



October 19, 2011

Hand Delivered

California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, #1400
Oakland, CA 94612

Attention: Ms. Tong Yin, Ph.D., P.E.

Re: Self-Monitoring Program Reports
Novato Wastewater Treatment Plant

Enclosed please find the September 2011 Monthly Self Monitoring Report for the Novato Wastewater Treatment Plant, and the Reclamation area. This report was prepared by Linda Candelaria, Laboratory Supervisor.

"I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Sincerely,

A handwritten signature in blue ink, appearing to read 'John Bailey', written over a horizontal line.

John Bailey
Project Manager
Veolia Water West - Novato CA

NPDES violations noted this month
☒ Wastewater was diverted to Reclamation for irrigation this month.
____ Wastewater treatment violations noted this month - see attached Evaluation of
____ Violations Report.
☒ Reclamation facility violations noted this month - see attached Evaluation of
____ Violations Report.
☒ Overflows occurred this month- see attached Overflow Report



SEPTEMBER 2011

NOVATO SANITARY DISTRICT
VEOLIA WATER WEST OPERATING SERVICES
SELF MONITORING PROGRAM

for

THE NOVATO WASTEWATER TREATMENT PLANT
and

RECLAMATION AREA

NOVATO SANITARY DISTRICT SELF-MONITORING PROGRAM

Novato Plant

For: September 2011

NOTES

ANALYTICAL NOTE:

- All BOD analysis is analyzed by Standard Methods 5210 B.
- All TSS analysis is analyzed by Standard Methods 2540 D.
- The District initiated a TIE on February 16, 2011, due to the February 2, 2011 chronic toxicity EC₂₅ (%) result of 8.6 TUC. The Water Board staff has received reports of the Phase I TIE report with the results of the initial findings under a separate correspondence dated March 23, 2011. Part of the first phase of the TRE plan is to investigate the District's internal process streams. A chronic toxicity test was initiated on March 28, 2011 and another chronic toxicity test was initiated on April 18, 2011 as part of the internal processes investigation. The chronic toxicity test initiated in April resulted in a 43.5 TUC value. Water Board was notified and a TIE was completed on the April samples; this was initiated on May 10, 2011. Another TIE was initiated on June 23, 2011. *Aqua Science* laboratory completed a site visit on August 11, 2011 to view facilities to determine if sampling equipment or protocol may have affected the observed toxicity results. A summary of the events and the results are included in the Interim Phase I report and are included in the *Appendices* of this SMR. The District will resume compliance chronic testing in October along with the TIE testing.
- A "J" symbol reflects estimated analytical result value detected below the Reporting Limit (R.L.) and above the Method Detection Limit (MDL). The "J" flag is equivalent to the DNQ Estimated Concentration flag.
- Value results of "< 1.0" are reported as "1.0 MPN/100 mL to complete the calculation of the geometric mean.

REPORT NOTE:

- Values are reported to significant figures, as required by permit limits.
- All laboratory values with "J" or "DNQ" values are "estimated concentration" values. The electronic system does not accommodate written parameters; this notification is to satisfy requirement E-11, 4b. of the District's NPDES permit of identifying all "J" or "DNQ" values as "estimated concentration" values.

Novato Sanitary District Self-Monitoring Report –September Reclamation 2011

- Below is a summary of the last 11 reports.

Tabular Summary of Effluent Test Results (most sensitive endpoint) Chronic Toxicity Testing

Test Date	Apr-10	May-10	Jun-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11
EC25	14.1	>100	>100	>100	10.8	>100	>100	11.6	58	2.3
NOEC	12.5	100	<6.25	100	12.5	100	100	6.25	50	<6.25
Tuc (100/EC25	7.1	<1.0	<1.0	<1.0	9.3	<1.0	<1.0	8.6	1.7	43.5

OPERATION NOTE:

All effluent in September was discharged to the reclamation storage ponds.

VIOLATIONS FOR SEPTEMBER 2011

NPDES VIOLATION (DISCHARGE)	PARAMETER	RESULT	DATE
NONE			

WDR VIOLATION (RECLAMATION)	PARAMETER	RESULT	DATE
E-004	pH	9.7	9/20/2011
E-005	pH	9.5	9/20/2011
E-007	pH	9.1	9/20/2011
E-008	pH	9.5	9/20/2011

EVALUATION OF VIOLATIONS FOR AUGUST 2011

pH WDR - E-008: A wide fluctuation in pH is normal for pond operations. This is a naturally occurring condition due primarily to photosynthesis and the oxygen / carbon dioxide cycle.

Note - An online technical article describing this cycle can be found at:

http://aquaninc.org/publicat/usda_race/efs/srac/464fs.pdf . **No discharge from this location occurs.**

**Novato Sanitary District
Self-Monitoring Report –September Reclamation 2011**

COLLECTION SYSTEM OVERFLOWS FOR AUGUST 2011

The Novato Sanitary District Collection System had one overflow for September 2011:

Sunday, September 18, 2011, 110 Emerson Ave, Novato CA, 600 gallon SSO, Event ID 771237, Certification ID 217175

EVALUATION OF THE OVERFLOW FOR SEPTEMBER 2011

110 Emerson Ave: The District is currently upgrading several of its pump stations including the Southgate Pump Station. The construction contractor for the project was in control of this pump station when the following incident occurred: A malfunction in a manual valve on the discharge side of this pump station in combination with the failure of a temporary telemetry circuit at the lift station resulted in a sewage discharge of approximately 600 gallons. The manhole in front of 110 Emerson Ave was overflowing at a rate of approximately 3-5 gallons per minute when staff arrived. During the course of this event, a sewer manhole in front of 18 Maybeck St also discharged a small amount (<25 gallons) before the lift station could be brought back on line. The San Diego picture comparison method was used to estimate the volume of the discharge. District and contractor personnel were able to diagnose the problem and return the lift station to normal operation. The subsequent investigation determined that the valve stem tension clamp was not set correctly at the factory and allowed the valve to close as a result of the normal operation of the lift station. The discharge went directly into the gutter and from there into an adjacent storm drain inlet. City of Novato staff members were contacted to help determine whether the discharge remained localized or if it had reached a point of outfall. It was determined that the overflow was 100 percent contained within the local storm drain system due to the storm drain configuration. Novato Sanitary District personnel pumped approximately 40,000 gallons of standing water from the local storm drain system using a 4" pump with an estimated pumping rate of 500 G.P.M. for 80 minutes (1.4hrs) into the sanitary sewer system. Staff also removed another 9,000 gallons of de-chlorinated water and debris while cleaning the affected storm drains during recovery efforts. District staff recovered 100 percent of the discharge from the storm drain system and returned it to the sanitary sewer system during the course of cleanup operations. No waterways or drainage ditches were affected during this event.