8.0	9.9
11/17/98	64	8.0	10.3
11/25/98	62	8.0	10.1
12/02/98	61	7.9	9.9
12/09/98	59	8.0	9.6
12/16/98	60	8.0	10.7
12/23/98	55	8.0	10.1

TABLE 7-19
VENTURA RIVER SAMPLING STATION R-1 [1]
VENTURA RIVER UPSTREAM OF SAN ANTONIO CREEK CONFLUENCE
WEEKLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Date	Temperature (°F)	pH (units)	Dissolved Oxygen (mg/l)
12/30/98	58	8.0	10.0
1998 Average	63	8.1	10.1
01/06/99	59	8.1	
01/14/99	60	8.0	
01/19/99	NA	8.0	
01/28/99	61	8.1	
02/03/99	58	8.0	
02/11/99	57	7.9	
02/17/99	60	7.9	
02/25/99	61	8.0	
03/03/99	61	8.0	
03/11/99	60	7.7	
03/19/99	60	7.8	
03/26/99	65	8.0	
04/01/99	57	7.6	
04/08/99	60	7.5	
04/14/99	62	8.1	
04/21/99	66	7.0	
04/28/99	63	8.0	
05/07/99	63	7.9	
05/13/99	62	7.9	
05/19/99	64	7.9	
05/26/99	67	8.0	
06/02/99	63	7.8	
06/09/99	64	8.1	
06/16/99	65	7.8	
06/23/99	68	7.9	
07/01/99	70	7.7	
07/07/99	67	8.0	
07/15/99	[2]	[2]	
07/21/99	[2]	[2]	
07/27/99	70	7.7	
08/25/99	70	7.9	
09/27/99	66	7.7	
10/28/99	66	7.6	
11/17/99	66	7.7	
12/15/99	64	7.7	
1999 Average	63	7.8	

[1] New river sampling station which began operation in July 1996.

[2] LA-RWQCB indicated that the new monitoring requirements were effective 7/1/99. A revised schedule identified 8/1/99 as the effective date.

TABLE 7-20
VENTURA RIVER SAMPLING STATION R-1 [1]
VENTURA RIVER UPSTREAM OF SAN ANTONIO CREEK CONFLUENCE
MONTHLY AND QUARTERLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Month	Turbidity (NTU)	COD (mg/l)	BOD (mg/l)	TDS (mg/l)	Total Coliform MPN/100 mL	Fecal Coliform MPN/100 mL	Organic N (mg/l)	Ammonia NH_3	Nitrites NO_2	Nitrates NO_3	Total Nitrogen (mg/l)	Total Phosphorus (mg/l)	SO_4 (mg/l)	Oil & Grease (mg/l)	MBAS (mg/l)
Jul-96	0.6				50	13	1.7	<0.5	<0.3	<0.3	2.7	<0.1			
Aug-96	0.3		<2.0	604	220	11	2.2	<0.5	<0.2	1.0	2.9	<0.1	240	<1.0	<1.0
Sep-96	0.4				900	11	<0.5	<0.5	<0.3	1.1	1.1	0.2			
Oct-96	0.6				900	30	<0.5	<0.5	<0.2	1.4	1.4	<0.1			
Nov-96	0.2		<2.0	608	110	<2	<0.5	<0.5	<0.2	1.4	1.4	<0.1	230	<3.0	<1.0
Dec-96	0.4				110	50	<0.5	<0.5	<0.2	1.4	1.4	<0.1			
AVG	0.4		<2.0	606	382	20	1.0	<0.5	<0.3	1.1	1.8	0.1	235	<2.0	<1.0
Jan-97	2.1				500	500	<0.5	<0.05	<0.2	2.7	3.0	<0.05			
Feb-97	0.7		<2	570	110	7	<0.5	<0.5	<2	1.7	2.0	<0.1	190	<1	0.14
Mar-97	<0.2				80	4	<1	<0.05	<0.01	2.7	3.0	<0.05			
Apr-97	0.4				900	8	<1	<0.05	<0.01	2.0	2.0	0.07			
May-97	0.3		<2	670	900	13	<1	<0.05	<0.01	2.2	2.0	0.1	270	<3	<0.05
Jun-97	<0.2				170	6	<1	<0.05	<0.01	1.5	2.0	0.05			
Jul-97	0.2				900	8	1	<0.05	<0.01	1.4	2.0	<0.05			
Aug-97	<1.0		<2	630	300	4	<0.5	<0.05	<0.01	1.2	1.0	0.8	230	<1	<0.03
Sep-97	<0.2				1600	4	<1	<0.05	<0.01	1.3	1.0	0.07			
Oct-97	<0.2				170	2	<1	<0.05	<0.01	1.5	2.0	0.07			
Nov-97	<0.2		<2	590	500	4	<1	<0.05	<0.01	1.5	2.0	<0.05	240	<3	<0.05
Dec-97	0.5				300	50	<1	<0.05	<0.01	1.6	2.0	0.3			
AVG	0.5		<2	615	536	51	<1.0	<0.05	<0.2	1.8	2.0	0.15	233	<2	0.07

TABLE 7-20
VENTURA RIVER SAMPLING STATION R-1 [1]
VENTURA RIVER UPSTREAM OF SAN ANTONIO CREEK CONFLUENCE
MONTHLY AND QUARTERLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Month	Turbidity (NTU)	COD (mg/l)	BOD (mg/l)	TDS (mg/l)	Total Coliform MPN/100 mL	Fecal Coliform MPN/100 mL	Organic N (mg/l)	Ammonia NH_3	Nitrites NO_2	Nitrates NO_3	Total Nitrogen (mg/l)	Total Phosphorus (mg/l)	SO_4 (mg/l)	Oil & Grease (mg/l)	MBAS (mg/l)
Jan-98	<0.2				110	23	<1	<0.05	<0.01	2.3	2.0	0.05			
Feb-98	64		<4	480	2200	<20	<1	<0.05	<0.01	0.6	0.6	0.6	170	<3	<0.1
Mar-98	0.8				50	13	<1	<0.05	<0.01	2.1	2.0	0.05			
Apr-98	1.9				240	13	<1	<0.05	<0.01	0.41	<1	0.06			
May-98	0.8		<2	450	130	80	<0.5	<0.05	<0.01	0.21	<0.5	<0.05	210	<3	<0.1
Jun-98	0.4				70	30	0.6	<0.05	<0.01	0.36	1.0	<0.05			
Jul-98	0.5				300	17	0.7	<0.05	<0.01	0.71	1.4	<0.05			
Aug-98	0.5		<2	510	500	8	0.7	<0.05	<0.01	0.7	1.4	<0.05	220	<3	<0.1
Sep-98	0.8				900	23	<0.5	<0.05	<0.01	0.9	0.9	<0.05			
Oct-98	0.4				900	30	<0.5	<0.05	<0.01	0.77	0.8	0.09			
Nov-98	0.5		<2	580	170	22	0.5	<0.05	<0.01	1.1	1.6	0.15	250	<3	<0.1
Dec-98	0.4				350	9	<0.5	<0.05	<0.01	1.9	1.9	0.10			
AVG	5.9		<2	505	493	24	<1	<0.05	<0.01	1.0	1.4	0.07	213	<3	<0.1
Jan-99	0.6				≥1600	23	<0.5	<0.05	<0.01	1.2	1.2	0.06			
Feb-99	0.5		<2	580	9000	8	<0.5	<0.05	<0.01	1.1	1.1	0.07	260	<3	<0.1
Mar-99	0.6				300	130	0.6	<0.05	<0.01	1.8	2.4	<0.05			
Apr-99	0.5				300	130	<0.5	<0.05	<0.01	0.9	0.9	<0.05			
May-99	0.5		<2	590	170	50	<0.5	<0.05	<0.01	1.0	1.0	<0.05	230	<3	<0.1
Jun-99	0.3				280	30	<0.5	<0.05	<0.01	0.8	0.8	<0.05			
Jul-99	0.4				240	13	<0.5	<0.05	<0.01	0.8	0.8	0.16			
Aug-99	0.4		<2	560	1600	130	<0.5	<0.05	<0.01	0.7	0.7	0.07	240	<3	<0.1
Sep-99	0.2				≥1600	30	[2]	[2]	[2]	[2]	[2]	[2]			
Oct-99	0.2				300	7	[2]	[2]	[2]	[2]	[2]	[2]			
Nov-99	0.2		[3]	[3]	280	4	<0.5	<0.05	<0.05	0.9	0.9	<0.1	[3]	[3]	[3]
Dec-99	0.3				300	4	[2]	[2]	[2]	[2]	[2]	[2]			
AVG	0.4		<2	577	1331	47	<0.5	<0.05	<0.01	1.0	1.1	0.07	243	<3	<0.1

[1] This new station was created when the NPDES monitoring program changed effective July 1996.
[2] New quarterly monitoring effective 8/1/99.
[3] No longer required by new monitoring program effective 8/1/99.

