

# San Francisco Public Utilities Commission - Water Quality Division



## Transmission System Weekly Water Quality Monitoring Summary

Week of 6/14/2021 to 6/20/2021 (Monday to Sunday)

**Table 1- Transmission System Water Quality**

Location	Total Chlorine (mg/L)				pH (Unit)				Turb (NTU)			Fluoride		Cond <sup>1</sup>	Hard <sup>1</sup>	Alk <sup>1</sup>	T (°F)	TC <sup>2</sup>	Comments
	Target	Min	Max	Avg	Target	Min	Avg	Target	Max	Avg	Target	(mg/L)	(uS/cm)	(mg/L)	(mg/L)	(mg/L)	Avg	P/A	
Tesla Portal - Raw	-	-	-	-	≤9.5	-	9.1	≤0.50	-	0.24	-	-	25	7.3	8	57	-		
Tesla Portal - Eff (Free Cl2)	0.8 - 2.0	1.3	1.9	1.6	≤9.5	7.8	8.0	≤0.50	0.25	-	0.6-0.8	0.76	-	-	-	59	-		
Alameda East (Free Cl2)	0.6 - 0.8	0.8	1.3	1.0	≤9.5	7.6	7.9	≤0.50	0.26	0.22	-	-	32	7.6	7	55	A		
SVWTP Eff (Free Cl2)	-	-	-	-	-	-	-	≤0.10	0.05	0.05	-	-	-	-	-	-	-	-	SVWTP OOS as of 6/15
SVWTP Treated Water Res Eff	3.2-3.4	1.8	3.3	2.5	8.6-9.0	8.6	8.6	-	-	-	0.6-0.8	-	-	-	-	61	A	SVWTP OOS as of 6/15	
Irvington Portal 1 (IRV1)	3.2-3.4	3.3	3.4	3.3	9.4-9.8	9.3	9.4	≤0.50	0.23	0.21	0.6-0.8	0.77	45	7.6	10	53	A		
Irvington Portal 2 (IRV2)	3.2-3.4	3.3	3.4	3.3	9.4-9.8	9.4	9.4	≤0.50	0.24	0.21	0.6-0.8	0.77	45	7.8	10	59	A		
Pulgas Res I/O	≥ 2.6	2.9	3.0	2.9	9.4-9.8	9.0	9.1	≤0.50	0.23	0.21	-	-	48	8.4	10	54	A		
BDPL 1 (FRMT)	3.2-3.4	3.3	3.3	3.3	-	-	-	-	-	-	0.6-0.8	0.78	-	-	-	-	-	-	
BDPL 3 (CVL)	3.2-3.4	3.2	3.2	3.2	-	-	-	-	-	-	0.6-0.8	0.72	-	-	-	-	-	-	
BDPL 4 (MV)	3.2-3.4	3.2	3.3	3.2	9.4-9.8	9.2	9.3	≤0.50	0.24	0.22	0.6-0.8	0.72	-	-	-	57	A		
BDPL 1 (RCVL)	3.2-3.4	3.2	3.4	3.3	9.4-9.8	9.1	9.3	≤0.50	0.29	0.25	-	-	-	-	-	54	A		
BDPL 2 (RCVL)	3.2-3.4	3.3	3.4	3.3	9.4-9.8	9.1	9.3	≤0.50	0.20	0.20	0.6-0.8	0.73	-	-	-	54	A		
BDPL 3 (RC_CORD)	3.2-3.4	3.2	3.3	3.2	9.4-9.8	9.1	9.3	≤0.50	0.21	0.20	-	-	-	-	-	54	A		
BDPL 5 (RVL)	3.2-3.4	3.3	3.4	3.3	9.4-9.8	9.3	9.4	≤0.50	0.27	0.26	0.6-0.8	0.75	-	-	-	58	A		
HTWTP Combined Filter	-	-	-	-	-	-	-	≤0.10	0.53	0.12	-	-	-	-	-	-	-	-	See Note 3 in Table 6
HTWTP Eff	3.2-3.4	3.3	3.5	3.4	9.0-9.4	8.8	9.0	-	-	-	0.6-0.8	0.80	154	33.0	33	66	A		
SF Jail	3.2-3.4	3.3	3.3	3.3	-	-	-	-	-	-	0.6-0.8	0.77	-	-	-	65	-	-	
SA2 Baden	3.2-3.4	3.4	3.4	3.4	8.8-9.8	9.0	9.0	≤0.50	0.05	0.05	0.6-0.8	0.79	155	32.8	33	64	A		
SA3 Baden	3.2-3.4	3.3	3.3	3.3	8.8-9.8	8.9	8.9	≤0.50	0.05	0.05	-	-	155	32.8	33	65	A		
CS2 Baden	3.2-3.4	3.2	3.3	3.2	9.2-9.8	9.2	9.3	≤0.50	0.23	0.21	-	-	51	9.3	11	58	A		
SSL Baden	3.2-3.4	3.2	3.3	3.3	9.2-9.8	9.2	9.3	≤0.50	0.23	0.22	-	-	50	8.7	11	56	A		

