



Valley Water

Water • Air • Health • Environment • Food Protection

## Valley Water System # 4310027

Report for: Penitencia, Rinconada, Santa Teresa Water Treatment Plants

Start: 6/1/2021 End: 6/30/2021

### Primary Standards - Mandatory Health-Related Standards

	Units	MCL	DLR	PWTP Influent	PWTP Treated	RWTP Influent	RWTP Treated	STWTP Influent	STWTP Treated
Aluminum	ug/L	1000	50	131	ND	115	ND	127	ND
Antimony	ug/L	6	6	ND	ND	ND	ND	ND	ND
Arsenic	ug/L	10	2	2	ND	2	ND	2	ND
Barium	ug/L	1000	100	ND	ND	ND	ND	ND	ND
Beryllium	ug/L	4	1	ND	ND	ND	ND	ND	ND
Bromate	ug/L	10	1	NT	ND	NT	NT	NT	2
Cadmium	ug/L	5	1	ND	ND	ND	ND	ND	ND
Chlorine Total by DPD	mg/L	NS	NS	NT	3.1	NT	2.3	NT	3.3
Chromium	ug/L	50	10	ND	ND	ND	ND	ND	ND
Fluoride	mg/L	2	0.1	0.1	0.7	ND	ND	ND	0.7
Mercury	ug/L	2	1	ND	ND	ND	ND	ND	ND
Nickel	ug/L	100	10	ND	ND	ND	ND	ND	ND
Nitrate as Nitrogen	mg/L	10	0.4	ND	ND	ND	ND	ND	ND
Nitrite as Nitrogen	mg/L	1	0.4	ND	ND	ND	ND	ND	ND
Perchlorate	ug/L	6	4	ND	ND	ND	ND	ND	ND
Selenium	ug/L	50	5	ND	ND	ND	ND	ND	ND
Thallium	ug/L	2	1	ND	ND	ND	ND	ND	ND
Dibromoacetic Acid	ug/L	NS	1	NT	2.8	NT	4.2	NT	2.3
Dichloroacetic Acid	ug/L	NS	1	NT	3.5	NT	1.4	NT	ND
Monobromoacetic Acid	ug/L	NS	1	NT	ND	NT	ND	NT	ND
Monochloroacetic Acid	ug/L	NS	2	NT	ND	NT	ND	NT	ND
Trichloroacetic Acid	ug/L	NS	1	NT	5.0	NT	1.6	NT	ND
Total Haloacetic Acids (5)	ug/L	60	NS	NT	11	NT	7	NT	2
Bromodichloromethane	ug/L	NS	1	NT	11.9	NT	8.8	NT	5.6
Bromoform	ug/L	NS	1	NT	3.8	NT	7.4	NT	9.5
Chloroform	ug/L	NS	1	NT	10.0	NT	2.5	NT	1.7
Dibromochloromethane	ug/L	NS	1	NT	12.6	NT	16.2	NT	9.9
Total Trihalomethanes	ug/L	80	NS	NT	38	NT	35	NT	27
Heterotrophic Plate Count	CFU/mL	NS	NS	11050	<1	9231	2	1828	<1

### Secondary Standards - Aesthetic Standards

	Units	MCL	DLR	PWTP Influent	PWTP Treated	RWTP Influent	RWTP Treated	STWTP Influent	STWTP Treated
Apparent Color	Color Unit	15	NS	35	<2.5	27	<2.5	18	<2.5
Chloride	mg/L	500	NS	82	86	85	87	86	89
Conductivity	umhos/cm @ 25C	1600	NS	575	664	567	648	559	600
Copper	ug/L	1000	50	ND	ND	ND	ND	ND	ND
Iron	ug/L	300	100	140	ND	126	ND	141	ND
Manganese	ug/L	50	20	23	ND	27	ND	29	ND
pH	pH units	NS	NS	8.2	7.8	8.1	7.7	8.1	7.9
Silver	ug/L	100	10	ND	ND	ND	ND	ND	ND
Sulfate	mg/L	500	0.5	49.5	86.6	46.6	92.4	44.8	59.1
Total Dissolved Solids at 180C	mg/L	1000	NS	302	362	312	358	312	328