TABLE 7-21
VENTURA RIVER SAMPLING STATION R-2 [1]
SAN ANTONIO CREEK UPSTREAM OF CONFLUENCE WITH VENTURA RIVER
WEEKLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Date	Temperature (°F)	pH (units)	Dissolved Oxygen (mg/l)
07/03/96	66	7.8	5.9
07/10/96	67	7.9	7.4
07/18/96	67	7.8	6.4
07/24/96	70	7.8	6.7
07/31/96	70	8.0	8.7
08/07/96	69	8.0	9.5
08/14/96	71	8.2	9.8
08/21/96	73	7.9	9.4
08/28/96	68	7.9	8.0
09/04/96	68	7.9	9.5
09/10/96	67	7.8	8.2
09/18/96	70	7.9	7.5
09/25/96	68	7.9	7.7
10/02/96	65	7.8	8.7
10/09/96	67	7.8	8.0
10/18/96	68	7.3	6.9
10/23/96	68	7.6	6.8
10/31/96	60	7.8	6.6
11/06/96	60	7.9	9.0
11/13/96	64	7.8	9.3
11/20/96	63	8.0	11
11/27/96	58	7.9	10
12/04/96	54	8.0	11
12/13/96	59	8.1	8.8
12/17/96	57	8.1	9.5
12/26/96	54	8.1	10
12/30/96	57	8.1	9.5
1996 Avg. (6 mo.)	65	7.9	8.5
01/08/97	51	8.1	11.4
01/14/97	52	8.0	10.8
01/24/97	52	7.3	10.8
01/30/97	NA	7.9	10.5
02/05/97	52	7.4	10.1
02/12/97	55	7.8	11.0
02/19/97	62	7.9	9.4
02/27/97	57	8.2	11.3
03/05/97	54	8.1	11.3
03/12/97	63	8.3	11.0
03/19/97	63	8.3	11.6
03/26/97	61	8.3	12.7
04/02/97	59	8.4	14.1
04/10/97	58	8.1	11.7
04/17/97	66	8.4	14.1
04/22/97	66	8.2	14.1
04/29/97	64	7.7	10.6

TABLE 7-21
VENTURA RIVER SAMPLING STATION R-2 [1]
SAN ANTONIO CREEK UPSTREAM OF CONFLUENCE WITH VENTURA RIVER
WEEKLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Date	Temperature (°F)	pH (units)	Dissolved Oxygen (mg/l)
05/07/97	67	8.2	11.6
05/14/97	66	8.1	9.6
05/22/97	67	8.0	10.8
05/28/97	72	8.3	11.6
06/04/97	67	8.0	9.9
06/11/97	65	8.1	8.9
06/18/97	68	8.1	9.5
06/25/97	68	8.1	11.3
07/02/97	66	8.0	8.8
07/09/97	67	7.8	6.9
07/16/97	67	8.0	8.6
07/23/97	69	7.9	8.6
07/30/97	65	7.8	8.6
08/08/97	69	7.9	7.6
08/14/97	66	7.7	7.1
08/20/97	71	7.9	8.5
08/27/97	69	7.7	8.7
09/03/97	69	7.6	6.9
09/10/97	69	7.5	6.3
09/17/97	66	7.5	2.9
09/24/97	68	7.5	6.1
10/01/97	67	7.4	4.7
10/08/97	64	7.6	6.4
10/15/97	65	7.9	6.3
10/22/97	66	7.3	5.9
10/29/97	70	7.7	12.6
11/05/97	67	7.5	5.5
11/12/97	64	7.5	7.1
11/19/97	61	7.8	7.6
11/25/97	59	8.0	7.8
12/02/97	58	8.0	8.7
12/10/97	54	7.9	9.7
12/18/97	56	8.1	8.7
12/23/97	53	8.1	10.2
12/30/97	57	8.1	10.8
1997 Average	63	7.9	9.4
01/07/98	53	8.1	10.6
01/15/98	57	8.1	9.5
01/21/98	54	8.1	10.2
01/28/98	53	8.1	11.6
02/06/98	Samples not collected; river inaccessible due to heavy rain.		
02/12/98	52	8.1	10.8
02/19/98	58	8.2	10.2
02/27/98	69	8.1	9.7
03/04/98	66	8.2	10.2
03/10/98	55	8.2	10.4
03/18/98	61	8.3	10.3

TABLE 7-21
VENTURA RIVER SAMPLING STATION R-2 [1]
SAN ANTONIO CREEK UPSTREAM OF CONFLUENCE WITH VENTURA RIVER
WEEKLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Date	Temperature (°F)	pH (units)	Dissolved Oxygen (mg/l)
03/24/98	59	8.2	12.1
03/31/98	57	8.2	9.9
04/07/98	52	8.2	11.0
04/15/98	55	8.2	11.0
04/21/98	60	8.1	11.3
04/30/98	59	8.1	10.6
05/08/98	59	8.3	10.0
05/15/98	58	8.3	10.0
05/20/98	63	8.2	10.1
05/27/98	58	NA	11.0
06/03/98	62	8.3	9.9
06/10/98	62	8.4	10.8
06/17/98	64	8.3	11.3
06/24/98	64	8.4	11.3
07/02/98	64	8.4	11.8
07/08/98	68	8.3	11.1
07/17/98	70	8.2	10.9
07/22/98	70	8.2	8.2
07/29/98	70	8.2	10.3
08/05/98	70	8.2	10.0
08/12/98	72	8.1	10.5
08/19/98	71	8.3	12.4
08/26/98	70	8.4	12.0
09/03/98	70	8.1	9.8
09/09/98	69	7.9	7.4
09/18/98	65	8.0	11.2
09/23/98	65	8.3	10.9
10/01/98	62	8.1	10.8
10/07/98	59	8.2	11.2
10/14/98	61	8.3	11.5
10/21/98	60	8.3	12.8
10/28/98	61	8.4	13.1
11/05/98	61	8.3	13.1
11/12/98	54	8.2	13.2
11/17/98	59	8.2	11.9
11/25/98	55	8.3	11.4
12/02/98	54	8.2	12.2
12/09/98	51	8.2	11.7
12/16/98	51	8.2	13.6
12/23/98	44	8.2	13.4
12/30/98	49	8.2	13.4
1998 Average	60	8.2	11.1

TABLE 7-21
VENTURA RIVER SAMPLING STATION R-2 [1]
SAN ANTONIO CREEK UPSTREAM OF CONFLUENCE WITH VENTURA RIVER
WEEKLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Date	Temperature (°F)	pH (units)	Dissolved Oxygen (mg/l)
01/06/99	50	8.3	
01/14/99	52	8.4	
01/19/99		8.2	
01/28/99	52	8.3	
02/03/99	49	8.2	
02/11/99	49	8.2	
02/17/99	55	8.2	
02/25/99	56	8.4	
03/03/99	57	8.3	
03/11/99	55	8.3	
03/19/99	57	8.1	
03/26/99	62	8.3	
04/01/99	52	7.7	
04/08/99	55	8.1	
04/14/99	59	8.0	
04/21/99	65	7.5	
04/28/99	60	8.5	
05/07/99	62	8.3	
05/13/99	62	8.0	
05/19/99	63	8.2	
05/26/99	65	8.3	
06/02/99	62	8.3	
06/09/99	62	8.3	
06/16/99	65	8.3	
06/23/99	68	8.3	
07/01/99	71	8.3	
07/07/99	69	8.3	
07/15/99	[2]	[2]	
07/21/99	[2]	[2]	
07/27/99	71	8.3	
08/25/99	70	8.1	
09/27/99	63	8.0	
10/28/99	61	7.7	
11/17/99	62	8.4	
12/15/99	49	8.3	
1999 Average	60	8.2	

[1] New river sampling station which began operation in July 1996.

