

**CITY OF SPARTA
PUBLIC WORKS AGENDA
August 4, 2020**

CITY HALL

6:00 P.M.

- 1. Call Meeting to Order**
- 2. Consideration of Consent Agenda consisting of: minutes from the July 7, 2020 Meeting, Director of Public Works Report for August; Water Utility Operation and Maintenance Report for July; Wastewater Treatment Facility Operation and Maintenance Reports for June and July, 2019 Wastewater Treatment Facility Annual Report and monthly bills for the Sanitation Dept., Street Dept., and Water Utility.**
- 3. Consideration of CMAR**
- 4. Discussion/Consideration of Overload Incident and Remediation on 6/21**
- 5. Consideration of Sewer Camera Proposal**
- 6. Items for Future Consideration**
- 7. Adjourn**

A Possible Quorum of the Common Council may be in attendance at this meeting, but no action will be taken by the Council.

Posted: 8-3-2020

CITY OF SPARTA
PUBLIC WORKS MINUTES
July 7, 2020

PRESENT: Kevin Riley, Michael Zeidler, Bryan Jandt, Norm Stanek, Jim Church, Kevin Brueggeman, John Gessner

ABSENT: None

ALSO PRESENT: Mark Van Wormer, Mark Sund, Todd Fahning, Todd Hanson, Dennis Johnson, Kristen Gust, Dale Passehl, Dave Kuderer, citizens

Norm Stanek called the meeting to order at 6:00 p.m.

A motion was made by Kevin Brueggeman and seconded by Kevin Riley to approve the consent agenda consisting of the minutes of the June 2, 2020 meeting, Director of Public Works Report for July; Water Utility Operation and Maintenance Report for June, and monthly bills for the Sanitation Dept., Street Dept., and Water Utility. Motion carried 7-0.

Mark presented an ordinance change to the school zone section regarding no drop off/pick up signs on W. Division Street near Herrman Elementary School. We will need between 3-4 new signs to be placed on W. Division Street and it was recommended that Hart Road be added to the ordinance change. **A motion was made by Kevin Riley and seconded by Kevin Brueggeman to approve an ordinance change to the school zone section regarding “No drop off/Pick up” signs on W. Division Street and Hart Road near Herrman Elementary. Motion carried 7-0.**

Mark received a complaint from a resident at 706 E. Division Street regarding the sidewalk by his residence needing to be replaced. He apparently rents this house and told Mark that if he had someone fix it, he would send the City the bill. This whole area does need to be repaired and it is on our list. The Street Department is currently doing brush now and will try to get this section of sidewalk done. At this time, it is not top priority. This resident wanted to meet with the Board, but did not show up at the meeting. **A motion was made by Jim Church and seconded by Kevin Brueggeman to leave this area on the list and if the Street Department has time, they can fix a couple of sections of sidewalk in this area of E. Division Street. Motion carried 7-0.**

Dale presented the WWTP 2019 Annual Report to the Board. They did not have copies ahead of time to Dale went over the highlights and will email the report to the members. The CMAR will be reported on at next month’s meeting. No action was taken at this time.

Mark received 3 bids for the paper mill dam repair project. The lowest bidder was Lunda Construction out of Black River Falls at a bid amount of \$535,180.00. The first \$400,000 is a 50% split with the State and then the remaining amount will be funded 75% by the City and 25% by the State. So, the City’s cost will be from \$300,000 to \$350,000. After the work is complete that the DNR is requiring, any extra funds could go towards fixing the bank. **A motion**

was made by Jim Church and seconded by Kevin Brueggeman to approve the bid from Lunda Construction in the amount of \$535,180.00. Motion carried 7-0.

Monroe County sent information to Mark about a stream bank restoration project that would give us phosphorus credits. We forwarded the information to Dave Sauer and he thought it would be a great project for us to take on. It is the Coles Valley Creek and our share of the cost would be approximately \$11,830.00. **A motion was made by Jim Church and seconded by Kevin Riley to move forward with the stream bank restoration project at an estimated cost of \$11,830.00. Motion carried 7-0.**

Mark received an Authorizing Resolution for Urban Forestry Grant Program and is presenting to the Board for approval to allow him to sign and submit a grant application in behalf of the City of Sparta. This is a cost-share grant from the DNR in the amount of \$25,000 for the purpose of funding forestry projects. This application is due by October 30th. **A motion was made by Jim Church and seconded by Kevin Brueggeman to give Mark Van Wormer permission to sign any documents for the Urban Forestry Grant Program. Motion carried 7-0.**

There were no items mentioned for future consideration.

A motion was made by Jim Church and seconded by Michael Zeidler to adjourn at 6:37 p.m. Motion carried 7-0.

Respectfully submitted,

Julie Hanson
City Clerk

To: Board of Public Works
From: Mark Van Wormer, Director of Public Works
Date: August 4, 2020
Subject: Public Works August Monthly Report

Airport

SEH is working on the Airport Layout Plan and Master Plan, which is required to have for federal funding of projects at the airport. Currently working on a grant for snow removal equipment, new fuel card reader, and pavement repairs.

Project Updates

Paper Mill Dam Project

Lunda Construction was the low bidder at \$535,180 for the project. We are in the process of coordinating a pre-construction meeting and moving forward with construction.

Icecap Road Drainage Project

Gerke was the low bidder for the project at \$109,343.05. We are waiting on DNR approvals to move forward with the project. We met with the property to get easements for storm drain improvements and re-submitted our permit to the DNR for approval. We still plan on construction this fall pending approval from the DNR.

Harbor Drive Retention Pond

Gerke has excavated the retention basin and a liner has been installed. The construction is nearing completion and finalizing road repair plans.

Miscellaneous

The Street Department is cutting trees and grinding stumps, picking up brush, and other normal routine operations. Tree planting is proceeding as weather permits. Brush grinding has been completed.

City of Sparta Water Utility

Operation and Maintenance Report

July, 2020

In July we pumped 41,130,000 gallons of water compared to 40,685,000 gallons for the same period last year.

The following is a list of what the Water Utility has been working on during the month of July:

- Completed the monthly bacti samples.
- Completed the monthly fluoride sample.
- Completed the quarterly raw water samples.
- Completed the quarterly nitrate sample at site 200.
- Completed yearly TTHM and HAA5 sampling.
- Completed 20 lead and copper samples as per DNR monitoring requirements.
- Ran standby engines and generators for the monthly tests.
- I continue to work on the Budget for 2021 as time allows.
- Completed our Risk and Resilience Assessment, revised Emergency Response Plan and Certifications for each that EPA is requiring for all Water Utilities over 3300 in population.
- Our annual DNR inspection was completed on July 2nd. The inspection went very well with no major issues or concerns.
- We replaced a check valve near the wellhead at Well 9. The new one is a different style and opens and closes much smoother. The old one had been repaired numerous times over the years and it was not feasible to put any more time and money into it.
- Utility staff including myself received some training on our new AMI meter reading system.
- We are exercising main line valves throughout the distribution system.
- Mathy installed at paved driveway to Well 4. This had been gravel for many years and erosion was a problem with each heavy rainfall. This project was in the 2020 budget.
- We received a chemical delivery, from Hawkins Chemical Group at some of our well houses.
- We continue to do some Digger's Hotline locates, flushing of dead end lines, lawn work etc.
- We completed the monthly meter reading route for our large customers.

*Todd Hanson
Supervisor
Sparta Water Utility*

**CITY OF SPARTA
WASTEWATER TREATMENT FACILITY
OPERATION AND MAINTENANCE REPORT
June 2020**

1. 5S projects still in progress will be long and ongoing
 - a. Old garage on south side clear out, getting ready for pallet racking for equipment storage.
 - b. WIN911 Primary Caller software is still not working with the window 10 upgrade. The secondary dialer operates but can't be reset off site. LW Allen assessing that July 9th
 - c. Continually addressing many 5S projects around the site. Clearing out old garage, Lab, and Bld 90 garage
2. Gate/card reader system
 - a. Nearly operational, waiting on Permar parts and tweaks. But the gate itself function with the card. Training and gate card implementation should occur in mid to late July.
3. Collection System
 - a. Assessed the weekly/monthly jetting checklist and refined it to ½ the size. Removed non-problem areas that have been fixed
 - b. South Water street by Brooks excavating has serious sand intrusion, was tested with an ultra-sonic main tester called a RAT. The line is deemed an 8 from a 1-10 scale and is GOOD. Our weekly jetting over the past month has brought nothing back, so the original pipe full of sand has been all cleaned out.
 - c. The SL-RAT is a sewer line rapid assessment tool that identifies sewer main blockages from manhole to manhole via sonar. We assessed 1mile of sewer in 4 hours. At this rate we can get a hole sewer main assessment in 52/ 4hr blocks which equates to 17 weeks assuming we spend 3 days RATING. The cost via time and equipment capital costs is amazing. 15 cent /ft with the RAT and \$1/ft with the crawler. The ROI is 12-16 weeks based on the use frequency. 8hr/day 5 days /week is less than 10week ROI. This tool would allow us to better manage jetting time and consolidate our efforts to primary jetting.
 - d. Collected and holding the bids for sewer camera crawler for the August meeting
4. Receiving:
 - a. Three hauling companies express dire interest in coming to Sparta, our septage rates prevent this. I'm researching surrounding rates and getting estimated annual volumes from these haulers to have them come to Sparta. FYI, Viroqua is \$85/1000gal and LaCrosse is \$35/ 1000 gal. If septage alone dropped to \$70/1000 gal, it's estimated that we can over double the volume we bring in. Another 100K+ gallons net an extra \$5.5K and this is the low end. (Includes the \$16.67/1000gal loss on the original 100K+ gal. Word is getting out and haulers want to come here as logistics make sense. Making our prices competitive makes

good business sense. These are rough numbers; I am working with three haulers to get more definitive numbers.