**Table 2- Transmission System Free Ammonia and Nitrite**

Location	NH3-N Field (mg/L)				Lab (mg/L)		NO2-N (mg/L)	
	Target	Min	Max	Avg	Min	Max	Target	Max
SVWTP Eff X12	0.03-0.05	0.04	0.04	0.04	0.08	0.08	≤ 0.015	0.011
Irvington Portal 1	0.03-0.05	0.00	0.06	0.02	0.04	0.04	≤ 0.015	0.014
Irvington Portal 2	0.03-0.05	0.00	0.00	0.00	0.04	0.06	≤ 0.015	0.005
Pulgas Res I/O	≤ 0.10	0.00	0.03	0.02	-	-	≤ 0.020	0.010
HTWTP Eff	0.03-0.05	0.00	0.00	0.00	0.03	0.04	≤ 0.015	0.006
SA2 Baden/Greek Orthodox	0.03-0.05	0.00	0.00	0.00	-	-	≤ 0.015	0.008
SA3 Baden/Greek Orthodox	0.03-0.05	0.00	0.04	0.02	-	-	≤ 0.015	0.008
CS2 Baden	0.03-0.05	0.00	0.02	0.01	-	-	≤ 0.015	0.007
SSL Baden	0.03-0.05	0.00	0.00	0.00	-	-	≤ 0.015	0.006

**Table 3 - Transmission System DBPs and TOC**

Location	TTHM		HAA		TOC		Comments
	Date	(µg/L)	Date	(µg/L)	Date	(mg/L)	
Tesla Portal- Raw	-	-	-	-	06/14/21	1.5	
Alameda East	06/07/21	30.8	06/07/21	20.4	-	-	
SVWTP - Raw (CAL)	-	-	-	-	-	-	
SVWTP - Raw (SANT)	-	-	-	-	06/11/21	2.5	
SVWTP - Eff	06/11/21	28.6	05/05/21	9.5	06/11/21	1.8	
Irvington Portal 1	06/07/21	34.4	06/07/21	21.4	06/07/21	1.6	
Irvington Portal 2	06/07/21	33.8	06/07/21	22.2	06/07/21	1.5	
Pulgas Reservoir I/O	06/07/21	34.4	06/07/21	21.8	-	-	
HTWTP - Raw	-	-	-	-	06/10/21	2.1	
HTWTP - Eff	06/07/21	8.2	06/07/21	3.3	06/10/21	1.5	
SA2 Baden	06/07/21	8.6	06/07/21	3.5	-	-	
SA3 Baden	06/07/21	8.8	06/07/21	3.6	-	-	
CS2 Baden	06/07/21	35.2	06/07/21	23.2	-	-	
SSL Baden	06/07/21	32.7	06/07/21	22.6	-	-	

**Table 4 - Daily Average Flows**

Source Water	Flows (MGD)								
	Min	Max	14-Jun	15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun
Hetchy (Tesla)	245	246	246	246	246	246	246	246	246
SVWTP	0	31	16	4	0	0	0	0	0
HTWTP	17	37	25	26	29	30	28	26	25
CSPS	0	45	20	20	20	20	20	45	45
Baden PS	0	0	0	0	0	0	0	0	0
SCVWD Intertie	0	6	0	0	0	0	0	0	3
Regional GW	0.00	0.23	0.01	0.01	0.03	0.03	0.02	0.02	0.03

**Table 5 - pH Target Range**

Conductivity (µS/cm)	Irv Portal pH (unit)	Baden pH (unit)
≤ 150	9.4 - 9.8	9.2 - 9.8
150-250	9.0 - 9.4	8.8 - 9.8
≥ 250	8.6 - 9.0	8.6 - 9.8

**Table 6 - Notes**

1) Monitored on 20-Jun
2) SA2 and SA3 Baden P/A samples are collected at Greek Orthodox Site.
3) HTWTP Combined Filter Effluent, turbidity = 0.52 NTU, Fe <sup>2+</sup> = 0.18 ppm on 5/17. On 5/18, turbidity < 0.05 NTU.

**Legend:**

-	Samples not routinely collected at this location	Target range
(blank)	Samples not collected this week	Sample result outside of target range