[2] LA - RWQCB indicated that the new monitoring requirements were effective 7/1/99. A revised schedule identified 8/1/99 as the effective date.

TABLE 7-22
VENTURA RIVER SAMPLING STATION R-2
SAN ANTONIO CREEK UPSTREAM OF CONFLUENCE WITH VENTURA RIVER
MONTHLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Month	Turbidity (NTU)	COD (mg/l)	BOD (mg/l)	TDS (mg/l)	Total Coliform MPN/100 mL	Fecal Coliform MPN/100 mL	Organic N (mg/l)	Ammonia NH_3	Nitrites NO_2	Nitrates NO_3	Total Nitrogen (mg/l)	Total Phosphorus (mg/l)	SO_4 (mg/l)	Oil & Grease (mg/l)	MBAS (mg/l)
Jul-96	0.4				900	110	1.7	<0.5	<0.3	<0.3	2.5	<0.1			
Aug-96	1.0		<2.0	776	300	130	2.8	<0.5	<0.2	0.7	3.5	0.1	300	1.2	<0.1
Sep-96	0.9				900	110	<0.5	<0.5	<0.3	0.8	0.8	<0.1			
Oct-96	2.6				1600	1600	<0.5	<0.5	<0.2	1.1	1.1	<0.2			
Nov-96	0.6		<2.0	864	900	30	<0.5	<0.5	<0.2	1.1	1.1	<0.1	310	<3.0	<0.1
Dec-96	0.8				300	80	<0.5	<0.5	<0.2	1.9	1.9	<0.1			
AVG	1.1		<2.0	820	817	343	1.0	<0.5	<0.2	1.0	1.8	0.1	305	<2.0	<0.1
Jan-97	7.8				1600	130	<0.5	<0.05	<0.2	1.5	2	0.13			
Feb-97	1.0		<2	850	110	<2	<0.5	<0.5	<2	3.2	3	<0.1	290	<1	0.13
Mar-97	0.2				50	8	<1	<0.05	<0.01	4.0	4	<0.05			
Apr-97	0.2				300	17	<1	<0.05	<0.01	3.1	3	0.13			
May-97	0.4		<2	780	350	110	<1	<0.05	<0.01	2.6	3	0.1	320	<3	<0.05
Jun-97	0.3				1600	26	2	<0.05	<0.01	1.7	4	0.08			
Jul-97	0.2				900	170	1	<0.05	<0.01	1.5	3	0.05			
Aug-97	<1.0		<2	800	1600	27	0.8	<0.05	0.01	1.2	2	0.12	290	<1	<0.03
Sep-97	0.2				≥1600	170	<1	<0.05	<0.01	2.6	3	0.1			
Oct-97	0.3				900	17	<1	<0.05	<0.01	2.6	3	0.08			
Nov-97	<0.2		<2	850	900	80	<1	<0.05	<0.01	0.5	<1	0.1	330	<3	<0.05
Dec-97	5.0				900	130	<1	<0.05	<0.01	1.6	2	0.16			
AVG	1.4		<2	820	901	74	<1	NA	<0.2	2.2	3	0.10	308	<2	0.07
Jan-98	0.3				1100	22	<1	<0.05	<0.01	1.9	2.0	0.08			
Feb-98	430		<4	660	11000	80	<1	<0.05	<0.01	2.4	2.4	3.0	260	<3	<0.1
Mar-98	14				2200	70	<1	<0.05	<0.01	4.8	5.0	0.15			
Apr-98	28				500	500	<1	<0.05	<0.01	3.6	4.0	0.23			
May-98	6.2		<2	630	900	130	0.7	<0.05	<0.01	3.1	3.8	0.07	250	<3	<0.1
Jun-98	0.5				220	17	0.7	<0.05	<0.01	3.9	4.6	<0.05			

TABLE 7-22
VENTURA RIVER SAMPLING STATION R-2
SAN ANTONIO CREEK UPSTREAM OF CONFLUENCE WITH VENTURA RIVER
MONTHLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Month	Turbidity (NTU)	COD (mg/l)	BOD (mg/l)	TDS (mg/l)	Total Coliform MPN/100 mL	Fecal Coliform MPN/100 mL	Organic N (mg/l)	Ammonia NH_3	Nitrites NO_2	Nitrates NO_3	Total Nitrogen (mg/l)	Total Phosphorus (mg/l)	SO_4 (mg/l)	Oil & Grease (mg/l)	MBAS (mg/l)
Jul-98	0.5				23	13	<0.5	<0.05	<0.01	5.3	5.3	<0.05			
Aug-98	0.9		<2	750	130	80	0.8	<0.05	<0.01	4.5	5.3	0.1	280	<3	<0.1
Sep-98	0.8				170	30	<0.5	<0.05	<0.01	3.9	3.9	0.07			
Oct-98	1.7				1600	23	<0.5	<0.05	<0.01	3.8	3.8	0.1			
Nov-98	0.7		<2	820	280	30	<0.5	<0.05	<0.01	4.0	4.0	<0.05	320	<3	<0.1
Dec-98	0.5				110	23	<0.5	<0.05	<0.01	1.6	1.6	<0.05			
AVG	40		<2	715	1519	85	<1	<0.05	<0.01	3.6	3.8	0.33	278	<3	<0.1
Jan-99	0.9				900	50	<0.5	<0.05	<0.01	2.4	2.4	0.14			
Feb-99	0.8		<2	790	350	50	0.6	<0.05	<0.01	1.9	2.5	<0.05	330	<3	<0.1
Mar-99	1.1				900	170	0.6	<0.05	<0.01	1.5	2.1	0.05			
Apr-99	0.4				900	170	0.6	<0.05	<0.01	1.1	1.7	<0.05			
May-99	2.7		<2	820	900	70	<0.5	<0.05	<0.01	1.8	1.8	0.06	290	<3	<0.1
Jun-99	0.9				220	30	0.7	<0.05	<0.01	0.8	1.5	<0.05			
Jul-99	0.5				1700	50	<0.5	<0.05	<0.01	0.1	0.1	<0.05			
Aug-99	1.1		<2	780	16000	50	0.5	<0.05	<0.01	0.07	0.6	0.07	310	<3	<0.1
Sep-99	0.8				1400	140	[1]	[1]	[1]	[1]	[1]	[1]			
Oct-99	0.4				900	300	[1]	[1]	[1]	[1]	[1]	[1]			
Nov-99	0.3		[2]	[2]	500	240	<0.5	<0.05	<0.05	<0.1	<0.5	<0.1	[2]	[2]	[2]
Dec-99	0.2				300	80	[1]	[1]	[1]	[1]	[1]	[1]			
AVG	0.8		<2	797	2081	117	0.6	<0.05	<0.01	1.1	1.5	0.07	310	<3	<0.1

[1] New quarterly monitoring effective 8/1/99.

[2] No longer required by new monitoring program effective 8/1/99.

[3] This new station was created when the NPDES monitoring program was changed effective July 1996.

