

San Francisco Water Department

ICR WTP ID#: 225

CA

ICR_PWSID: CA3810001961025

ICR Month# 12 ~June 1998

Water Resource Cat SW
Surface Water Resource Cate RL

Avg Flow: 90.34 MG retail for month
Population: 2,300,000

Influent Water Quality

Turbidity	0.59	NTU
Alkalinity	8	ppm CaCO3
Total Hardness	4	ppm CaCO3
Ca Hardness	4	ppm CaCO3
pH	7.1	
TEMP:	11.2	C
NH3	0.1	ppm N
Br	-999	ppm
UV abs	0.067	cm-1
TOC	1.6	ppm
SUVA:	4.16	L/m/mg

Additional Water Source

Type:
Avg_Flow MGD
Day Flow: MGD

Treatment

Process Train
Train Name:

Coagulant_Type:

Alum dose	0	ppm Al
Iron dose:	0	ppm Fe

WTP Disinfectant:

Dist. Sys. Disinfectant: CL2

Cl2 Demand: 0.2 ppm Cl2

Distribution System Residence Time:

Design Monthly

Average: 3 3 Days

Maximum: 5 5 Days

Dist. Sys. Storage Vol.: 415 MG

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Dist. Sys. Disinfectant: CL2

	<u>Influent</u>	<u>Finished</u>	<u>Max.DS</u>	
Turbidity	0.59	0.38		NTU
Alkalinity	8	18		ppm CaCO3
Total Hardness	4	16		ppm CaCO3
Ca Hardness	4	14		ppm CaCO3
pH	7.1	9.5		
TEMP	11.2	12		C
NH3	0.1			ppm N
Br	-999			ppm
UV abs	0.067	0.051		cm-1
TOC	1.6	1.6		ppm
TRC		1.2		ppm Cl2
FRC		1.2		ppm Cl2
TTHM				ppb
HAA5				ppb
HAN4				ppb
TOX				ppb

THM Detail

	<u>Influent</u>	<u>Finished</u>	<u>Max.DS</u>
TTHM			
CHCl3			
CHCl2Br			
CHClBr2			
CHBr3:			

HAN Detail

	<u>Influent</u>	<u>Finished</u>	<u>Max.DS</u>
HAN4			
TCAN			
DCAN			
BCAN			
DBAN			

HAA Detail

	<u>Influent</u>	<u>Finished</u>	<u>Max.DS</u>
HAA9			
HAA6:			
HAA5			
TCAA			
BDCAA			
CDBAA			
TBAA			
DCAA			
BCAA:			
DBAA			
MCAA			
MBAA			

Other DBPs

	<u>Influent</u>	<u>Finished</u>	<u>Max.DS</u>
TCP			
DCP			
Chloropicrin			
CNCl			
Chlorite			
Chlorate			
Bromate			
Formaldehyde			
Acetaldehyde			
Glyoxal			

San Francisco Water Department

Sunol Valley Process Train
ICR WTP ID#: 227

CA

ICR_PWSID: CA3810001961025

ICR Month# 12 ~June 1998

Water Resource Cat SW
Surface Water Resource Cate RL

Avg Flow: 90.34 MG retail for month
Population: 2,300,000

Influent Water Quality

Turbidity	17	NTU
Alkalinity	78	ppm CaCO3
Total Hardness	84	ppm CaCO3
Ca Hardness	56	ppm CaCO3
pH	7.6	
TEMP:	13.8	C
NH3	0.1	ppm N
Br	-999	ppm
UV abs	0.193	cm-1
TOC	3	ppm
SUVA:	6.43	L/m/mg

Additional Water Source

Type:
Avg_Flow MGD
Day Flow: MGD

Treatment

Process Train CONV
Train Name: Sunol Valley Pr

Coagulant_Type: AL

Alum dose 6.03 ppm Al
Iron dose: 0 ppm Fe

WTP Disinfectant: CL2

Dist. Sys. Disinfectant: CL2

Cl2 Demand: 0.5 ppm Cl2

Distribution System Residence Time:

Design Monthly

Average: 3 3 Days

Maximum: 5 5 Days

Dist. Sys. Storage Vol.: 415 MG

San Francisco Water Department

Sunol Valley Process Train
ICR WTP ID#: 227



ICR_PWSID: CA3810001961025

ICR Month# 12 ~June 1998

Dist. Sys. Disinfectant: CL2

	<u>Influent</u>	<u>Finished</u>	<u>Max.DS</u>	
Turbidity	17	0.06		NTU
Alkalinity	78	84		ppm CaCO3
Total Hardness	84	86		ppm CaCO3
Ca Hardness	56	56		ppm CaCO3
pH	7.6	8.6		
TEMP	13.8	12.2		C
NH3	0.1			ppm N
Br	-999			ppm
UV abs	0.193	0.031		cm-1
TOC	3	1.6		ppm
TRC		1.3		ppm Cl2
FRC		1.2		ppm Cl2
TTHM				ppb
HAA5				ppb
HAN4				ppb
TOX				ppb

THM Detail

	<u>Influent</u>	<u>Finished</u>	<u>Max.DS</u>
TTHM			
CHCl3			
CHCl2Br			
CHClBr2			
CHBr3:			

HAN Detail

	<u>Influent</u>	<u>Finished</u>	<u>Max.DS</u>
HAN4			
TCAN			
DCAN			
BCAN			
DBAN			

HAA Detail

	<u>Influent</u>	<u>Finished</u>	<u>Max.DS</u>
HAA9			
HAA6:			
HAA5			
TCAA			
BDCAA			
CDBAA			
TBAA			
DCAA			
BCAA:			
DBAA			
MCAA			
MBAA			

Other DBPs

	<u>Influent</u>	<u>Finished</u>	<u>Max.DS</u>
TCP			
DCP			
Chloropicrin			
CNCl			
Chlorite			
Chlorate			
Bromate			
Formaldehyde			
Acetaldehyde			
Glyoxal			