- b. Having the card/gate access and cameras allows haulers to come in 24/7 opening more potential business and lucrativity for increased hauling revenue.
 - c. Valve and pump failure cause a 1500gal HSW overload to the plant on June 20th. Remediation of valving, pump, and digester piping moving forward at rocket speed now. As a result of the equipment failure 15K gal. of 24K gall was feed into the plant in <12hrs when the intended feed was 72hrs. Other equipment failures only compounded the problem with our main blower going down and Alyza still being babysat. FYI and Mulchay Shaw still working on the analyzer bugs.
5. Digester
- a. Lobe pump installed and operating, getting telemetry on pressure switch and dry suction wired in in July. Operates smoothly.
 - b. Other penn state pump is shot as the gears and house swing 4" back and forth on shaft, bears out. Pump need complete rebuild, Will run new lobe and get replaced next year.
 - c. Raw sludge installed, getting power and telemetry hooked up in July
6. Gravity Belt Thickener
- a. PLC is replaced and functioning well. A couple bugs to work out with programing on the chemical feed in the PLC but otherwise good.
 - b. Flygt pump installed and working.
7. Aeration basins
- a. #1 basin has diffusers replaced,
 - i. Needs plumbing for a more efficient water blow out.
 - ii. Working with the manufacturer and Dave Sauer on this
 - b. #2 is take down for diffuser replacement in July
 - c. #3 is scheduled to be taken down in Aug
- This will make the AS basins ready for the new blower!!!!!!!
8. South secondary clarifier is repaired and work excellent
- a. Seals replaced, metal recoated, turntable bearing/race replaced, and torque switch replaced.
9. North clarifier is down for inspection.
- a. Seals bad
 - b. Torque switch not functioning
 - c. Metal is degrading, blasting and coating required.
 - d. Concrete tank coating is flaking off and whole tank needs recoating.
 - i. Getting seals replaced so we can operate until next year for the overhaul to be perform. Presently doesn't remove solids at the same rate as the South one (seal replacement should fix that)
10. UV system
- a. Working as intended for now, will install 6 bulbs in July keeping it to around 20 of the 96 bulbs being burnt out.
11. The items below are being worked on in some capacity.

- a. Camera crawler, assessing quotes, establishing a comparison to present the council.
 - b. Diffuser replacement in Aeration #3, AS#1 and #2
 - c. VFD on large RAS pump, in DNR and quoting.
 - d. Circulation/nozzle pump for digester mixing, in DNR and quoting
 - e. And more. Roughly 12+ projects in the works. Ranging from gates, valving, calibrations, secondary overhaul, blower, AS basin diffusers, GBT pump, Dig transfer pump, etc. Most of which have failed from age and lack of upkeep and/or redundancy.
 - f. Maintenance overhaul on Raptor as we are losing a lot of nutrients to the land fill and send much heavier bags than we should. The logs/bags are twice the weight than they should be. Presently around 120+lbs and very grease laden. (Much needed carbon/nutrient source we can reclaim)
12. Plan on presenting CMAR in Aug meeting

Thank you

Dale Passehl
Sanitation/WWTP Plant Manager

**CITY OF SPARTA
WASTEWATER TREATMENT FACILITY
OPERATION AND MAINTENANCE REPORT
July 2020**

1. 5S projects still in progress will be long and ongoing
 - a. Old garage on south side is now organized and pallet racking installed. Parts and equipment getting organized.
 - b. Buildings have small storage areas for building specific parts.
2. Gate/card reader system
 - a. 99% complete and is operational. Started using in mid-July. Waiting for parts from PerMar to get remote access. Presently gate can only be open by card. Also training on the software needs to be completed from Permar.
3. Collection System
 - a. Weekly/Monthly Jetting completed. Filed form established to keep hard copy records on a daily basis and all work is inputted into the Collector ap.
 - b. Assessing and summarizing cost bids for Crawler and the SLRAT for collection assessment and maintenance tools, plan to address in Aug meeting.
4. Receiving:
 - a. Still working with haulers on getting more defined septage volumes for a septage cost assessment on additional revenue. Area municipalities are at \$74 or less per 1000gallons. I'm exploring the ability to propose a reduction to \$70-\$75/1000gallons and bring much more septage in, which we can handle and still net more revenue.
 - b. Now have 24/7 hauling ability.
 - c. Revisit: Valve and pump failure cause a 15,000gal HSW overload to the plant on June 20th. Remediation of valving, pump, and digester piping moving forward at rocket speed now. As a result of the equipment failure 15K gal. of 24K gal was feed into the plant in <12hrs when the intended feed was 72hrs.
 - i. Digester pump for blding #30 off-loading replaced- **complete**
 - ii. Receiving station 2 pump replace and allows better control with VFD- **complete**
 - iii. Valve/actuator is ordered and waiting to come in to isolated and control flow going out of the receiving station
 - iv. Flow sensor for receiving station effluent close to ordering
 - v. The 062020 Overload report written and handed in to Mark V. and Julia in the DNR. There was enough for the DNR in the DMR report, but I thought it best to better explain the incident, explain problem areas and its remediation as to not allow this to happen again.
5. Digester
 - a. Lobe pump is in operation, still waiting for telemetry on two pump sensors.

- b. Dave S. and I looking into RFP on digester circulation systems. Only pump driven. No mechanical blade mixers!
 - c. Waiting on telemetry for raw sludge
 - d. Installed two mag flow sensors on the lines going to and from the GBT.
 - i. This provide information for digester loading
6. Gravity Belt Thickener
- a. Exploring means to reduce the H2S alarms that occur nearly every startup. Presently, leaving the mixers on all the time to reduce septicity.
7. Aeration basins
- a. #2 and 3 basin has diffusers replaced,
 - b. #1 is down for maintenance.
 - c. The actuated air valve and mass air flow sensors are installed and operational. This was precursor to blower and control air more effectively with more efficient blower controls.
8. North clarifier is down for inspection.
- a. Seals bad One or two replaced.
 - b. Torque switch replaced
 - c. Need to get quotes for next year's budget for.
 - i. Metal is degrading, sand blasting and coating required.
 - ii. Concrete tank coating is flaking off and whole tank needs recoating.
9. UV system
- a. Working as intended for now, installed 6 bulbs in July, Further parts issues and in dire need to replace or rebuild.
10. The items below are being worked on in some capacity.
- a. VFD on large RAS pump, in DNR and quoting.
 - b. Front Gate
 - c. Receiving valve and flow meter
 - d. Circulation/nozzle pump for digester mixing, in DNR and quoting
 - e. Blower RFP
 - f. And more. Roughly 9 projects in the works or finishing up
 - g. Exploring options to replace Raptor for better nutrient removals and live heavy logs directly into dumpster.

Thank you

Dale Passehl
 Sanitation/WWTP Plant Manager

**CITY OF SPARTA
WASTEWATER TREATMENT FACILITY
2019 ANNUAL REPORT**

Introduction

The Sanitation Department proudly reports that the Sparta Wastewater Treatment Facility has continued to operate in compliance with all state and federal regulatory requirements in 2019. The facility treated and discharged a total of 554.89 million gallons of wastewater during the year 2019, an increase from 2018's 519.66 million gallons. We received a perfect score on our 2018 Compliance Maintenance Annual Report (CMAR) with a 4.0 grade point average. Throughout the last quarter of 2019, we strived to increase our receiving station input. We continue to receive and treat a significant amount of landfill leachates (7,804,689 gallons) up ½ million gallons from 2018, received from Monroe, Jackson and Vernon counties. In addition to leachate we received holding tank, animal processing wastes, salt brines and other industrial wastewater (2,248,406 gallons) from outside the city of Sparta; down from 2018's (2,494,092 gallons). A total of \$259,151.34 was received from outside revenue sources in 2019, up from \$258,405.21 in 2018. Steady income sources and good plant performance all helped to make 2019 another good year for the Sparta Sanitation Department.

Highlights of the Year

- The plant came under new management in Late July of 2019. An energy assessment was performed to highlight several areas in which Sparta can reduce energy expenditures within the WWTP. Measures are actively being pursued in reducing energy and increasing revenue through savings and increasing receiving wastes.
- The City submitted an Adaptive Management Plan Amendment July 9, 2019 to WDNR to convert already completed water quality trading projects and future non-point source phosphorus reduction projects into the adaptive management program. This plan was approved July 12, 2019 by WDNR and was assigned a tracking number of WQT-2019-0010. Several additional non-

point source phosphorus reduction projects were completed in 2019 by the City. These projects included stream bank restoration work on the La Crosse River, sediment removal from Perch Lake and a grade stabilization project. Additional non-point source projects will be completed in 2020 including a large storm water control basin project located adjacent to CTH BC that drains into Beaver Creek.