TABLE 7-23
VENTURA RIVER SAMPLING STATION R-3 [1]
VENTURA RIVER UPSTREAM OF OJAI VALLEY SANITARY DISTRICT WWTP
WEEKLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Date	Total Coliform[2,3] (MPN/100 ml)	Temperature (°F)	pH (units)	Dissolved Oxygen (mg/l)
01/05/95	>1,600	50	8.20	10.7
01/18/95	500	52	8.37	13.2
01/27/95	>1,600	53	8.46	11.3
02/01/95	300	58	8.40	9.8
02/08/95	>1,600	58	8.62	10.4
02/15/95	>1,600	58	8.52	10.8
02/22/95	170	63	8.71	11.8
03/02/95	500	58	8.55	11.0
03/08/95	1600	59	8.52	9.7
03/15/95	900	58	8.37	9.3
03/22/95	900	57	8.58	10.0
03/29/95	900	60	8.46	9.7
04/05/95	170	58	8.31	11.2
04/12/95	110	58	8.49	10.1
04/20/95	240	58	8.46	10.6
04/26/95	900	60	8.30	12.1
05/03/95	220	60	8.48	10.0
05/10/95	130	63	8.14	11.4
05/17/95	>1,600	60	8.46	11.6
05/24/95	130	62	8.64	10.8
06/01/95	>1,600	64	8.14	9.7
06/07/95	>1,600	65	8.42	11.3
06/14/95	300	64	8.27	9.6
06/21/95	300	65	8.23	10
06/28/95	>1,600	71	8.67	11.9
07/06/95	130	67	8.26	9.4
07/12/95	>1,600	67	8.53	10.6
07/18/95	>1,600	68	8.33	11.9
07/26/95	140	69	8.40	10.2
08/02/95	900	69	8.41	9.7
08/09/95	>1,600	69	8.44	11.5
08/16/95	>1,600	67	8.25	9.6
08/23/95	>1,600	75	8.48	13.5
08/30/95	1,600	69	8.17	9.6
09/06/95	>1,600	64	8.23	12.5
09/13/95	80	66	8.18	9.5
09/20/95	130	68	7.97	8.3
09/27/95	900	65	7.86	9.0
10/04/95	140	63	8.07	10.0
10/11/95	110	64	8.18	9.5
10/18/95	>1,600	63	8.00	10.0
10/25/95	30	67	8.23	11.2
11/01/95	170	64	8.25	10.4

TABLE 7-23
VENTURA RIVER SAMPLING STATION R-3 [1]
VENTURA RIVER UPSTREAM OF OJAI VALLEY SANITARY DISTRICT WWTP
WEEKLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Date	Total Coliform[2,3] (MPN/100 ml)	Temperature (°F)	pH (units)	Dissolved Oxygen (mg/l)
11/08/95	110	60	8.15	11.5
11/15/95	300	63	8.51	12.1
11/22/95	30	56	8.17	11.4
11/29/95	70	54	8.38	12.1
12/06/95	500	56	8.31	11.6
12/14/95	240	56	8.25	10.3
12/20/95	80	55	8.22	11.2
12/27/95	50	51	8.23	11.0
1995 Average	745	62	8.3	10.7
01/03/96	23	54	8.2	11.9
01/10/96	30	53	8.3	11.9
01/18/96	30	52	8.2	11.6
01/24/96	60	49	8.3	12.6
02/01/96	> 1600	58	8.2	9.8
02/07/96	110	57	8.3	10.6
02/14/96	130	56	8.3	11.5
02/23/96	300	52	8.3	10.4
02/28/96	170	52	8.3	10.5
03/06/96	130	56	8.3	11.1
03/13/96	> 1600	56	8.3	10.1
03/19/96	70	63	8.5	11.1
03/27/96	30	64	8.6	12.4
04/02/96	130	62	8.6	12.0
04/10/96	30	59	8.4	11.2
04/17/96	220	61	8.3	11.2
04/23/96	130	63	8.3	11.3
05/01/96	23	67	8.4	11.5
05/08/96	300	64	8.2	10.8
05/14/96	80	66	8.1	9.3
05/22/96	70	71	8.3	11.8
05/29/96	80	65	8.2	10.3
06/04/96	110	68	8.3	10.4
06/12/96	130	67	8.0	9.1
06/19/96	170	68	8.3	10.1
06/06/96	170	62	8.28	10.6
07/03/96		72	8.3	9.4
07/10/96		66	8.1	9.9
07/18/96		67	8.2	11.0
07/24/96		70	8.3	10.0
07/31/96		70	8.3	10.0
08/07/96		69	8.2	10.0

TABLE 7-23
VENTURA RIVER SAMPLING STATION R-3 [1]
VENTURA RIVER UPSTREAM OF OJAI VALLEY SANITARY DISTRICT WWTP
WEEKLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Date	Total Coliform[2,3] (MPN/100 ml)	Temperature (°F)	pH (units)	Dissolved Oxygen (mg/l)
08/14/96		76	7.6	5.8
08/21/96		72	8.2	9.1
08/28/96		67	8.2	8.2
09/04/96		68	8.1	9.4
09/10/96		68	8.0	8.6
09/18/96		67	8.3	12.0
09/25/96		68	8.1	8.3
10/02/96		65	7.8	7.0
10/09/96		68	7.7	2.5
10/18/96		62	7.7	9.3
10/23/96		60	7.5	7.3
10/31/96		62	8.0	9.2
11/06/96		55	8.2	13.0
11/13/96		60	8.3	16.0
11/20/96		62	8.2	12.0
11/27/96		54	8.2	13.0
12/04/96		48	8.1	14.0
12/13/96		59	8.2	9.5
12/17/96		56	8.2	10.0
12/26/96		55	8.2	10.0
12/30/96		58	8.2	9.9
1996 Avg. (6 mo.)	228	62	8.2	10.4
01/08/97		52	8.3	11.6
01/14/97		52	8.2	10.9
01/24/97		58	8.3	10.0
01/30/97		53	7.9	10.4
02/05/97		54	7.9	10.5
02/12/97		56	7.9	10.5
02/19/97		62	8.2	10.6
02/27/97		57	8.3	11.3
03/05/97		54	8.3	12.2
03/12/97		64	8.6	12.6
03/19/97		64	8.5	13.0
03/26/97		62	8.3	12.1
04/02/97		58	8.4	11.9
04/10/97		67	8.1	10.3
04/17/97		65	8.3	10.8
04/22/97		65	8.2	10.8
04/29/97		63	7.9	10.5
05/07/97		66	8.2	10.6
05/14/97		66	8.0	8.6
05/22/97		67	8.2	10.2
05/28/97		70	8.2	10.4

TABLE 7-23
VENTURA RIVER SAMPLING STATION R-3 [1]
VENTURA RIVER UPSTREAM OF OJAI VALLEY SANITARY DISTRICT WWTP
WEEKLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Date	Total Coliform[2,3] (MPN/100 ml)	Temperature (°F)	pH (units)	Dissolved Oxygen (mg/l)
06/04/97		68	8.1	9.2
06/11/97		65	8.1	8.8
06/18/97		67	8.2	9.6
06/25/97		67	8.2	9.6
07/02/97		65	8.1	9.6
07/09/97		67	8.0	7.8
07/16/97		67	8.2	9.6
07/23/97		69	8.2	9.3
07/30/97		65	7.8	9.4
08/08/97		70	8.1	8.3
08/14/97		67	8.0	8.7
08/20/97		74	8.2	9.1
08/27/97		69	8.0	8.9
09/03/97		71	8.1	9.0
09/10/97		71	7.6	6.9
09/17/97		62	7.9	8.2
09/24/97		68	8.1	8.6
10/01/97		73	7.9	6.5
10/08/97		66	7.7	7.6
10/15/97		56	7.7	8.4
10/22/97		65	7.5	5.5
10/29/97		62	8.0	9.4
11/05/97		65	7.6	4.0
11/12/97		62	7.6	4.8
11/19/97		59	8.0	12.2
11/25/97		57	7.6	4.9
12/02/97		53	8.2	11.9
12/10/97		50	8.0	10.6
12/18/97		57	8.2	9.8
12/23/97		49	8.2	11.3
12/30/97		55	8.3	12.8
1997 Average	687	63	8.1	9.6
01/07/98		50	8.1	11.8
01/15/98		57	8.1	9.7
01/21/98		54	8.2	11.9
01/28/98		52	8.2	12.3
02/06/98	Samples not collected; river inaccessible due to heavy rain.			
02/12/98		54	8.2	10.3
02/19/98		55	8.3	10.8
02/27/98		61	8.2	9.8
03/04/98		66	8.3	9.9
03/10/98		56	8.3	10.4
03/18/98		62	8.4	8.7
03/24/98		61	8.4	11.5

