

Town of Yountville

"The Heart of the Napa Valley"

January 30, 2020

Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay St., Suite 1400
Oakland, CA 94612
Attention: Anna Gallagher

RE: NPDES Permit No. CA0038121 (Order No. R2-2015-0029)

Dear Ms. Gallagher:

The following information and attachments comprise the 2019 Annual Report for the Town of Yountville (Town) Wastewater Reclamation Facility. Additional 2019 reporting requirements that are due by February 29, 2020, will be submitted under a separate cover letter. It is important to note that the Town is a member of the Bay Area Clean Water Agencies (BACWA). In addition to the compliance requirements reported herein by the Town, regional compliance efforts have been undertaken and reported by BACWA. BACWA submitted a letter to Michael Montgomery on January 20, 2020, describing compliance with *NPDES Permit Requirements for Receiving Water Quality Monitoring, TMDL/SSO Support, Mercury and PCBs Watershed Permit Support, and Implementation of Copper Action Plans*.¹

Of the 165 million gallons of effluent treated at the Town of Yountville Wastewater Reclamation Facility in 2019, approximately 61% was beneficially reused for irrigation purposes by six (6) agricultural recycled water customers located in the unincorporated Napa County, one (1) golf course, and several contractors for soil compaction/dust control. The remaining 39% was discharged to the Napa River in accordance with NPDES Permit conditions.

Changes to Facility Equipment or Operations Practices

During 2019, the following improvements were completed at the Wastewater Reclamation Facility.

- Implemented a Computerized Maintenance Management Software that will be utilized throughout all Utility Operations including wastewater treatment operations.

¹ Available at www.bacwa.org

- Three (3) level measurement devices were replaced with newer technology and linked to the existing Supervisory Control And Data Acquisition (SCADA) system to improve alarming capabilities associated with those processes.
- Flight drive and wasting pump motor starters/disconnect panels were replaced and linked to existing SCADA system. Additional alarms were added to this process equipment at this time as well.
- Wastewater Return Pumps were connected to SCADA system.
- The Scum Well was thoroughly cleaned and rehabilitated with a cementitious product followed by an epoxy coating that will add substantial life to this underground holding tank.
- The WRF Control Room is in the design phase for an expansion and modernization project that will be constructed in fiscal year 2020/21.

During 2019, the following improvements were completed in the Town's wastewater collection system.

- The Town began implementation of a Computerized Maintenance Management Software to be utilized throughout all Utility Operations including wastewater collection system operations;
- Utility Operations Staff worked with a contractor to slipline approximately 750 feet of 6" and 8" VCP sewer main;
- A total of 19 "point repairs" and 8 "top hat" repairs were made within the collection system at various locations. All repairs were performed within the pipe without the need for traditional excavation and interruption of service;
- A replacement pump was purchased for the Town's Wastewater Pump Station to act as a standby/emergency backup pump in the event of one of the two duty pumps fail.

Treatment Plant Performance and Permit Compliance

Monitoring data for the entire calendar year were submitted electronically to CIWQS through the eSMR system. The WRF was in compliance with all of the NPDES and recycled water permit conditions.

Facility Report Reviews

The Town reviewed the Operations & Maintenance (O&M) Manual for the Wastewater Reclamation Facility. As large-scale projects are finished, the Town plans to add new information pertaining to equipment and modifications to plant processes so the O&M Manual will be a usable living document available for operations staff with the most up-to-date information. The Town reviewed its Contingency/Spill Prevention Plan to increase its usability

and accessibility by Town staff and others. Some portions of the plan require updates and modifications; these changes are anticipated to be completed in the summer of 2020. The documents are available to the Regional Water Quality Control Board upon request.

During an annual review of the Storm Water Pollution Prevention Plan (SWPPP) for the Wastewater Reclamation Facility/Corporation Yard, no issues were found and the “Facility Inspection Form” was completed. All storm drain inlets that do not drain to the Wastewater Reclamation Facility have been permanently marked as such with aluminum emblems that state “No Dumping – Drains to River.” Inspections during storm and non-storm events have continued as outlined in the SWPPP.

Compliance with Waste Discharge Requirements for Municipal and Industrial Wastewater Discharges of Mercury and PCBs to San Francisco Bay

As required by Mercury and PCBs Watershed Permit (Order No. R2-2012-0096), the 2019 mercury loading information is attached to this annual report. The Town conducted EPA Method 1668C and 608 PCBs sampling in January 2019 and those results were reported electronically through CIWQS with the March 2019 SMR.