- We continue to track service requirements of all major plant components and equipment with our Hach WIMS Job Cal maintenance software. The Sanitation Dept. completed over 250 lubrication and preventive maintenance tasks with several being corrective/emergency tasks in the WWTP, up from 208 in 2018. There were several collection tasks were performed but not communicated effectively during the management transition. The collector app should effectively monitor that for the 2020 year.
- In Nov of 2019 we actively started utilizing the Esri GIS Collector App to electronically track all collection maintenance. We responded to several sewer calls during 2019, the exact number is not known for this year due to the transition in management. Of the calls since August, 1 of them was due to obstructions in a city sanitary sewer main. The remaining sewer calls were due to obstructions within the house lateral, which is the responsibility of the homeowner. Further note: Assessments were performed on the lift stations for telemetry. Riverwood and Theater did not have active telemetry and was corrected.
- Our sludge hauling contractor Synagro had difficulty providing timely land application due to wet and freezing weather. A1 Advanced assisted greatly in the fall to keep our tankage from over filling and preventing costly alternative removal expenses. The total amount hauled was 2,607,800 gallons of which A1 Advanced Hauling spread 1,051,800 and stored 102,000 gallons. Synagro hauled and land applied 1,454,000 gallons of liquid sludge to nearby DNR approved farm sites. Due to Synagro not being able to apply in the Fall, an extra sample analysis of solids was needed for A1 to except our solids. In 2019 the Sparta land application program had a violation of spreading on six fields without have an updated soil test of the field. Of these violations 5 were quickly remediated by Synagro as their paperwork was not submitted. One field that A1 Advance spread on was remediated by Sparta WWTP in May 2020 to get all the fields that A1 Advanced would

apply on for the City of Sparta. As of June 2020, all remediations involving soil samples have been corrected. We are currently operating in full compliance with Wisconsin's NR 204 sludge requirements which govern land application practices and sludge quality. The bio-solids (sludge) produced by the Sparta facility fits the EPA's definition of "high quality" sludge.

- We spent many hours maintaining our 52 miles of sanitary sewers throughout the year, mainly focusing on our weekly flush list (known trouble spots). During 2019 we replaced ____ feet of sanitary sewer main on Chester St.
- The Sanitation Department continued its involvement with landfill monitoring activities. We are currently sampling 5 wells at the old Angelo Landfill #39 on a semi-annual basis and we continue to haul leachate from the Sand Creek Landfill. A total of 63,000 gallons of leachate was hauled and treated in 2019, which is up from 57,750 gallons in 2018. We have hauled and treated a grand total of 5,532,913 gallons of leachate from the Sand Creek Landfill since March of 2002.

Plant Performance and Loadings

Influent flows averaged 1.404 MGD for the calendar year 2019. The design flow capacity of the WWTP is 2.20 MGD giving us ample capacity for continue residential and industrial expansions. Average plant loadings for the year were 25371 lbs. /TSS (Total Suspended Solids) and 3211 lbs. /BOD (Biochemical Oxygen Demand). The design data for TSS is 4626 lbs. / day and 6550 lbs. /day for BOD. In conclusion, the facility treated a total of 554.689 million gallons of wastewater during 2019. Provided are tables and graphs providing a summary of the plant loading and receiving station activities.

Dale Passehl
City of Sparta
WWTP Manager

City of Sparta Annual
WWTP Reporting
Loadings and Performance

2019 Effluent Flow and Concentrations

Month	Monthly Flow MG	Daily Flow MGD	BOD mg/l	TSS mg/l	NH3 mg/l	P mg/l
Jan	40.29	1.300	6	6	0.098	0.36
Feb	37.35	1.334	6	7	0.057	0.41
Mar	47.30	1.526	3	6	0.439	0.30
Apr	45.44	1.515	5	5	1.019	0.31
May	49.28	1.590	4	5		0.31
June	48.12	1.604	4	5		0.24
July	57.90	1.868	4	4		0.26
Aug	51.97	1.676	5	4		0.25
Sept	47.15	1.572	4	4		0.34
Oct	46.83	1.511	5	5		0.29
Nov	40.77	1.359	10	7	2.813	0.49
Dec	42.49	1.371	14	7	3.845	0.66
2019 Avg.	46.24	1.519	6	5	1.38	0.35

2019 Total Pounds Discharged

Jan	40.29	2016	2016	33	121
Feb	37.35	1869	2181	18	126
Mar	47.30	1183	2367	173	119
Apr	45.44	1705	2031	386	116
May	49.28	1626	1912		127
June	48.12	1686	1886		97
July	57.90	2159	1848		126
Aug	51.97	2067	1576		110
Sept	47.15	1517	1573		132
Oct	46.83	1851	2093		113
Nov	40.77	3496	2413	957	166
Dec	42.49	4912	2548	1363	232
Yearly Totals	554.89	26086	24443	2929	1585

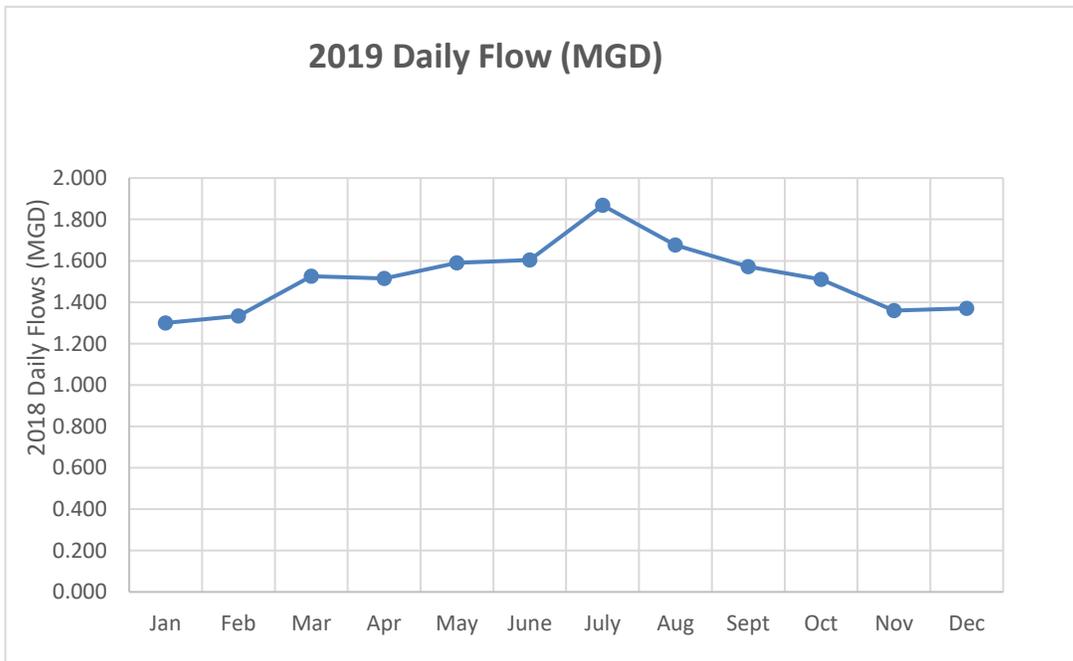
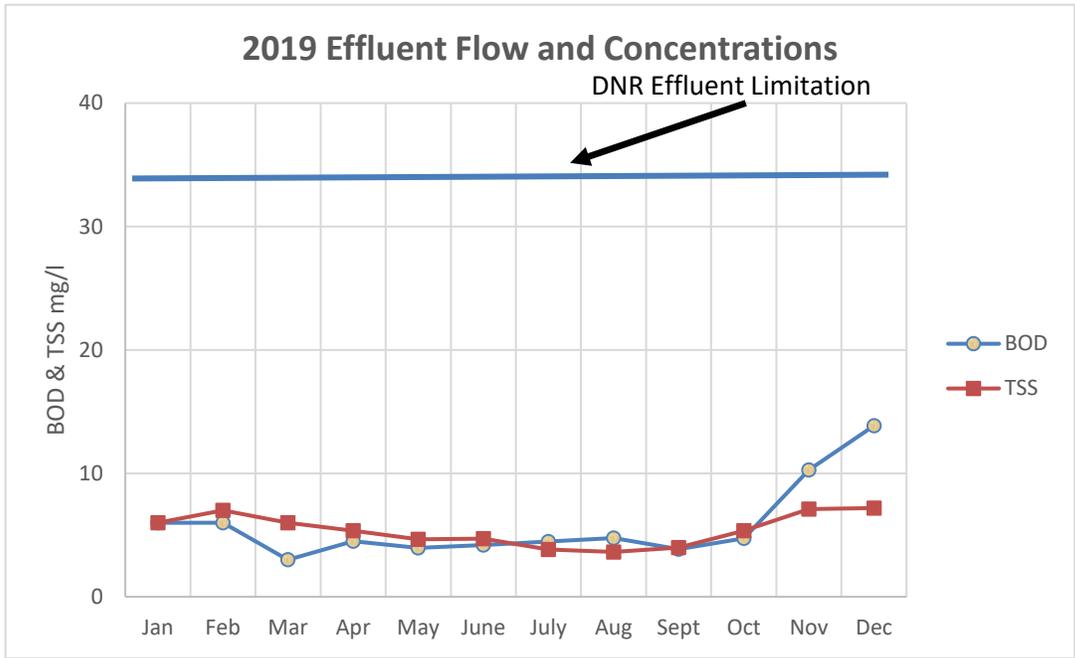
Authored: Dale Passehl
6/5/2020