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Clean Water • Healthy Environment • Food Protection

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Turbidity	NTU	5	0.1	7.84	0.10	5.74	ND	5.08	ND
Zinc	ug/L	5000	50	ND	ND	ND	ND	ND	ND

### Additional Constituents Analyzed

	Units	MCL	DLR	PWTP Influent	PWTP Treated	RWTP Influent	RWTP Treated	STWTP Influent	STWTP Treated
Boron	ug/L	NS	100	221	225	195	194	177	183
Bromide	mg/L	NS	NS	0.26	<0.1	0.28	0.13	0.28	0.17
Calcium	mg/L	NS	NS	26.8	27.5	22.4	22.5	20.2	21.5
Chlorate	ug/L	NS	20	NT	125	NT	104	NT	178
Hexavalent Chromium	ug/L	NS	1	ND	ND	ND	ND	ND	ND
Lead	ug/L	NS	5	ND	ND	ND	ND	ND	ND
Magnesium	mg/L	NS	NS	15.2	15.4	13.2	13.2	12.1	12.9
Phosphate, Ortho (as PO4)	mg/L	NS	NS	0.25	1.04	0.25	1.08	0.27	1.05
Potassium	mg/L	NS	NS	2.6	2.8	3.3	3.2	3.3	3.6
Sodium	mg/L	NS	NS	39	58	50	64	53	65
Temperature	Deg C	NS	NS	20	21	19	20	20	22
Total Alkalinity (as CaCO3)	mg/L	NS	NS	100	92	91	79	87	80
Total Ammonia Nitrogen	mg/L	NS	NS	<0.1	0.69	<0.1	0.52	<0.1	0.73
Total Organic Carbon	mg/L	NS	0.3	5.00	3.23	3.80	1.93	3.43	2.10
Vanadium	ug/L	NS	3	ND	ND	ND	ND	ND	ND

MCL = Maximum Contaminant Level  
 DLR = Detection Limit for Reporting  
 PWTP = Penitencia Water Treatment Plant  
 RWTP = Rinconada Water Treatment Plant  
 STWTP = Santa Teresa Water Treatment Plant

mg/L = milligrams per liter  
 ug/L = micrograms per liter  
 Deg. C = Degree Celsius  
 CFU/mL = colony forming units per milliliter  
 umhos/cm = micromhos per centimeter  
 NTU = nephelometric turbidity units

ND = Not Detected  
 NT = Not Tested  
 NS = No Standard  
 NR = Not Reported

For questions about this report, or for additional water quality information, call (408) 630-2268.

Surjit Saini  
 Laboratory Manager  
 Laboratory Services Unit

07/10/2021

**MONTHLY SUMMARY OF REVISED TOTAL COLIFORM RULE DISTRIBUTION SYSTEM MONITORING**  
(Including triggered source monitoring for system subject to Groundwater Rule)

System Name: <b>Santa Clara Valley Water District</b>	System Number: <b>4310027</b>
Sampling Period: <b>June</b>	Year: <b>2021</b>