Other Attachments

Per requirements in Regional Standard Provisions (Order R2-2017-0042, Attachment G), two additional documents are attached to this report:

- List of Approved Analysis (Attachment G, Provision V.C.1.f.(ii)), and
- Plan View of the WRF showing the Flow Routing, Sampling and Observation Station Locations (Attachment G, Provision V.C.1.f.(iv))

I certify under penalty of the 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. [40 CFI 122.22 (d)]

Very Truly Yours,



Donald E. Moore

Utility Operations Manager

Attachments: List of Approved Analyses
Map of Joint Wastewater Treatment Plant

Mercury Loading Calculations for 2019

Cc: Steven Rogers, Town Manager
Joe Tagliaboschi, Public Works Director
Denise Conners, Larry Walker Associates
David Gerard, CDVA

Town of Yountville

NPDES Permit No. CA0038121 (Order No. R2-2015-0029)

2019 Mercury Loading Calculations

Discharger:	Town of Yountville		
Calendar Year Reporting:	2019	Monitoring Station:	EFF-001A

Use separate Part 2 sheets for multiple monitoring stations

Month	Sample Date ¹	Effluent Flow to Surface Waters ² (mgd)	Total Mercury Concentration (µg/L)	Average Monthly Mass Load (kg/mo)
		Enter the effluent flow for only the days when mercury was sampled.	Only fill in boxes for month(s) sampled. Indicate "no data" for month(s) not sampled.	
Jan	1/10/19	0.828	0.0043	0.00041
Feb	Sampling not required		no data	
Mar	Sampling not required		no data	
Apr	4/4/19	0.580	0.0030	0.00020
May	No discharge		no data	
Jun	No discharge		no data	
Jul	No discharge		no data	
Aug	No discharge		no data	
Sep	No discharge		no data	
Oct	No discharge		no data	
Nov	No discharge		no data	
Dec	No discharge		no data	
Total Mass (sum)				0.00061
Weighted Annual Mass Emission				0.00051
Average			0.0037	0.00031

¹ If there is more than one sample in a month at the same station, report flows and concentrations for all sample days above (insert rows for this purpose), and calculate average monthly mass load in accordance with the methodology described in the Mercury Watershed Permit, Section III, Effluent Limitations III.

² Only effluent flows to surface waters should be shown, so that recycled water applied to land (such as for irrigation) is not counted toward the total annual mass load (since it is not entering the Bay).

Yountville Mercury Limits:

Weekly Average	0.072 ug/L
Monthly Average	0.066 ug/L
Annual Loading	0.040 kg/yr

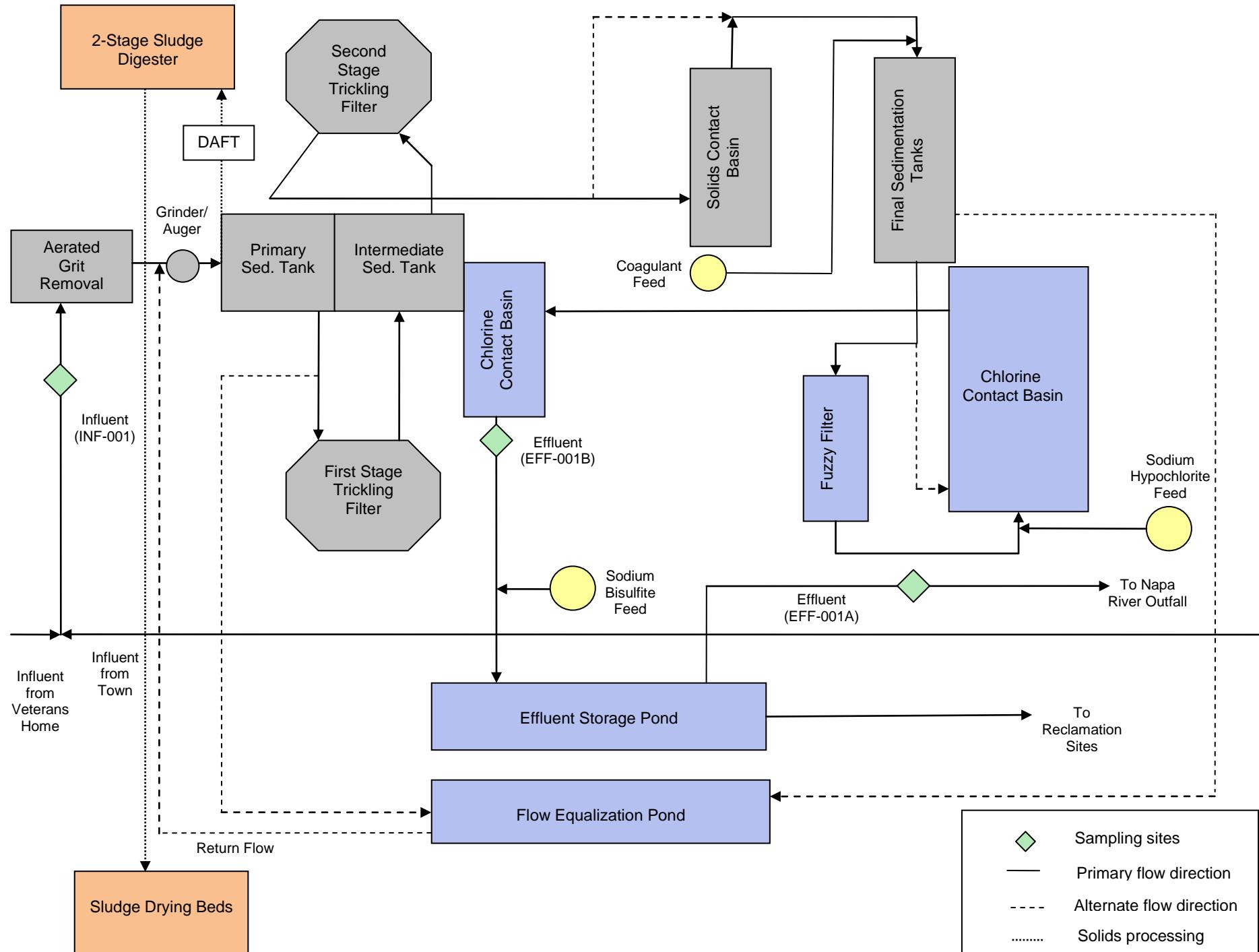
Comments on data:

Additional information/data/comments should be provided for the following situations (feel free to show your information/data/computations in a separate Spreadsheet within this Workbook under a new tab created for that purpose):

1. Dischargers claiming an effluent credit for recycled wastewater use by industrial dischargers pursuant to Provision V.C.5 of the Mercury Watershed Permit must indicate the credit(s) that will be applied to the mass loads listed above, and show the credit calculation and basis in the section below (use additional sheets if necessary).
2. Agencies that discharge flow to surface waters for only part of the year (such as agencies in the North Bay that don't discharge to surface waters for several months of the year), where the situation is more complicated than the above table.
3. Other information/data/comments that you feel should be included, especially if your situation seems to have special circumstances or is more complicated than this form is set up for.

The Town of Yountville is considered a "seasonal discharger" and is only allowed to discharge treated effluent when there is dilution of at least 45:1 Napa River flow to Yountville effluent. Mercury sampling is required quarterly while discharging. During calendar year 2019, the Town of Yountville discharged to surface waters for a total of 102 days during the months of January through April. Mercury samples were collected quarterly, in January and again in April. The total mass load was normalized for a "Weighted Annual Mass Emission" as follows:

$$\text{Weighted Annual Emission} = ((0.00061)/(30.5*4))*102 = 0.00051 \text{ kg}$$



Town of Yountville List of Approved Analyses

Caltest Analytical Laboratory (ELAP Certificate No. 1664, NELAP Accreditation 01103CA)

Turbidity
Chlorine Residual
pH
Dissolved Oxygen
Temperature
Total Coliform
BOD
TSS
Ammonia
Oil and Grease
Mercury (EPA 1631)
Volatile Organics (EPA 624)
Semivolatile Organics (EPA 625)
Chlorinated Pesticides (EPA 608)
PCBs (EPA 608)
Hardness by titration
Total Phosphate
Metals by 200.8 Collision Mode
Cyanide
Total Kjeldahl Nitrogen
Nitrate+Nitrite
Paint Filter Test (Dried Sludge)

Sub Contracted:

Vista Analytical (ELAP Certificate No. 2892)

Dioxin (EPA 1613)
PCBs (EPA 1668C)

Pacific Eco Risk (ELAP Certification No. 2085, NELAP Accreditation 04225CA)

Bioassay (Acute Toxicity)