TABLE 7-23
VENTURA RIVER SAMPLING STATION R-3 [1]
VENTURA RIVER UPSTREAM OF OJAI VALLEY SANITARY DISTRICT WWTP
WEEKLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Date	Total Coliform[2,3] (MPN/100 ml)	Temperature (°F)	pH (units)	Dissolved Oxygen (mg/l)
03/31/98		54	8.3	10.1
04/07/98		54	8.3	11.7
04/15/98		56	8.3	10.8
04/21/98		61	8.2	10.6
04/30/98		60	8.3	10.1
05/08/98		61	8.4	10.3
05/15/98		58	8.4	10.7
05/20/98		63	8.4	10.8
05/27/98		59	8.4	11.0
06/03/98		62	8.4	10.4
06/10/98		63	8.4	10.8
06/17/98		64	8.3	9.8
06/24/98		65	8.4	10.6
07/02/98		65	8.3	9.9
07/08/98		68	8.3	10.8
07/17/98		69	8.4	9.3
07/22/98		69	8.3	8.3
07/29/98		70	8.3	10.0
08/05/98		70	8.3	9.9
08/12/98		71	8.2	9.8
08/19/98		69	8.4	10.8
08/26/98		70	8.4	9.8
09/03/98		71	8.2	9.3
09/09/98		69	8.1	8.6
09/18/98		64	8.1	10.1
09/23/98		65	8.3	10.5
10/01/98		63	8.2	10.1
10/07/98		58	8.2	11.1
10/14/98		61	8.3	11.2
10/21/98		59	8.3	11.2
10/28/98		61	8.3	11.0
11/05/98		61	8.3	11.0
11/12/98		54	8.2	11.5
11/17/98		61	8.3	11.0
11/25/98		55	8.3	11.6
12/02/98		54	8.3	11.4
12/09/98		51	8.3	12.0
12/16/98		52	8.2	11.9
12/23/98		44	8.3	13.0
12/30/98		49	8.3	12.4
1998 Average		60	8.3	10.6
01/06/99		51	8.4	
01/14/99		51	8.3	
01/19/99		58	8.2	

TABLE 7-23
VENTURA RIVER SAMPLING STATION R-3 [1]
VENTURA RIVER UPSTREAM OF OJAI VALLEY SANITARY DISTRICT WWTP
WEEKLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Date	Total Coliform[2,3] (MPN/100 ml)	Temperature (°F)	pH (units)	Dissolved Oxygen (mg/l)
01/28/99		52	8.4	
02/03/99		50	8.2	
02/11/99		51	8.2	
02/17/99		57	8.3	
02/25/99		57	8.4	
03/03/99		56	8.3	
03/11/99		54	8.3	
03/19/99		57	8.2	
03/26/99		63	8.4	
04/01/99		54	7.9	
04/08/99		56	8.2	
04/14/99		60	7.9	
04/21/99		65	7.7	
04/28/99		60	8.4	
05/07/99		62	8.3	
05/13/99		62	8.1	
05/19/99		63	8.3	
05/26/99		65	8.3	
06/02/99		62	8.3	
06/09/99		62	8.3	
06/16/99		64	8.3	
06/23/99		67	8.3	
07/01/99		70	8.4	
07/07/99		70	8.3	
07/15/99		[4]	[4]	
07/21/99		[4]	[4]	
07/27/99		70	8.4	
08/25/99		69	8.2	
09/27/99		65	8.2	
10/28/99		62	7.7	
11/17/99		63	8.2	
12/15/99		47	8.0	
1999 Average		60	8.2	

[1] Includes data for station known as R-1 prior to July 1996.

[2] Shaded area indicates data samplings changed from weekly to monthly (see Table 5-24).

[3] Averages for Total Coliform do not account for numbers greater than 1600.

[4] LA - RWQCB indicated that the new monitoring requirements were effective 7/1/99. A revised schedule identified 8/1/99 as the effective date.

TABLE 7-24
VENTURA RIVER SAMPLING STATION R-3 [1]
VENTURA RIVER UPSTREAM OF OJAI VALLEY SANITARY DISTRICT WWTP
MONTHLY AND QUARTERLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Month	Turbidity (NTU)	COD (mg/l)	BOD (mg/l)	TDS (mg/l)	Total Coliform MPN/100 mL	Fecal Coliform MPN/100 mL	Organic N (mg/l)	Ammonia NH_3	Nitrites NO_2	Nitrates NO_3	Total Nitrogen (mg/l)	Total Phosphorus (mg/l)	SO_4 (mg/l)	Oil & Grease (mg/l)	MBAS (mg/l)
Jan-95	32.0				see Table 5-23	NA	1.1	<0.5	<0.2	0.9	NA	<0.2	NA	NA	NA
Feb-95	4.4	<20	<2.5	540	see Table 5-23	NA	<0.2	<0.5	<2.0	<2.0	NA	<2.0	NA	NA	NA
Mar-95	12.5				see Table 5-23	NA	<0.2	0.7	<0.5	0.9	NA	<0.5	NA	NA	NA
Apr-95	4.0				see Table 5-23	NA	<0.2	<0.5	<0.8	1.8	NA	<0.8	NA	NA	NA
May-95	1.5	<20	<2.5	580	see Table 5-23	NA	0.2	<0.5	<3.0	3.0	NA	<3.0	NA	NA	NA
Jun-95	1.8				see Table 5-23	NA	0.3	<0.5	<0.8	1.9	NA	<0.8	NA	NA	NA
Jul-95	1.0				see Table 5-23	NA	<0.2	<0.4	<0.8	1.7	NA	<0.8	NA	NA	NA
Aug-95	1.0	<20	<2.5	656	see Table 5-23	NA	0.2	<0.4	<1.0	2.0	NA	<1.5	NA	NA	NA
Sep-95	1.0				see Table 5-23	NA	<0.5	<0.4	<0.5	0.9	NA	<0.5	NA	NA	NA
Oct-95	1.5				see Table 5-23	NA	0.6	<0.4	<0.3	0.7	NA	<1.0	NA	NA	NA
Nov-95	0.7	<20	<2.5	676	see Table 5-23	NA	<0.1	<0.5	<0.3	0.9	NA	<0.3	NA	NA	NA
Dec-95	0.9				see Table 5-23	NA	<0.1	<0.5	<0.3	0.7	NA	<0.3	NA	NA	NA
AVG	5.2	<20	<2.5	613	NA	NA	0.3	<0.5	<0.9	1.5	NA	<1.0	NA	NA	NA
Jan-96	1.3						0.6	<0.5	<0.5	0.8	NS	<0.5	NA	NA	NA
Feb-96	2.7	<20	<3.0	648	see Table 5-23	NA	<0.5	<0.5	<0.3	6.7	NS	<1.0	NA	NA	NA
Mar-96	1.2				see Table 5-23	NA	<0.5	<0.5	<0.3	1.3	NS	<0.3	NA	NA	NA
Apr-96	0.7				see Table 5-23	NA	0.6	<0.5	<0.3	1.0	NS	<0.3	NA	NA	NA
May-96	0.7	<20	<3.0	628	see Table 5-23	NA	<0.5	<0.4	<0.3	0.7	NS	<0.3	NA	NA	NA
Jun-96	0.8				see Table 5-23	NA	<0.5	<0.5	<0.3	3.0	NS	<1.0	NA	NA	NA
Jul-96	0.4				300	130	2.8	<0.5	<0.3	<0.3	3.3	<0.1			
Aug-96	0.6		<2.0	752	240	80	2.8	<0.5	<0.3	<0.2	2.8	<0.1	330	1.3	<0.1
Sep-96	0.6				900	8	0.5	<0.5	<0.3	<0.2	0.5	<0.1			
Oct-96	2.6				1600	1600	<0.5	<0.5	<0.2	1.2	1.2	<0.1			
Nov-96	0.6		<2.0	804	1600	23	<0.5	<0.5	<0.2	1.2	1.2	<0.1	310	<3.0	<0.1
Dec-96	0.8				500	30	<0.5	<0.5	<0.2	1.5	1.5	<0.1			
AVG	1.1	<20	<3.0	708	857	312	0.9	<0.5	0.3	1.5	1.8	0.2	320	<2.0	<0.1

