

Water Quality Violations (NPDES Permit - effluent)

2004 VIOLATIONS			
Date	Permit Limit	Violation	Cause / Corrective Action
May 23	Settleable Solids 0.5 ml/l	1.5 ml/l	Biological growth was dislodged from the sample line while the sample was being collected. This caused an elevated level of solids in the sample. To mitigate this, the sample tap was modified to prevent dislodging solids from the sample line.

2005 VIOLATIONS			
Date	Permit Limit	Violation	Cause / Corrective Action
June 10	Chlorine Residual Mass 27 lbs/day Chlorine Residual Concentration 0.018 mg/l (Daily Avg)	84.31 lbs 0.070 mg/l	A computer failure caused a disruption in dechlorination chemical feed. The computer system was repaired and a failure analysis was performed. Response procedures were also reviewed with operations staff.
Sept. 2	Chlorine Residual Mass 27 lbs/day Chlorine Residual Concentration 0.018 mg/l (Daily Avg)	51 lbs 0.0467 mg/l	Normally the plant has the ability to feed two separate dechlorination chemicals (one as primary and the second as a back-up). Due to manufacturer problems only a single chemical was available for use. This reduced the plants flexibility with its dechlorination operations. SRWTP worked with the manufacturer to resolve the problems so that both chemicals were available for use. Computer controls were also developed to automatically feed dechlorination chemical.
Sept. 5	Chlorine Residual Mass 27 lbs/day Chlorine Residual Concentration 0.018 mg/l (Daily Avg)	32.75 lbs 0.0304 mg/l	Same as above.
Sept. 30	Chlorine Residual Concentration 0.018 mg/l (Daily Avg)	0.022 mg/l	Same as above.

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2006 VIOLATIONS			
Date	Permit Limit	Violation	Cause / Corrective Action
		None	n/a

2007 VIOLATIONS			
Date	Permit Limit	Violation	Cause / Corrective Action
April 18	Chlorine Residual Concentration 0.013 mg/l (Daily Avg.)	0.037 mg/l	A power loss at the outfall station led to a series of events that resulted in loss of dechlorination. Training on response to power loss at the outfall was provided.
June 24-30	Coliform 23 MPN/100ml (weekly median)	30 MPN/100ml	Despite high chlorine doses, the Coliform limit was exceeded. As a result chlorine levels were further increased.
Aug. 6	pH not to fall below 6.0 for more than 20 minutes	5.97 20 minute average	An unexpected drop in flow led to increased chlorine levels, which depressed pH.

2008 VIOLATIONS			
Date	Permit Limit	Violation	Cause / Corrective Action
Feb. 18	Bioassay Min 70% Survival	Survival @ 65%	No specific toxicant or cause identified, however some problems were identified with the testing system. The testing system is being evaluated and modifications/improvements will be made as needed.
Mar. 17	Bioassay Min 70% Survival	Survival @ 60%	Same as above.
Mar. 24	Bioassay Min 70% Survival	Survival @ 50%	Same as above.
March	Bioassay Min 90% Survival Monthly Median	Survival @ 85%	Same as above.
April	Settleable Solids .5 ml/l	2.5 mL/L	Sample was collected while returning effluent from an on-site storage basin which likely contributed to the elevated solids but would not be representative of the daily discharge.

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2009 VIOLATIONS			
Date	Permit Limit	Violation	Cause / Corrective Action
April 29	The ambient river pH not to exceed 0.5 between R-1 and R-3.	The difference between R-1 and R-3 was 0.6 pH units.	None. Event attributed to extreme low flows.
Sept. 7	Bioassay minimum 70% survival for a single test	Survival @ 60%	No specific toxicant or cause identified. This event is still under investigation.
Oct. 12	Bioassay minimum 70% survival for a single test	Survival @ 55%	No specific toxicant or cause identified, although "first-flush" scenario is suspected. This event is still under investigation.
Nov.	Bioassay minimum median 90% survival for any three or more tests	Survival @ 85%	No specific toxicant or cause identified. This event is still under investigation.

Note: The Regional Board has identified six (6) additional violations of the minimum median survival. This interpretation of the permit is different from past practice, and is being discussed with the Regional Board.