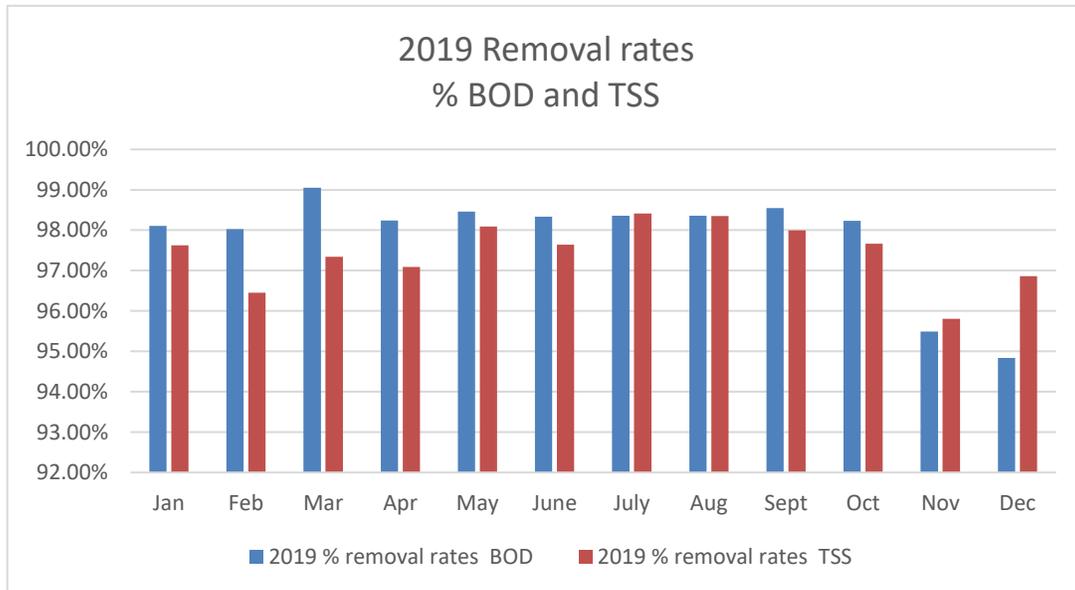
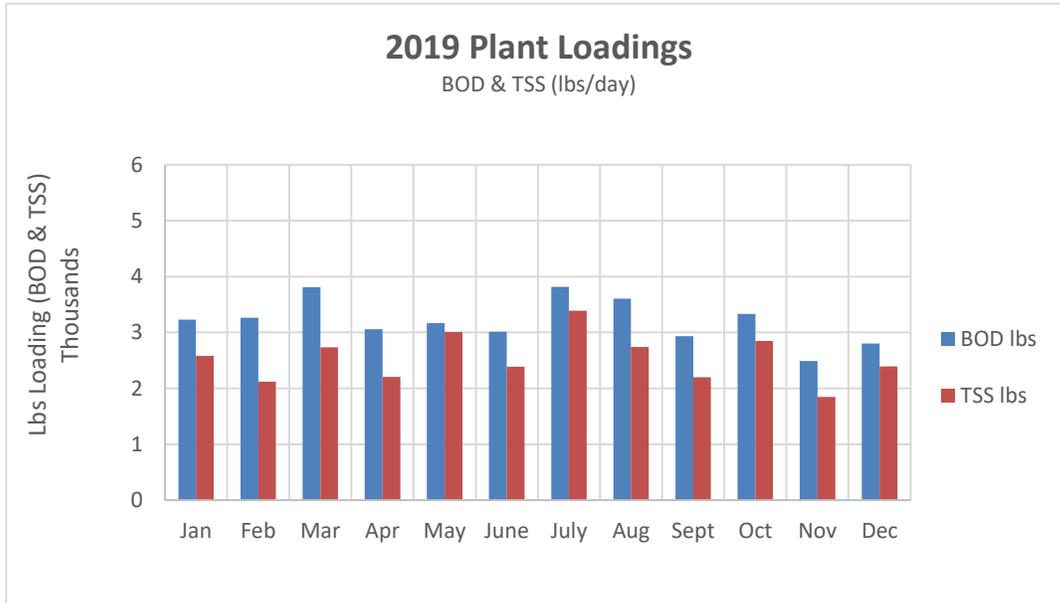
City of Sparta Annual
WWTP Reporting
Loadings and Performance

2019 Plant Loadings	Concentration (mg/l)		"Pounds Per Day		
	Flow	BOD	TSS	TSS	BOD
Jan	1.22	317	253	2579	3232
Feb	1.29	304	197	2118	3262
Mar	1.45	315	226	2734	3812
Apr	1.43	256	184	2205	3060
May	1.48	257	244	3005	3169
June	1.44	252	199	2384	3016
July	1.68	272	242	3387	3816
Aug	1.49	291	221	2739	3606
Sept	1.32	266	199	2201	2932
Oct	1.49	268	229	2848	3330
Nov	1.31	228	169	1849	2492
Dec	1.25	268	229	2393	2802
Average	1.404	275	216	2537	3211

2019 % removal rates

	BOD	TSS
Jan	98.11%	97.63%
Feb	98.03%	96.45%
Mar	99.05%	97.34%
Apr	98.24%	97.09%
May	98.46%	98.09%
June	98.33%	97.64%
July	98.36%	98.42%
Aug	98.36%	98.35%
Sept	98.55%	97.99%
Oct	98.23%	97.66%
Nov	95.49%	95.81%
Dec	94.84%	96.86%
Average	97.84%	97.45%





2019 Receiving Station Activities in Dollars

	Holding Tank	Septic Tank	Leachate	Animal Processing	Salt Brine	Wash 70	Monthly Total
Jan	\$ 303.36	\$ 43.34	\$ 12,481.97	\$ 4,290.17	\$ 767.02		\$ 17,885.86
Feb	\$ 737.78	\$ 43.34	\$ 12,436.66	\$ 3,510.14	\$ 1,131.12		\$ 17,859.04
Mar	\$ 915.82	\$ 541.69	\$ 16,896.54	\$ 6,240.24	\$ 1,610.85		\$ 26,205.14
Apr	\$ 716.02	\$ 684.70	\$ 12,959.74	\$ 6,240.24	\$ 1,285.23		\$ 21,885.93
May	\$ 1,400.37	\$ 745.36	\$ 17,666.07	\$ 1,560.06	\$ 1,312.25		\$ 22,684.11
Jun	\$ 1,242.40	\$ 2,487.43	\$ 16,413.70	\$ 390.02	\$ 755.97	\$ 555.29	\$ 21,844.81
Jul	\$ 2,660.11	\$ 823.37	\$ 19,170.25			\$ 544.19	\$ 23,197.92
Aug	\$ 2,266.91	\$ 801.70	\$ 14,305.75				\$ 17,374.36
Sep	\$ 2,266.30	\$ 1,542.73	\$ 12,318.30				\$ 16,127.33
Oct	\$ 3,502.31	\$ 1,629.40	\$ 23,630.61	\$ 1,170.05	\$ 850.41	\$ 309.28	\$ 31,092.06
Nov	\$ 1,862.43	\$ 1,317.38	\$ 14,557.32	\$ 780.03			\$ 18,517.16
Dec	\$ 4,524.81	\$ 1,300.05	\$ 17,482.71	\$ 1,170.05			\$ 24,477.62
	\$ 22,398.62	\$ 11,960.49	\$ 190,319.62	\$ 25,351.00	\$ 7,712.85	\$ 1,408.76	\$ 259,151.34

2019 Receiving Station Activities in Gallons

	Holding Tank	Septic Tank	Leachate	Animal Processing	Salt Brine	Wash 70	Monthly Total
Jan	18,680	500	504,296	49,500	47,230		620,206
Feb	45,430	500	510,536	40,500	69,650		666,616
Mar	58,668	6,250	693,618	72,000	99,190		929,726
Apr	44,090	7,900	532,009	72,000	79,140		735,139
May	86,230	8,600	725,208	18,000	80,810		918,848
Jun	76,503	28,700	673,796	4,500	46,550	7,900	837,949
Jul	103,170	9,500	786,955		60,630	7,742	967,997
Aug	91,708	9,250	587,264		47,880		736,102
Sep	94,650	1,780	505,677		44,900		647,007
Oct	158,660	18,800	970,058	13,500	66,812	4,400	1,232,230
Nov	83,182	15,200	597,591		40,500		736,473
Dec	237,321	14,000	717,681	13,500	42,300		1,024,802
	1,098,292	120,980	7,804,689	283,500	725,592	20,042	10,053,095