TABLE 7-24
VENTURA RIVER SAMPLING STATION R-3 [1]
VENTURA RIVER UPSTREAM OF OJAI VALLEY SANITARY DISTRICT WWTP
MONTHLY AND QUARTERLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Month	Turbidity (NTU)	COD (mg/l)	BOD (mg/l)	TDS (mg/l)	Total Coliform MPN/100 mL	Fecal Coliform MPN/100 mL	Organic N (mg/l)	Ammonia NH_3	Nitrites NO_2	Nitrates NO_3	Total Nitrogen (mg/l)	Total Phosphorus (mg/l)	SO_4 (mg/l)	Oil & Grease (mg/l)	MBAS (mg/l)
Jan-97	10.0				500	500	2.8	<0.05	<0.2	2.0	5.0	0.08			
Feb-97	1.7		<2	660	50	<2	<0.5	<0.5	<2	1.8	2.0	<0.1	230	<1	0.13
Mar-97	<0.2				11	4	<1	<0.05	<0.01	2.3	2.0	<0.05			
Apr-97	0.2				300	4	<1	<0.05	<0.01	1.7	2.0	0.36			
May-97	0.2		<2	690	240	80	<1	<0.05	<0.01	1.5	2.0	<0.05	280	<3	<0.05
Jun-97	0.2				220	27	1	<0.05	0.01	0.9	2.0	0.04			
Jul-97	0.3				240	240	1	<0.05	0.01	0.9	2.0	0.05			
Aug-97	<1.0		<2	740	500	4	0.6	<0.05	0.01	0.5	1.0	0.06	290	<1	<0.03
Sep-97	0.3				900	17	<1	<0.05	<0.01	0.2	<1	0.05			
Oct-97	0.3				900	2	<1	<0.05	<0.01	<0.1	<1	0.08			
Nov-97	0.5		<2	960	300	7	<1	<0.05	<0.01	<0.1	<1	<0.05	450	<3	<0.05
Dec-97	0.7				1600	30	<1	<0.05	<0.01	1.2	1.0	0.08			
AVG	1.4		<2	763	480	76	<1	<0.05	<0.2	1.1	2.0	0.1	313	<2	0.07
Jan-98	0				500	50	<1	<0.05	<0.01	1.7	2.0	0.08			
Feb-98	160		<4	470	7000	40	<1	<0.05	<0.01	0.9	0.9	1.2	190	<3	<0.1
Mar-98	5.2				1700	800	<1	<0.05	<0.01	1.4	1.0	0.06			
Apr-98	19				500	30	<1	<0.05	<0.01	1.1	1.0	0.1			
May-98	3.0		<2	480	500	130	<0.5	<0.05	<0.01	0.9	0.9	0.08	190	<3	<0.1
Jun-98	0.5				50	23	0.7	<0.05	<0.01	1.3	2.0	0.06			
Jul-98	0.4				140	60	0.9	<0.05	<0.01	1.9	1.9	0.05			
Aug-98	0.7		<2	600	500	220	0.6	<0.05	<0.01	1.5	2.1	<0.05	250	<3	<0.1
Sep-98	1.8				140	50	0.5	<0.05	<0.01	1.3	1.8	<0.05			
Oct-98	0.7				500	30	<0.5	<0.05	<0.01	1.2	1.2	0.08			
Nov-98	0.8		<2	650	170	30	<0.5	<0.05	<0.01	1.5	1.5	<0.05	270	<3	<0.1
Dec-98	0.6				80	50	<0.5	<0.05	<0.01	1.2	1.2	<0.05			
AVG	16.1		<2	550	982	126	<1	<0.05	<0.01	1.3	1.5	0.16	225	<3	<0.1

TABLE 7-24
VENTURA RIVER SAMPLING STATION R-3 [1]
VENTURA RIVER UPSTREAM OF OJAI VALLEY SANITARY DISTRICT WWTP
MONTHLY AND QUARTERLY SAMPLING BY OJAI VALLEY SANITARY DISTRICT

Month	Turbidity (NTU)	COD (mg/l)	BOD (mg/l)	TDS (mg/l)	Total Coliform MPN/100 mL	Fecal Coliform MPN/100 mL	Organic N (mg/l)	Ammonia NH_3	Nitrites NO_2	Nitrates NO_3	Total Nitrogen (mg/l)	Total Phosphorus (mg/l)	SO_4 (mg/l)	Oil & Grease (mg/l)	MBAS (mg/l)
Jan-99	1.0				900	30	<0.5	<0.05	<0.01	1.5	1.5	0.09			
Feb-99	0.8		<2	620	140	8	<0.6	<0.05	<0.01	1.0	1.0	<0.05	290	<3	<0.1
Mar-99	1.1				900	300	<0.5	<0.05	<0.01	1.6	1.6	<0.05			
Apr-99	0.7				900	300	<0.5	<0.05	<0.01	0.7	0.7	<0.05			
May-99	0.8		<2	650	500	80	<0.5	<0.05	<0.01	0.8	0.8	<0.05	240	<3	<0.1
Jun-99	0.4				170	17	0.6	<0.05	<0.01	0.6	1.2	0.06			
Jul-99	0.6				500	23	2.1	0.9	<0.01	3	6.0	<0.05			
Aug-99	1.0		<2	620	900	9	<0.5	<0.05	<0.01	0.3	0.3	<0.05	270	<3	<0.1
Sep-99	0.7				≥1600	130	[2]	[2]	[2]	[2]	[2]	[2]			
Oct-99	0.7				2400	4	[2]	[2]	[2]	[2]	[2]	[2]			
Nov-99	1.5		[3]	[3]	900	70	0.6	<0.05	<0.05	<0.5	0.6	<0.1	[3]	[3]	[3]
Dec-99	0.3				1600	11	[2]	[2]	[2]	[2]	[2]	[2]			
AVG	0.8		<2	630	951	82	0.7	<0.05	<0.01	1.1	1.5	0.1	267	<3	<0.1

[1] Station was known as Station R-1 prior to July 1996. The NPDES monitoring program and station location changed effective July 1996.
[2] New quarterly monitoring effective 8/1/99.
[3] No longer required by new monitoring program effective 8/1/99.

Table 7-25
Total THM Sampling Results (µg/L)
City of Ventura

Date	210 Zone*											
	5 Porter and Valmore		6 Seaward and Pierpont		7 Ventura and Kellogg		9 Fire and Thompson		13 Olive and Main		22 Harbor Boulevard	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
04/10/00	58	73	63	74	62	68	64	70	66	71	74	68
01/24/00	58	75	54	73	48	73	48	68	63	70	69	68
10/11/99	76	76	77	69	70	71	70	70	63	65	101	64
07/19/99	100.5	66	101	60	92	65	99	61	92	61	26	53
04/19/99	64	56	58	50	83	54	54	47	63	51	74	61
01/25/99	65	61	40	54	39	50	57	48	43	50	55	60
10/12/98	33	60	40	63	45	57	32	51	47	59	55	69
07/13/98	61	70	61	72	50	60	45	60	51	66	60	77
04/20/98	85	70	76	71	65	61	56	65	60	69	70	**83**
01/12/98	61	65	75	69	67	58	72	65	77	66	90	**83**
10/13/97	74	65	74	66	56	59	66	62	74	64	87	**84**
02/21/97	59	67	60	70	57	61	67	64	64	61	84	**85**
04/14/97	67	71	68	72	53	65	55	66	49	63	72	**88**
01/13/97	59	73	61	77	68	70	59	70	70	71	94	**92**
10/21/96	81	70	90	73	64	64	74	66	59	63	88	**89**
08/12/96	76	66	70	71	75	64	76	65	73	60	96	70
04/08/96	74	61	85	77	74	65	69	63	81	59	88	71
01/22/96	50	51	48	71	44	54	44	54	40	50	82	65
10/09/95	65	53	80	71	62	54	69	55	45	49	12	60
07/17/95	55	47	95	60	78	47	69	46	68	50	102	75
04/10/95	35	48	62	53	30	45	34	43	45	50	63	67
01/09/95	58		46		45		49		37		63	
10/10/94	39		35		36		32		48		70	
07/18/94	61		67		70		57		70		72	

