



Stonegate Village Metropolitan District  
Wastewater Treatment Facility  
16850 South Jordan Road  
Parker, CO 80134

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Colorado Department of Public Health and Environment  
Water Quality Control Division  
WQCD-B2-CWE  
4300 Cherry Creek Drive South  
Denver, CO 80246-1530  
Attn: Ms. Aly Ulibarri  
RE: Permit # CO-0040291 Total Inorganic Nitrogen Exceedance

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February 26, 2019

Dear Ms. Ulibarri:

The Stonegate Village Metropolitan District (SVMD), Colorado Discharge Permit System (CDPS), Permit #*CO-0040291, 002-A, 00640 1 0, Nitrogen, inorganic total* exceeded the permitted limit of 10 mg/L (milligrams per liter) for the Daily Maximum. The analytical result of the final effluent sample collected on 01/03/19 was 11.0 mg/L. The exceedance occurred during the Discharge Monitoring Report (DMR) period from 01/01/19 through 01/31/19.

The normal operation of the aeration blowers at the Wastewater Treatment Facility (WWTF) were interrupted sometime during the night of 01/02/19. A harmonic filter located in the same Motor Control Center (MCC) as the electrical feed for the aeration blowers failed. Several of the electronic components within the harmonic filter suffered catastrophic damage. The failure of the harmonic filter coincidentally caused the Main Breaker in the MCC to trip open. This Main breaker provided electrical power to the aeration blowers. The electrician that responded to the call to repair the harmonic unit presumed that one or more power surges on the incoming electrical feed provided by Intermountain Rural Electric Association (IREA) caused the unit to fail.

The exact duration that the aeration blowers were off and not running is not known. No alarm was initiated and no notice of the equipment failure was recorded or received. It is estimated that the aeration basins in the WWTF were not aerated and did not receive aeration for a period of (12) twelve hours.

As a consequence of insufficient aeration the aerobic zones of the WWTF did not reduce the total inorganic nitrogen (TIN) below the permit limit. The treatment of TIN was diminished and inadequate. This resulted in the daily maximum exceedance of TIN. The analytical result of the final effluent collected on 01/29/19 was 8.2 mg/L. This concentration is routine and customary. The daily maximum annual average for calendar year 2018 was 8.1 mg/L. Indications are that the WWTF treatment process for TIN reduction is now performing adequately.

SVMD immediately contacted its control system integrator after discovering that this equipment failure did not initiate an alarm. The integrator has programmed the Supervisory Control and

Data Acquisition (SCADA) system to initiate an alarm if and when a similar circumstance or event occurs. A test of the alarm was performed. An alarm will automatically call out the individual that is "on call". The time of the alarm will also be recorded on the SCADA system and date stamped.

Thank you for your consideration.

If there are any questions I can be contacted at telephone number 303-912-1126.

Sincerely,

A handwritten signature in blue ink that reads "Gerard Whelan". The signature is written in a cursive style.

Gerard T. Whelan  
Colorado Water Systems  
Operator in Responsible Charge

Cc: Ms. Sara Sjbokken, SVMD District Manager, EPA CDX NetDMR, SVMD Files