Receiving=

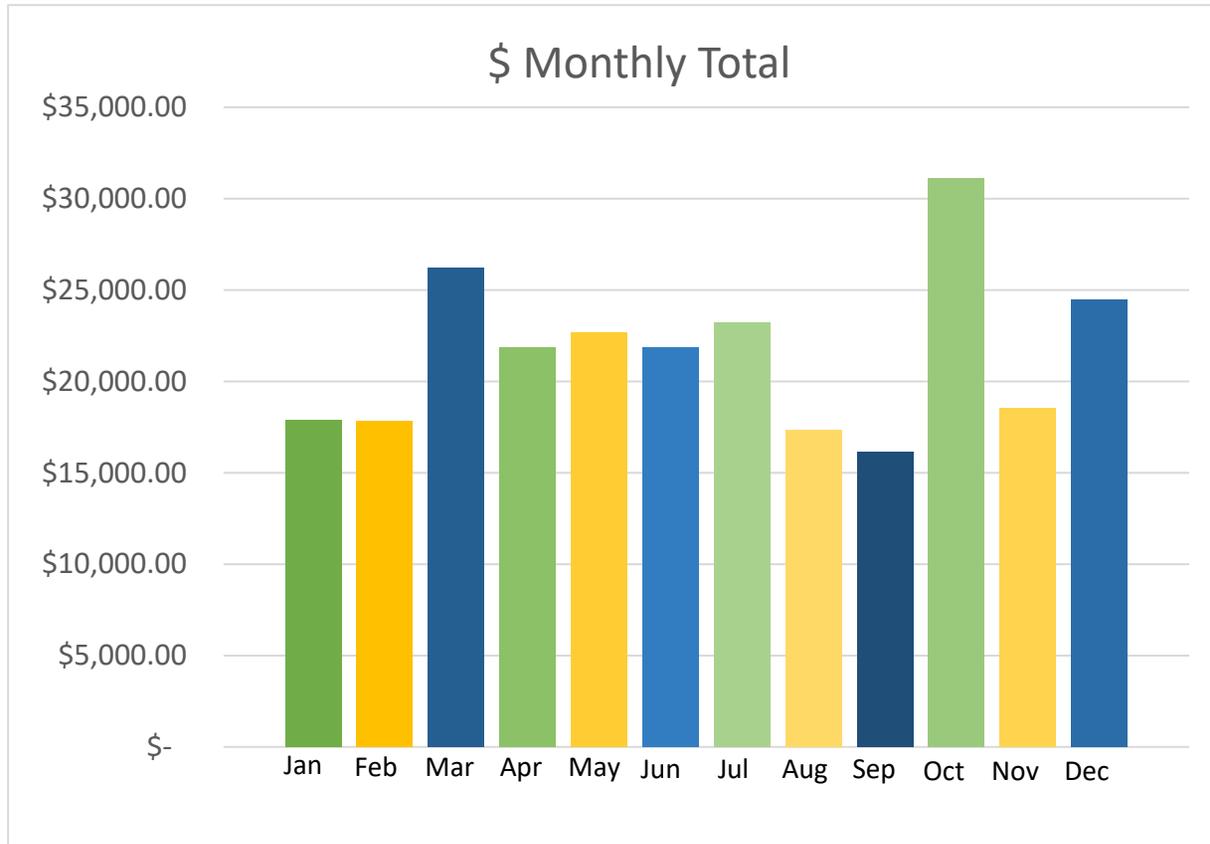
2,248,406

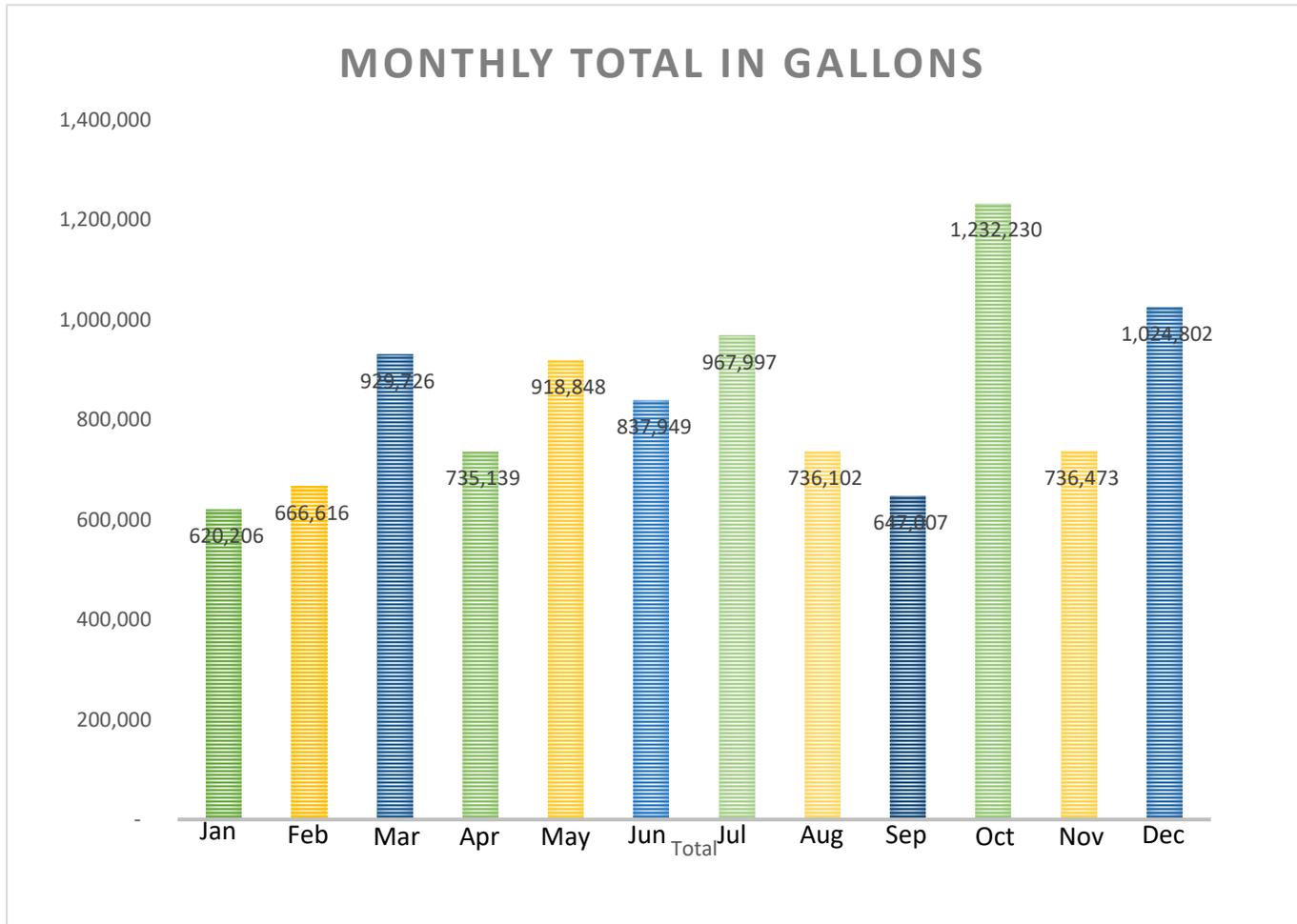
Leachate=

7,804,689

Authored: Dale Passehl
06/11/20







Authored: Dale Passehl
06/11/20

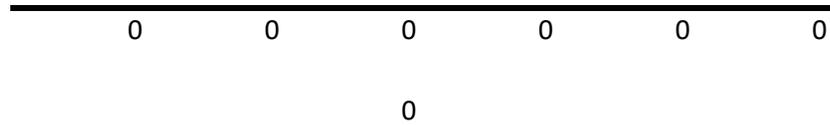
Authored: Dale Passehl
06/11/20

Holding	Septic	Leachate	Anim Pro	Brine	\$70 Waste
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0	0	0	0	0	0
		0			