Table 7-25
Total THM Sampling Results (µg/L)
City of Ventura

Date	260 Zone*		330 Zone									
	31 McKinley and Katherine		4 Ralston and Swift		10 Grand and Montalvo		17 East Olivas and Park Drive		18 West Food		26 Palma Drive	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
04/10/00	56	70	16	24	91	63	29	44	35	32	21	31
01/24/00	62	76	20	25	48	54	24	48	26	31	22	33
10/11/99	88	75	32	41	66	66	84	66	34	36	38	39
07/19/99	72	65	28	52	48	53	39	48	33	31	43	33
04/19/99	80	61	20	49	52	47	43	44	32	29	30	28
01/25/99	58	58	83	55	98	49	96	39	45	29	46	30
10/12/98	50	61	75	52	15	48	13	36	13	34	12	37
07/13/98	54	64	19	35	24	48	23	36	24	33	23	40
04/20/98	70	64	44	32	58	46	24	36	32	31	40	42
01/12/98	70	60	69	24	94	42	82	36	66	28	72	47
10/13/97	61	61	7	12	17	30	13	22	11	17	25	36
02/21/97	54	65	7	23	15	38	25	32	13	27	29	41
04/14/97	56	73	13	27	42	43	24	29	21	28	60	40
01/13/97	72	**81**	22	31	46	43	26	30	22	30	29	33
10/21/96	77	77	51	33	50	48	51	28	52	28	45	34
08/12/96	88	76	22	26	33	44	15	23	18	21	24	31
04/08/96	88	75	27	25	41	46	29	29	28	25	32	40
01/22/96	56	67	33	23	68	46	17	31	15	25	34	43
10/09/95	73	67	22	17	33	33	30	30	23	27	33	37
07/17/95	81	64	18	12	43	29	39	25	35	29	61	37
04/10/95	58	64	19	12	38	33	38	22	28	26	45	28
01/09/95	54		9		18		14		20		10	
10/10/94	63		0		16		9		33		33	
07/18/94	80		18		59		27		24		24	

Table 7-25
Total THM Sampling Results (µg/L)
City of Ventura

	360 Zone*		400 Zone*				466 Zone*		535 Zone			
	14 Hyland and Catalina		8 Norway and Bounds		34 Seneca St. and Montalvo		30 Hillcrest and Catalina		15 Kimball and Telegraph		16 Wells and Foothill	
Date	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
04/10/00	67	76	57	71	78	**87**	66	**85**	65	**85**	60	**80**
01/24/00	65	**84**	44	75	68	**89**	66	**89**	69	**97**	28	**91**
10/11/99	77	79	68	79	91	**89**	113	**85**	108	**95**	110	**102**
07/19/99	96	70	114	72	109	79	94	71	97	**81**	120	**91**
04/19/99	97	62	75	54	89	63	81	63	112	76	105	**80**
01/25/99	45	52	59	49	66	56	50	61	62	67	71	69
10/12/98	41	61	39	51	53	57	59	64	53	70	66	74
07/13/98	64	71	43	56	45	64	62	68	75	79	76	77
04/20/98	57	72	55	58	60	68	72	69	76	**81**	64	**80**
01/12/98	82	74	66	58	68	71	63	66	77	73	88	**83**
10/13/97	81	75	58	57	84	74	76	62	87	66	79	**83**
02/21/97	66	74	53	63	60	73	65	63	84	74	89	**92**
04/14/97	65	75	56	67	70	79	58	64	42	75	74	**88**
01/13/97	88	76	62	75	82	78	50	69	52	**81**	89	**90**
10/21/96	78	64	82	78	78	69	78	71	116	78	114	79
08/12/96	68	56	68	74	87	70	69	72	89	65	76	67
04/08/96	70	58	87	74	65	71	79	74	65	52	80	61
01/22/96	41	54	73	67	45	71	59	69	41	51	46	55
10/09/95	46	59	68	61	83	76	81	71	63	43	64	51
07/17/95	74	66	68	62	89	76	78	73	37	40	53	39
04/10/95	55	63	57	59	66	71	56	71	63	50	56	43
01/09/95	60		50		64		68		10		30	
10/10/94	74		72		83		89		51		15	
07/18/94	63		55		69		70		77		72	

Table 7-25
Total THM Sampling Results (µg/L)
City of Ventura

Date	430 Zone*											
	1 Hospital and Foothill		2 Ashwood and Telegraph		1 Telephone and Petit		12 Wells and Tulipan		19 Wake Forest and Eddie		23 Cachuma and Jamestown	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
04/10/00	52	76	48	76	27	23	36	28	50	76	28	23
01/24/00	74	**91**	69	86	4	26	3	30	53	**82**	5	33
10/11/99	87	**88**	83	87	43	38	54	41	92	**82**	39	49
07/19/99	90	**83**	102	78	19	31	17	39	107	75	19	46
04/19/99	114	79	89	67	39	40	47	52	75	62	68	54
01/25/99	60	70	73	62	51	35	46	44	53	51	69	44
10/12/98	66	73	47	58	14	41	46	59	63	58	27	47
07/13/98	75	**81**	58	64	57	39	67	69	57	55	51	42
04/20/98	77	77	71	63	18	39	17	69	32	55	27	42
01/12/98	73	77	54	63	73	36	105	66	79	53	84	36
10/13/97	99	79	72	66	8	32	87	56	50	48	4	34
02/21/97	58	**81**	56	70	56	32	68	35	59	55	51	35
04/14/97	77	**93**	68	73	6	20	5	23	23	43	6	28
01/13/97	80	**93**	68	63	58	23	62	26	59	43	76	31
10/21/96	108	**85**	87	56	7	19	4	20	78	42	6	30
08/12/96	105	78	68	49	9	19	22	20	11	39	23	32
04/08/96	79	76	30	50	16	23	14	22	23	47	19	38
01/22/96	46	74	38	53	42	24	38	24	54	54	72	37
10/09/95	82	**83**	58	59	8	17	6	20	69	56	12	23
07/17/95	97	**80**	75	59	27	30	30	22	42	39	47	21
04/10/95	71	71	39	60	18	41	22	33	50	45	15	21
01/09/95	--		65		16		20		63		17	
10/10/94	71		58		58		16		0		6	
07/18/94	70		79		72		72		66		47	

Table 7-25
Total THM Sampling Results (µg/L)
City of Ventura

Date	588 Zone*		599 Zone*		605 Zone*		810 Zone		1010 Zone			
	29 Brodica and Buena Vista		32 Breaker Dr. and Breaker Ct.		3 Victoria and Foothill		35 High Point and Foothill		23 Colima Vista		24 Clubhouse Drive	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
04/10/00	74	**84**	65	74	50	76	60	**84**	57	**94**	29	35
01/24/00	62	81	64	**80**	56	**81**	63	72	77	**109**	33	28
10/11/99	108	77	92	**86**	88	**82**	116	62	124	**113**	53	26
07/19/99	92	64	75	**81**	108	71	96	40	119	**103**	24	19
04/19/99	62	56	89	**88**	71	61	12	31	117	**95**	0	14
01/25/99	47	58	89	**87**	59	60	25	48	93	**82**	28	23
10/12/98	55	60	72	**83**	47	58	25	59	81	**80**	23	24
07/13/98	58	66	100	**87**	68	59	63	72	88	**82**	3	26
04/20/98	70	68	88	**81**	64	55	80	78	64	76	39	27
01/12/98	58	65	70	75	54	52	69	68	87	72	32	22
10/13/97	78	65	91	77	48	54	77	71	90	69	28	24
02/21/97	67	62	73	75	54	66	86	**82**	63	71	10	22
04/14/97	55	65	64	**81**	50	58	38	73	48	71	16	24
01/13/97	58	70	78	**86**	65	66	82	79	76	78	41	28
10/21/96	69	72	84	**83**	94	63	123	73	95	76	21	26
08/12/96	76	70	98	**80**	24	59	49	64	66	73	19	28
04/08/96	75	70	82	79	81	61	61	60	76	75	29	34
01/22/96	67	66	67	76	51	49	60	58	68	75	35	38
10/09/95	60	65	72	**83**	78	52	84	50	83	81	29	39
07/17/95	78	60	96	**84**	35	33	36	48	73	80	44	35
04/10/95	60	58	70	79	31	42	53	62	--	80	43	27
01/09/95	62		93		65		27		88		40	
10/10/94	41		77		1		75		79		14	
07/18/94	67		77		72		91		73		12	

Table 7-25
Total THM Sampling Results (µg/L)
City of Ventura

Date	System Average	
	(1)	(2)
04/10/00	53	64
01/24/00	48	67
10/11/99	78	70
07/19/99	76	61
04/19/99	67	56
01/25/99	59	53
10/12/98	44	57
07/13/98	54	60
04/20/98	57	61
01/12/98	73	58
10/13/97	59	56
02/21/97	55	58
04/14/97	47	59
01/13/97	62	62
10/21/96	70	58
08/12/96	56	54
04/08/96	58	55
01/22/96	49	52
10/09/95	53	51
07/17/95	61	48
04/10/95	46	48
01/09/95	43	
10/10/94	43	
07/18/94	61	

(1) Quarterly test result.
(2) Running yearly average of last four quarterly test results (Bold = >Phase I MCL)
*Zone is directly influenced by surface water treatment plant.