	Number Required	Number Collected	Number Total Coliform Positives	Number E.Coli Positives
1. Routine Samples (see note 1) :	340	445	1	0
2. Repeat Samples following samples that are Total Coliform POSITIVE and E.coli NEGATIVE (see notes 10 and 11) :		3	0	0
3. Repeat Samples following routine samples that are Total Coliform POSITIVE and E. coli POSITIVE (see notes 10 and 11) :		0	0	0
4. Treatment Technique (TT)/MCL Violation Computation for Total Coliform/E.Coli Positive Samples				
a. Totals (sum of columns) :	340	448	1	
b. If 40 or more samples are collected in the month, determine percent of samples that are Total Coliform positive. ([total number positive / total number collected] x 100):	0.22	%		
c. Did the system trigger... a LEVEL 2 Assessment TT? (See notes 2, 3, 4 ,5 and 6 for trigger info) <i>If a LEVEL 2 Assessment is triggered, see note 8 below.</i>		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
a LEVEL 1 Assessment TT? (See notes 7 for trigger info) <i>If a LEVEL 1 Assessment is triggered, see note 9 below.</i>		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
5. Triggered Source Samples per Groundwater Rule (see notes 12 and 13)		0	0	0
6. Invalidated Samples (note what samples, if any, were invalidated; why they were invalidated; who authorized the invalidation; and when replacement samples were collected. Attach additional sheets, if necessary.)				

7. Summary Completed By:

Signature: 	Title: <b>Surjit Saini Laboratory Manager</b>	Date: <b>7/6/2021</b>
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NOTES AND INSTRUCTIONS:

1. Routine samples include:
  - a) Samples required pursuant to 22 CCR Section 64423 and any additional samples required by an approved routine sample siting plan established pursuant to 22 CCR Section 64422
  - b) Extra samples are required for systems collecting less than five routine samples per month that had one or more total coliform positives in previous
  - c) Extra samples for systems with high source water turbidities that are using surface water or groundwater under direct influence of surface water and do not practice filtration in compliance with regulations;
2. Note: For a repeat sample following a Total Coliform positive sample, any E.Coli positive repeat (boxed entry) **constitutes an MCL violation and requires immediate notification to the Department** (22 CCR, Section 64426.1).
3. Note: For a repeat sample following a E. Coli positive sample, any Total Coliform positive repeat (boxed entry) **constitutes an MCL violation and requires immediate notification to the Department** (22 CCR, Section 64426.1).
4. Note: Failure to take all required repeat samples following an E. coli positive routine sample (22, CCR, Section 64426.1) **constitutes an MCL violation and requires immediate notification to the Department** (22 CCR, Section 64426.1).
5. Note: Failure to test for E. coli when any repeat sample tests positive for total coliform (22, CCR, Section 64426.1) **constitutes an MCL violation and requires immediate notification to the Department** (22 CCR, Section 64426.1).
6. Note: Second Level 1 treatment technique trigger in a rolling 12-month period.
7. Total coliform Treatment Technique (TT) Violation (**Notify Department within 24 hours of MCL violation**).
  - a. For systems collecting less than 40 samples, if two or more samples are total coliform positive, then the TT is violated and a Level 1 Assessment is required.
  - b. For systems collecting 40 or more samples, if more than 5.0 percent of samples collected are total coliform positive, then the TT is violated and a Level 1 Assessment is required.
8. Contact the Division as soon as practical to arrange for the division to conduct a Level 2 Assessment of the water system. The water system shall complete a Level 2 Assessment and submit it to the Division within 30 days of learning of the trigger exceedance.
9. Conduct a Level 1 Assessment in accordance with as soon as practical that covers the minimum elements (22, CCR, Section 64426.8 (a), (2). Submit the the report to the Division within 30 days of learning of the trigger exceedance.
10. Positive results and their associated repeat samples must be tracked on the Coliform Monitoring Worksheet
11. Repeat samples must be collected within 24 hours of being notified of the positive results. For systems collecting more than one routine sample per month, three repeat samples must be collected for each total coliform positive sample. For systems collecting one or fewer routine samples per month, four repeat samples must be collected for each total coliform positive sample. At least three samples shall be taken the month following a total coliform positive.
12. For systems subject to the Groundwater Rule: Positive results and the associated triggered source samples are to be tracked on the Coliform Monitoring Worksheet.
13. For triggered sample(s) required as a result of a total coliform routine positive sample, an E.coli positive triggered sample (boxed entry) requires immediate notification to the Division, Tier 1 public notification, and corrective action.

# COLIFORM MONITORING WORKSHEET

( COMPLETED FOR POSITIVE ROUTINE SAMPLES, ALL REPEAT SAMPLES, AND ALL TRIGGERED SOURCE SAMPLES)

Routine Samples <sup>9</sup>			Repeat Samples <sup>6</sup>				Triggered Source Samples <sup>8</sup>					
TC+ Sample Date	TC+ Sample Site ID	<sup>12</sup> E. coli Results	Repeat Collection Date	Repeat Sample Site IDs <sup>10</sup>	Coliform Results (Check one box)			Source Sample Date	Groundwater Source(s) Sampled	<sup>12</sup> TC Results	<sup>11,12</sup> E. coli Results	
					TC-	TC+ BUT E. coli-	TC+ AND E. coli+					
6/28/2021	Milpitas Turnout	(-)	6/29/2021	1 Milpitas Turnout	X					(+ / -)	(+ / -)	
			6/29/2021	2 Hostetter Turnout	X					(+ / -)	(+ / -)	
			6/29/2021	3 Penitencia Treated	X						(+ / -)	(+ / -)
				4							(+ / -)	(+ / -)
		(+ / -)		1						(+ / -)	(+ / -)	
				2						(+ / -)	(+ / -)	
				3						(+ / -)	(+ / -)	
				4						(+ / -)	(+ / -)	
		(+ / -)		1						(+ / -)	(+ / -)	
				2						(+ / -)	(+ / -)	
				3						(+ / -)	(+ / -)	
				4						(+ / -)	(+ / -)	
		(+ / -)		1						(+ / -)	(+ / -)	
				2						(+ / -)	(+ / -)	
				3						(+ / -)	(+ / -)	
				4						(+ / -)	(+ / -)	
		(+ / -)		1						(+ / -)	(+ / -)	
				2						(+ / -)	(+ / -)	
				3						(+ / -)	(+ / -)	
				4						(+ / -)	(+ / -)	
		(+ / -)		1						(+ / -)	(+ / -)	
				2						(+ / -)	(+ / -)	
				3						(+ / -)	(+ / -)	
				4						(+ / -)	(+ / -)	
		(+ / -)		1						(+ / -)	(+ / -)	
				2						(+ / -)	(+ / -)	
				3						(+ / -)	(+ / -)	
				4						(+ / -)	(+ / -)	
		(+ / -)		1						(+ / -)	(+ / -)	
				2						(+ / -)	(+ / -)	
				3						(+ / -)	(+ / -)	
				4						(+ / -)	(+ / -)	
		(+ / -)		1						(+ / -)	(+ / -)	
				2						(+ / -)	(+ / -)	
				3						(+ / -)	(+ / -)	
				4						(+ / -)	(+ / -)	

Comments:

- NOTES AND INSTRUCTIONS:**
- Repeat samples must be collected within 24 hours of being notified of the positive results. For systems collecting more than one routine sample per month, three repeat samples must be collected for each total coliform positive sample. For systems collecting one or fewer routine samples per month, four repeat samples must be collected for each total coliform positive sample.
  - For triggered sample(s) required as a result of a total coliform routine positive sample, an *E.coli*, enterococci, or coliphage positive triggered sample (boxed entry) **requires immediate notification to the Department, Tier 1 public notification, and corrective action.**
  - Also include any data for positive samples that occurred in the previous month that led to repeat monitoring occurring in the reporting month. Include location and indicate if the routine sample was either positive or negative for *E.coli* or Fecal Coliforms.
  - For systems serving ≤ 1000 persons that collect one or fewer routine samples per month, a triggered source water sample may be used as the fourth repeat, as noted in an approved plan, **if E. coli was the indicator used.** Show result in GW source column too.
  - The Department recommends using *E. coli* (see note B). If enterococci or coliphage is used, note which in the comment box below
  - Circle the appropriate result.

Abbreviations: TC = Total Coliform, FC = Fecal Coliform, EC = *E. coli*