Table 7-26
Haloacetic Sampling Results (µg/L)
City of Ventura

Date	210 Zone* 7 Ventura and Kellogg		260 Zone* 31 McKinley and Katherine		330 Zone 18 West Foods		360 Zone* 14 Hyland and Catalina		400 Zone* 8 Norway and Bound		430 Zone* 11 Telephone and Petit		466 Zone* 30 Hillcrest and Catalina	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
04/10/00	60	55	58	58	13	12	61	59	60	56	12	8	63	60
01/24/00	74		84		12		80		76		4		84	
10/11/99	36		41		10		42		39		7		44	
07/11/99	50		50		13		53		50		9		48	

Date	535 Zone 16 Wells and Foothill		588 Zone* 29 Brodia and Buenavista		599 Zone* 32 Breaker Dr. and Breaker Ct.		605 Zone* 3 Victoria and Foothill		810 Zone 35 High Point and Foothill		1010 Zone 23 Colina Vista		1010 Zone 24 Clubhouse Drive	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
04/10/00	36	33	64	56	59	**61**	50	57	55	48	51	51	10	8
01/24/00	14		80		79		84		47		51		11	
10/11/99	29		28		55		43		35		36		2	
07/11/99	54		52		51		50		54		66		10	

(1) Quarterly test result.
(2) Running average of last four quarterly test results (Bold = >Phase I MCL).
*Zone is directly influenced by surface water treatment plant

TABLE 7-27
Total Organic Carbon
Avenue Treatment Plant
Raw and Treated Water

Test Date	Total Organic Carbon - Raw (mg/L)	Total Organic Carbon - Treated (mg/L)[1]	Alkalinity as $CaCO_3$ - Kingston Res. Influent	Alkalinity as $CaCO_3$ - Power Res. Effluent
9/24/96	ND	0.5[1]/ND[2]		
4/5/99			195	197
4/30/99	2.26	1.76		
6/7/99			204	150
6/21/99	2.64	2.51		
8/9/99			185	168
8/16/99	1.26	1.25		
9/13/99			202	171
9/16/99	2.95	1.67		
10/4/99			196	176
10/14/99	1.93	1.86		
11/1/99			196	160
11/15/99	5.73	4.22		
Annual Avg	2.80	2.21	196	170

[1] Treatment Plant effluent
[2] Power Reservoir effluent

Table 7-28
Ventura County Watershed Sampling Program
By Regional Water Quality Control Board

	Station	Coliform (total)	Fecal Coliform	General Mineral	Boron	NO3-N	NO2-N	NH3-N	Org N	pH	P	BNA	TPH	Metals (10)*	Mercury	TSS	Sed Metals	Sed Pesti-cides**
1	Ventura Lagoon	x	x															
2	Lagoon at RR bridge	x	x			x	x	x	x	x	x		x	x	x		x	x
3	Ventura River at Main Street	x	x	x	x	x	x	x	x	x	x		x	x	x			
4	Ventura River at Stanley Avenue	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
5	Canada Larga at Canada Larga Road	x	x	x	x	x		x	x	x	x					x		
6	Canada Larga (upper)	x	x	x	x	x				x	x							
7	Coyote Creek at Santa Ana Road	x	x	x	x	x		x	x	x	x							
8	Ventura River below San Antonio confl.	x	x	x	x	x		x	x	x	x			x	x			
9	San Antonio Creek at Old Creek Road	x	x	x	x	x		x	x	x	x							
10	Lion Creek at Highway 150	x	x	x	x	x				x	x							
11	San Antonio Creek at Ojai	x	x	x	x	x		x	x	x	x							
12	Ventura River below Highway 150	x	x	x	x	x		x	x	x	x							
13	Ventura River at Camino Cielo Road	x	x	x	x	x		x	x	x	x			x	x			
14	Matilija Creek above dam	x	x	x	x	x				x	x							
15	Matilija Creek at gaging station	x	x	x	x	x				x	x							
16	Matilija Creek North Fork at NF Spr. Rd.	x	x	x	x	x				x	x							

*Arsenic, barium, cadmium, chromium, chromium hexavalent, copper, lead, selenium, silver, zinc.

**Nitrogen and phosphorus containing pesticides (200), chlorinated (160), PCBs (185), chlorophenoxy acid herbicides (230).

Note: Stations 7, 8, 9, 10, 11, and 12 are in the study area of this project.

Table 7-29
Ventura River Watershed Sampling Program
by Regional Water Quality Control Board

Constituent	Units	MDL	San Antonio Creek at Hwy. 150 Bridge #52-97 6/20/95	San Antonio Creek at Creek Road 6/26/96	San Antonio Creek at Old Creek Road 9/5/95	9/3/96
Organics						
4,4'-DDD	µg/kg	5		ND		
4,4'-DDE	µg/kg	5		ND		
4,4'-DDT	µg/kg	5		ND		
ALDRIN (HHDN)	µg/kg	5		ND		
ALPHA-BHC (A-BHC)	µg/kg	5		ND		
BETA-BHC (B-BHC)	µg/kg	5		ND		
CHLORDANE	µg/kg	10		ND		
DELTA-BHC (C-BHC)	µg/kg	5		ND		
DIELDRIN	µg/kg	5		ND		
ENDOSULFAN I	µg/kg	5		ND		
ENDOSULFAN II	µg/kg	5		ND		
ENDOSULFAN SULFATE	µg/kg	5		ND		
ENDRIN	µg/kg	5		ND		
ENDRIN ALDHYDE	µg/kg	5		ND		
GAMMA-BHC (LINDANE)	µg/kg	5		ND		
HEPTACHLOR	µg/kg	5		ND		
HEPTACHLOR EPOXIDE	µg/kg	5		ND		
METHOXYCHLOR(DMDT) (METOXAPHENE)	µg/kg	1000		ND		
TOXAPHENE	µg/kg	100		ND		
General Mineral						
SPECIFIC CONDUCTANCE (UMHO/CM X 10)	µmho/cm	20		1110		
AMMONIA NITROGEN (AS N)	mg/l	0.05	0.2	ND	0.3	ND
BICARBONATE (HCO_3)	mg/l	1	269	276		
BORON	mg/l	0.1	ND		0.2	
CALCIUM (SAME AS DISSOLVED CALCIUM)	mg/l	1	128	136		
HARDNESS ($CaCO_3$)	mg/l	1	441	490		
CARBONATE (CO_3)	mg/l	1	ND	ND		
CHLORIDE	mg/l	1	28	69	56	
FLUORIDE	mg/l	0.1	0.2	0.5		

Table 7-29
Ventura River Watershed Sampling Program
by Regional Water Quality Control Board

Constituent	Units	MDL	San Antonio Creek at Hwy. 150 Bridge #52-97 6/20/95	San Antonio Creek at Creek Road 6/26/96	San Antonio Creek at Old Creek Road 9/5/95	9/3/96
HYDROXIDE (OH)	mg/l	1	ND	ND		
IRON	mg/l	0.1	ND	ND		
MAGNESIUM (SAME AS MAGNESIUM DISSOLVED)	mg/l	1	32	39		
MANGANESE	mg/l	0.03	ND	ND		
NITRATE (AS N)	mg/l	0.2	11.5	1.2	3.7	0.1
NITRATE (AS NO_3)	mg/l	1	51	5		
NITRITE (AS N)	mg/l	0.03		ND	ND	ND
NITROGEN, TOTAL ORGANIC	mg/l	0.05	ND	0.4	ND	0.2
pH	mg/l	0.1	6.9	7.8	7.7	
PHOSPHATE (TOTAL)	mg/l	0.01	0.02	0.04	0.05	0.03
POTASSIUM	mg/l	0.1	1	2		
SODIUM	mg/l	5	38	76		
SULFATE	mg/l	1	215	295	311	
TOTAL ALKALINITY (AS $CaCO_3$)	mg/l	1	221	226		
TOTAL DISSOLVED SOLIDS	mg/l	10	690	816	810	
Bacteriological						
COLIFORM BACTERIA, FECAL	cfu/100 ml			23		
TOTAL COLIFORMS	cfu/100 ml			23		

MDL = minimum detection level