Authored: Dale Passehl
06/11/20

Holding Septic Leachate Anim Pro Brine \$70Waste



Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description
123894	07/07/2020	B & B FENCE CO	700-03980	MISCELLANEOUS EQ	1051	4,998.00	Gate operator
123894	07/07/2020	B & B FENCE CO	700-03980	MISCELLANEOUS EQ	1052	5,258.00	Gate operator
123896	07/07/2020	B & M Technical Ser	700-03550	OTHER PLANT EQUIP	8115	3,746.00	GBT Touchscreen
123896	07/07/2020	B & M Technical Ser	700-03550	OTHER PLANT EQUIP	8116	4,869.00	GBT Touchscreen
123902	07/07/2020	Energenecs Inc	700-53870-340	OPERATING SUPPLIE	0040332-IN	72.00	Polyflex, belt
123903	07/07/2020	EVANS PRINT & M	700-53920-320	PUBLICATIONS/SEMIN	8952-44978	49.44	Cmera crawler replacemen
123912	07/07/2020	KWIK TRIP INC	700-53840-371	GAS/OIL	384132-6/30	188.01	GAS CHGS-June, 2020
123912	07/07/2020	KWIK TRIP INC	700-53810-223	DIESEL FUEL	384132-6/30	269.86	DIESEL CHGS-June, 2020
123913	07/07/2020	L W Allen LLC	700-53920-320	PUBLICATIONS/SEMIN	103479	672.00	Equip & Servs for SCADA t
123916	07/07/2020	Mid-American Rese	700-53860-340	OPERATING SUPPLIE	0702574-IN	490.00	Bacterial booster
123916	07/07/2020	Mid-American Rese	700-53860-340	OPERATING SUPPLIE	0702805-IN	1,807.75	Super-zyme 05
123917	07/07/2020	Midwest Chemical &	700-53820-825	SLUDGE THICKENING	6339	3,966.89	POLYMER
123921	07/07/2020	Sabel Mechanical L	700-03308	SECONDARY TREATM	20200-2	4,879.37	Evoqua clarifier parts
123921	07/07/2020	Sabel Mechanical L	700-03620	PUMP STATION EQUIP	20267	2,152.83	Receiving pipe modification
123921	07/29/2020	Sabel Mechanical L	700-03308	SECONDARY TREATM	20200-2	4,879.37-	Evoqua clarifier parts
123921	07/29/2020	Sabel Mechanical L	700-03620	PUMP STATION EQUIP	20267	2,152.83-	Receiving pipe modification
123922	07/07/2020	SJF Material Handli	700-03980	MISCELLANEOUS EQ	179208	1,105.90	Dec, Rack, teardrop
123922	07/07/2020	SJF Material Handli	700-03980	MISCELLANEOUS EQ	179209	337.00	Shipping for Pallet racking
123927	07/07/2020	WE ENERGIES	700-53860-340	OPERATING SUPPLIE	3281-326-595 6/20	10.10	GAS - Hoeschler
123927	07/07/2020	WE ENERGIES	700-53860-340	OPERATING SUPPLIE	3609-101-745 6/20	16.33	GAS - Walrath St
123927	07/07/2020	WE ENERGIES	700-53810-221	HEATING - GAS	5032-284-722 6/20	550.60	GAS - Richgruber
123927	07/07/2020	WE ENERGIES	700-53860-340	OPERATING SUPPLIE	7241-288-912 6/20	10.10	GAS - Julie Ave
123928	07/07/2020	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-8129801-9 6/20	27.95	Electric-Hanson PI
123928	07/07/2020	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-9873089-3 6/20	24.13	Electric-Hemsstock Dr
123944	07/08/2020	Verizon Wireless	700-53920-391	TELEPHONE	9857842749	48.13	Sanitation
123944	07/08/2020	Verizon Wireless	700-53830-930	MISCELLANEOUS GE	9857842749	40.01	Sewer lpad
123992	07/15/2020	Brad Olson Electric	700-03980	MISCELLANEOUS EQ	20-1701	4,954.01	Gate piping
123992	07/15/2020	Brad Olson Electric	700-03980	MISCELLANEOUS EQ	20-1703	4,793.63	Gate wiring
123993	07/15/2020	CARDMEMBER SE	700-53920-210	PROFESSIONAL SERV	6606-6/20	15.81	ADOBE SERVICES
123993	07/15/2020	CARDMEMBER SE	700-53920-210	PROFESSIONAL SERV	6606-6/20	26.38	MICROSOFT ONLINE SE
123993	07/15/2020	CARDMEMBER SE	700-53920-391	TELEPHONE	6606-6/20	126.56	Verizon/Cable, chg pad, ad
123993	07/15/2020	CARDMEMBER SE	700-53870-240	REPAIRS & MAINTENA	6606-6/20	1.84	Menards Bush PVC
123993	07/15/2020	CARDMEMBER SE	700-53920-930	MISCELLANEOUS GE	6606-6/20	14.94	Kwip Trip - cookies
123993	07/15/2020	CARDMEMBER SE	700-53920-310	OFFICE SUPPLIES	6606-6/20	33.62	Subway - meals
123993	07/15/2020	CARDMEMBER SE	700-03550	OTHER PLANT EQUIP	6606-6/20	3,727.20	PumpBiz - trash pump
123993	07/15/2020	CARDMEMBER SE	700-53920-210	PROFESSIONAL SERV	6606-6/20	9.70	Apple.com - Dale's Pers
123994	07/15/2020	Cedar Corporation	700-53920-210	PROFESSIONAL SERV	104025	3,340.15	Storm Water Control thru 6/
123994	07/15/2020	Cedar Corporation	700-53920-210	PROFESSIONAL SERV	104026	1,795.24	WASTEWATER TREATME
123994	07/15/2020	Cedar Corporation	700-53920-210	PROFESSIONAL SERV	104069	240.00	PHOSHORUS FACILITY P
123996	07/15/2020	CenturyLink	700-53860-340	OPERATING SUPPLIE	301277774 7/20	58.00	Telephone
123996	07/15/2020	CenturyLink	700-53860-340	OPERATING SUPPLIE	301283737 7/20	54.89	Telephone - 2915
123996	07/15/2020	CenturyLink	700-53920-391	TELEPHONE	301283737 7/20	239.11	Telephone -6824
124002	07/15/2020	EVANS PRINT & M	700-53920-320	PUBLICATIONS/SEMIN	44978	49.44	Proposals - camer crawler
124020	07/15/2020	Mulcahy Shaw Wate	700-53870-240	REPAIRS & MAINTENA	322596	5,077.00	REPLACEMENT RAS+WAS
124023	07/15/2020	O'REILLY AUTOMO	700-53840-240	REPAIRS & MAINTENA	2236-234056	11.80	Mufflr clamp
124024	07/15/2020	Plunkett's Pest Cont	700-53830-210	PROFESSIONAL SERV	6690351 2020	425.55	PEST CONTROL July 202
124050	07/16/2020	Davy Laboratories	700-53830-923	OUTSIDE SERVICES	20E0372	342.25	LAB-chl, Nitrogen, pH, Pho
124050	07/16/2020	Davy Laboratories	700-53830-923	OUTSIDE SERVICES	20F0034	37.50	LAB-Phosphorus
124063	07/22/2020	B & M Technical Ser	700-03370	SLUDGE TREATMENT	8092	4,900.00	Sludge pump install
124063	07/22/2020	B & M Technical Ser	700-03370	SLUDGE TREATMENT	8126	3,460.37	GB PLC cards
124063	07/22/2020	B & M Technical Ser	700-03370	SLUDGE TREATMENT	8127	4,169.94	GBT PLC Cards & power
124063	07/22/2020	B & M Technical Ser	700-03370	SLUDGE TREATMENT	8128	4,960.00	GBT Processer replaceme
124063	07/22/2020	B & M Technical Ser	700-03530	PUMP STATION EQUIP	8129	4,578.84	Receiving station pump
124063	07/22/2020	B & M Technical Ser	700-03370	SLUDGE TREATMENT	8130	3,743.49	GBT PLC ports
124063	07/22/2020	B & M Technical Ser	700-03370	SLUDGE TREATMENT	8132	4,000.00	GBT PLC programing
124063	07/22/2020	B & M Technical Ser	700-03370	SLUDGE TREATMENT	8133	4,550.00	Boerger PL 300 assembly
124063	07/22/2020	B & M Technical Ser	700-03370	SLUDGE TREATMENT	8134	3,780.00	Premium pump/sludge tran
124063	07/22/2020	B & M Technical Ser	700-03370	SLUDGE TREATMENT	8135	3,550.00	Pump sludge digester
124075	07/22/2020	Sabel Mechanical L	700-03306	PRELIMINARY TRMNT	20243	4,873.25	New line Rec #2 digester
124075	07/22/2020	Sabel Mechanical L	700-03306	PRELIMINARY TRMNT	20243-1	4,796.39	Fabricate SS piping to dige

Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description
124075	07/22/2020	Sabel Mechanical L	700-03306	PRELIMINARY TRMNT	20243-2	4,919.83	Digester parts
124075	07/22/2020	Sabel Mechanical L	700-03306	PRELIMINARY TRMNT	20243-3	4,060.53	Install SS pipe to digester
124075	07/22/2020	Sabel Mechanical L	700-03308	SECONDARY TREATM	20334	1,795.75	Torque switch 2nd Clarifier
124077	07/22/2020	SJF Material Handli	700-53830-930	MISCELLANEOUS GE	179562	339.00	Freight for pallet racking
124077	07/22/2020	SJF Material Handli	700-53830-930	MISCELLANEOUS GE	179592	420.15	Pallet racking
124081	07/22/2020	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 7/20	85.13	Electric-Walrath
124081	07/22/2020	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 7/20	25.51	Electric-Jane Dr
124081	07/22/2020	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 7/20	37.59	Electric-State Hwy 16
124081	07/22/2020	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 7/20	265.80	Electric-Hoeschler Dr
124081	07/22/2020	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 7/20	40.89	Electric-A St
124081	07/22/2020	XCEL ENERGY	700-53810-220	ELECTRIC	52-6161035-7 7/20	10,769.68	Electric-Richgruber Rd
124081	07/22/2020	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 7/20	125.99	Electric-Julie Ave
124081	07/22/2020	XCEL ENERGY	700-53860-340	OPERATING SUPPLIE	52-6161035-7 7/20	146.75	Electric-Iband
124132	07/29/2020	Hormel Foods	700-44613	INDUSTRIAL SALES	63020	694.20	Refund overpayment manu
124137	07/29/2020	Sabel Mechanical L	700-03620	PUMP STATION EQUIP	20267-1	2,152.83	Receiving pipe modification
124150	07/31/2020	All American Do It C	700-53870-340	OPERATING SUPPLIE	001-232384	80.90	Ros sandnet
124150	07/31/2020	All American Do It C	700-53870-240	REPAIRS & MAINTENA	001-232387	5.98	Clr fan bulb
124150	07/31/2020	All American Do It C	700-53870-240	REPAIRS & MAINTENA	001-233444	25.76	Casing nail, sealant, shims
124150	07/31/2020	All American Do It C	700-53870-240	REPAIRS & MAINTENA	001-233577	11.79	Grnd contact
124152	07/31/2020	B & M Technical Ser	700-01070	CONSTRUCTION WOR	8170	3,842.00	Basin 3 DO - Blower projec
124152	07/31/2020	B & M Technical Ser	700-01070	CONSTRUCTION WOR	8171	2,267.50	PLC programming - blower
124152	07/31/2020	B & M Technical Ser	700-01070	CONSTRUCTION WOR	8172	1,870.96	GBT, sludge, pump, blower
124153	07/31/2020	Band Box Cleaners	700-53830-210	PROFESSIONAL SERV	2291	78.79	Towel shop
124153	07/31/2020	Band Box Cleaners	700-53830-210	PROFESSIONAL SERV	470	68.36	TOWEL GLASS
124154	07/31/2020	Brad Olson Electric	700-01070	CONSTRUCTION WOR	20-1655	3,829.15	Sludge Storage wiring-blow
124154	07/31/2020	Brad Olson Electric	700-53860-340	OPERATING SUPPLIE	20-1733	112.25	Alternating relay-Osborne I
124158	07/31/2020	Davy Laboratories	700-53830-923	OUTSIDE SERVICES	20G0197	416.25	LAB COPPER/NITROGEN
124159	07/31/2020	E & B Scale Service	700-53830-210	PROFESSIONAL SERV	6924	216.17	Scale calibration
124161	07/31/2020	Hydrite Chemical C	700-53820-824	FERRIC CHLORIDE	02378125	4,442.66	HYDRICLEAR
124162	07/31/2020	L W Allen LLC	700-01070	CONSTRUCTION WOR	103687	3,025.00	SCADA + PLC P04 prj
124162	07/31/2020	L W Allen LLC	700-01070	CONSTRUCTION WOR	103716	19,800.00	Blower project
124167	07/31/2020	Northern Lake Servi	700-53830-923	OUTSIDE SERVICES	381674	280.10	FB WW samples
124168	07/31/2020	O'REILLY AUTOMO	700-53840-371	GAS/OIL	2236-242025	20.26	Oil filter/oil
124172	07/31/2020	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	A366685	1.39	Plast HA
124172	07/31/2020	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	A366685	.14	DISCOUNT
124172	07/31/2020	The Hardware Store	700-53840-240	REPAIRS & MAINTENA	A366693	25.98	Alum angle
124172	07/31/2020	The Hardware Store	700-53840-240	REPAIRS & MAINTENA	A366693	2.60	DISCOUNT
124172	07/31/2020	The Hardware Store	700-53840-240	REPAIRS & MAINTENA	A366724	10.98	Adapter coupling DWV
124172	07/31/2020	The Hardware Store	700-53840-240	REPAIRS & MAINTENA	A366724	1.10	DISCOUNT
124172	07/31/2020	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	A366730	3.57	Hardware
124172	07/31/2020	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	A366730	.36	DISCOUNT
124172	07/31/2020	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	A366833	1.99	Cap drain pvc
124172	07/31/2020	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	A366833	.20	DISCOUNT
124172	07/31/2020	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	B323820	32.63	Pipe cleaner, cement Multi-
124172	07/31/2020	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	B323820	3.26	DISCOUNT
124172	07/31/2020	The Hardware Store	700-53840-240	REPAIRS & MAINTENA	B324299	24.97	Plastic conduit strap, maso
124172	07/31/2020	The Hardware Store	700-53840-240	REPAIRS & MAINTENA	B324299	2.50	DISCOUNT
124172	07/31/2020	The Hardware Store	700-53870-240	REPAIRS & MAINTENA	B324423	4.23	Bushing reduc pvc
124172	07/31/2020	The Hardware Store	700-53840-240	REPAIRS & MAINTENA	B324423	.42	DISCOUNT
124173	07/31/2020	Tri State Business	700 53020 310	OFFICE SUPPLIES	404257	605.00	ImageClass MF733Cdw pri
124173	07/31/2020	Tri-State Business	700-53920-310	OFFICE SUPPLIES	494294	356.00	(4) Canon cartridges black
124174	07/31/2020	USA Blue Book	700-53830-340	OPERATING SUPPLIE	284711	368.02	Glass fiber filter
124175	07/31/2020	Walmart Community	700-53920-930	MISCELLANEOUS GE	6409	114.95	GV ult, fun pops, bounty
124175	07/31/2020	Walmart Community	700-53830-930	MISCELLANEOUS GE	6610	14.48	Face mask
124177	07/31/2020	WRIGHT'S SEPTIC	700-53870-210	PROFESSIONAL SERV	70620	270.00	Clean grease trap behind

Grand Totals:

173,481.22

Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description
123888	07/01/2020	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A365108	24.67	Plated steel round,
123888	07/01/2020	The Hardware Store	100-53240-240	REPAIRS & MAINTENA	A365108	2.47-	DISCOUNT
123888	07/01/2020	The Hardware Store	100-53240-340	OPERATING SUPPLIE	B321400	6.99	Tiedown rcht
123888	07/01/2020	The Hardware Store	100-53240-340	OPERATING SUPPLIE	B321400	.70-	DISCOUNT
123888	07/01/2020	The Hardware Store	100-53230-340	OPERATING SUPPLIE	B322144	20.99	Strip surge
123888	07/01/2020	The Hardware Store	100-53230-340	OPERATING SUPPLIE	B322144	2.10-	DISCOUNT
123888	07/01/2020	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B322796	21.96	Flat black prim
123888	07/01/2020	The Hardware Store	100-53300-340	OPERATING SUPPLIE	B322796	2.20-	DISCOUNT
123888	07/01/2020	The Hardware Store	100-53310-340	OPERATING SUPPLIE	B322998	23.79	HARDWARE, nut ic
123888	07/01/2020	The Hardware Store	100-53310-340	OPERATING SUPPLIE	B322998	2.38-	DISCOUNT
123889	07/01/2020	WALMART COMMU	100-53230-340	OPERATING SUPPLIE	05059	39.94	PH Surge
123912	07/07/2020	KWIK TRIP INC	100-53240-371	GAS/OIL	319405-6/30	2,120.46	GAS - Streets - Jun
123914	07/07/2020	MACQUEEN EQUI	100-53240-240	REPAIRS & MAINTENA	P14580	378.28	Cap-vented breather
123914	07/07/2020	MACQUEEN EQUI	100-53240-240	REPAIRS & MAINTENA	P14604	569.33	AY-Water Manifold
123927	07/07/2020	WE ENERGIES	100-53230-221	HEATING - GAS	2463-120-696 6/20	29.87	GAS - 1234 S Water
123928	07/07/2020	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-6161034-6 6/20	19.48	Electric - Lights
123928	07/07/2020	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-6161038-0 6/20	18.70	Electric-401 Century
123928	07/07/2020	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-6161038-0 6/20	41.02	Electric-101 W Fran
123928	07/07/2020	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-6161038-0 6/20	68.87	Electric-1302 W Wis
123928	07/07/2020	XCEL ENERGY	100-53510-220	ELECTRIC	52-6161038-0 6/20	245.02	Electric-12040 Cty
123928	07/07/2020	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-6161038-0 6/20	41.79	Electric-601 Alpine
123928	07/07/2020	XCEL ENERGY	100-53230-220	ELECTRIC	52-6161038-0 6/20	188.26	Electric-1234 S Wat
123928	07/07/2020	XCEL ENERGY	100-53510-220	ELECTRIC	52-6161038-0 6/20	80.67	Electric-Airport Bldg
123928	07/07/2020	XCEL ENERGY	100-53510-220	ELECTRIC	52-6161038-0 6/20	39.29	Electric-Airport Bldg
123928	07/07/2020	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-6161038-0 6/20	35.44	Electric-1015 S Blac
123928	07/07/2020	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-6161038-0 6/20	21.21	Electric-803 S Black
123928	07/07/2020	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-6161038-0 6/20	29.09	Electric-802 W Wisc
123928	07/07/2020	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-6161038-0 6/20	7,714.27	Electric-Auto prot lgt
123928	07/07/2020	XCEL ENERGY	100-53510-220	ELECTRIC	52-6334618-9 6/20	38.42	Electric-Airport Bldg
123928	07/07/2020	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-8821676-4 6/20	40.04	Electric-Traf Sgnl 20
123928	07/07/2020	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-8821940-5 6/20	261.63	Electric-109 N Wate
123928	07/07/2020	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-8821941-6 6/20	52.43	Electric-Traf Sgnl 51
123928	07/07/2020	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-9213733-6 6/20	121.69	Electric-116 W Main
123929	07/08/2020	AT & T MOBILITY	100-53230-391	TELEPHONE	287295170288X070	113.03	Servs July, 2020 Str
123930	07/08/2020	BRENNEN FOR	100-53240-240	REPAIRS & MAINTENA	38626	34.76	Sensor Exhau
123933	07/08/2020	CROELL INC	100-53430-340	OPERATING SUPPLIE	445802	670.00	4000 PSI-Spring &
123933	07/08/2020	CROELL INC	100-53430-340	OPERATING SUPPLIE	445802	100.00-	DISCOUNT
123933	07/08/2020	CROELL INC	100-53430-340	OPERATING SUPPLIE	446158	140.00	4000 PSI Water & M
123933	07/08/2020	CROELL INC	100-53430-340	OPERATING SUPPLIE	446158	20.00-	DISCOUNT
123935	07/08/2020	Gerke Excavating In	100-53440-340	OPERATING SUPPLIE	41033	1,891.25	Clean drainage ditc
123941	07/08/2020	SPARTA COOPERA	100-53240-371	GAS/OIL	5127-6/30	150.60	Diesel-June, 2020
123944	07/08/2020	Verizon Wireless	100-53100-391	TELEPHONE	9857842749	48.13	DPW
123944	07/08/2020	Verizon Wireless	100-53230-391	TELEPHONE	9857842749	38.01	Streets lpad
123996	07/15/2020	CenturyLink	100-53510-391	TELEPHONE	301280811 7/20	174.68	TELEPHONE - Airp
124000	07/15/2020	DeBauche Truck &	100-53240-240	REPAIRS & MAINTENA	DEB-5055349	28.58	Plug, drain cock ass
124012	07/15/2020	JOHN DEERE FINA	100-53330-340	OPERATING SUPPLIE	1901585	92.44	Padlock lock, passin
124013	07/15/2020	KENWORTHY'S TR	100-53240-240	REPAIRS & MAINTENA	056261	400.00	Dump truck 153
124018	07/15/2020	MODERN DISPOS	100-53620-000	GARBAGE & REFUSE	71520	17,608.92	GARBAGE & REFU
124029	07/15/2020	SHERWIN WILLIAM	100-53340-340	OPERATING SUPPLIE	8641-9	255.60	HL 2320 & 21 WH &
124066	07/22/2020	CENTURYLINK	100-53230-391	TELEPHONE	1495238982	188.91	Streets - July, 2020
124068	07/22/2020	CROELL INC	100-53460-340	OPERATING SUPPLIE	450763	140.00	4000 PSI-Water St
124068	07/22/2020	CROELL INC	100-53460-340	OPERATING SUPPLIE	450763	20.00-	DISCOUNT
124070	07/22/2020	EMERGENCY COM	100-53100-325	SAFETY PROGRAM	3162	2,809.77	Siren service
124072	07/22/2020	Gerke Excavating In	100-53440-340	OPERATING SUPPLIE	42175	286.50	Clean drainage ditc
124073	07/22/2020	Hagen's Sales & Se	100-53330-340	OPERATING SUPPLIE	54802	35.95	32" 404 chain
124073	07/22/2020	Hagen's Sales & Se	100-53330-340	OPERATING SUPPLIE	54850	14.00	Chain sharpens
124073	07/22/2020	Hagen's Sales & Se	100-53330-340	OPERATING SUPPLIE	54885	36.99	BAR OIL

Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description
124073	07/22/2020	Hagen's Sales & Se	100-53330-340	OPERATING SUPPLIE	54886	84.90	20" bar, chain, sharp
124073	07/22/2020	Hagen's Sales & Se	100-53330-340	OPERATING SUPPLIE	54896	8.45	Spark plug, air filter
124073	07/22/2020	Hagen's Sales & Se	100-53330-340	OPERATING SUPPLIE	54907	10.25	Air filter, spark plug
124081	07/22/2020	XCEL ENERGY	100-53510-220	ELECTRIC	52-0793737-9 7/20	40.02	Electric- Airport Unit
124081	07/22/2020	XCEL ENERGY	100-53420-000	STREETE LIGHTING	52-7351573-2 7/20	34.26	Electric-318 S Chest
124082	07/24/2020	B. Anderson Excava	100-53300-340	OPERATING SUPPLIE	9267	2,719.92	GRAVEL-2 LOADS
124097	07/24/2020	TITAN MACHINERY	100-53330-340	OPERATING SUPPLIE	14221494 GP	198.68	Seal, cap, bearings,
124126	07/29/2020	CROELL INC	100-53460-340	OPERATING SUPPLIE	451514	465.00	4000 PSI-Water St
124126	07/29/2020	CROELL INC	100-53460-340	OPERATING SUPPLIE	451514	70.00-	DISCOUNT
124126	07/29/2020	CROELL INC	100-53440-340	OPERATING SUPPLIE	452729	140.00	4000 PSI-Walrath &
124126	07/29/2020	CROELL INC	100-53460-340	OPERATING SUPPLIE	452729	20.00-	DISCOUNT
124129	07/29/2020	Gerke Excavating In	100-53440-340	OPERATING SUPPLIE	41131	9,273.00	REPlace Storm man
124134	07/29/2020	MISSISSIPPI WELD	100-53240-240	REPAIRS & MAINTENA	3276099	346.97	ANNUAL INSPECTI
124144	07/29/2020	Viking Electric Suppl	100-53300-340	OPERATING SUPPLIE	S003791358.001	31.32	Stem Mnt photocell,
124144	07/29/2020	Viking Electric Suppl	100-53300-340	OPERATING SUPPLIE	S003791358.002	19.88	Int-Mat K4500 shorti
124149	07/29/2020	ZIMMER, ROBERT	402-54020-541	TREE PROGRAM	1946	2,187.50	TREES FOR CITY
124155	07/31/2020	BUSCH SYSTEMS I	100-53620-000	GARBAGE & REFUSE	IN20-003127	4,135.00	RECYCLE BINS
124165	07/31/2020	MODERN DISPOS	100-53620-000	GARBAGE & REFUSE	AUG 1	17,608.92	GARBAGE & REFU

Grand Totals:

74,515.94

Check Number	Check Issue Date	Vendor Name	Invoice GL Account	Invoice GL Account Title	Invoice Number	Amount	Description
123905	07/07/2020	First Supply LLC	600-53600-633	MAINTENANCE OF PU	12251307-00	20.10	Ring gskt
123919	07/07/2020	MSA PROFESSION	600-53920-923	OUTSIDE SERVICES	R00051048.0-18	2,265.13	ArcGIS servs 5/3-6/20
123927	07/07/2020	WE ENERGIES	600-53600-623	FUEL & POWER PURC	0072-378-771 6/20	13.92	GAS - Stannard Dr
123927	07/07/2020	WE ENERGIES	600-53600-623	FUEL & POWER PURC	1265-324-026 6/20	21.18	GAS - Icecap Rd
123927	07/07/2020	WE ENERGIES	600-53600-623	FUEL & POWER PURC	1494-782-965 6/20	29.87	GAS - Riley Rd
123927	07/07/2020	WE ENERGIES	600-53600-623	FUEL & POWER PURC	3691-118-861 6/20	19.24	GAS - Tower
123927	07/07/2020	WE ENERGIES	600-53920-933	TRANSPORTATION	4203-487-249 6/20	9.57	GAS - N Chester Bldg Nth
123927	07/07/2020	WE ENERGIES	600-53920-933	TRANSPORTATION	8027-738-976 6/20	9.57	GAS - N Chester St Bldg S
123928	07/07/2020	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-6161036-8 6/20	604.40	Electric-101 Pumping
123928	07/07/2020	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-6161036-8 6/20	732.26	Electric-103 Pumping
123928	07/07/2020	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-6161036-8 6/20	36.48	Electric-Avon Rd
123928	07/07/2020	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-6161036-8 6/20	1,355.79	Electric-104 Pumping
123928	07/07/2020	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-6161036-8 6/20	922.68	Electric-N Chester
123928	07/07/2020	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-6161036-8 6/20	1,881.43	Electric-Standard Dr
123929	07/08/2020	AT & T MOBILITY	600-53650-686	MAINTENANCE OF ME	287298369319X070	27.00	AMI System-July, 2020
123938	07/08/2020	OCV CONTROL VA	600-53600-633	MAINTENANCE OF PU	230498	775.94	KIT, Seat plate
123944	07/08/2020	Verizon Wireless	600-53650-665	MISC EXPENSES TRA	9857842749	120.03	Water Jetpack & tablets
123946	07/08/2020	WI State Lab of Hyg	600-53630-642	OPERATION LABOR &	638541	26.00	SAMPLE - Fluoride
123965	07/10/2020	SPARTA COOPERA	600-53920-933	TRANSPORTATION	5128-6/20	466.88	Gas chgs - June, 2020
123965	07/10/2020	SPARTA COOPERA	600-53630-643	MISC EXPENSES WAT	5128-6/20	32.50	Buccaneer plus
123968	07/10/2020	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-8090251-0 7/20	245.76	Electric-Icecap Rd
123968	07/10/2020	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-8327905-4 7/20	2,876.64	Electric-2050 Riley
123968	07/10/2020	XCEL ENERGY	600-53600-623	FUEL & POWER PURC	52-8327905-4 7/20	45.95	Electric-3185 Riley Rd
123992	07/15/2020	Brad Olson Electric	600-53630-643	MISC EXPENSES WAT	20-1702	164.58	W #7 Chemical pump valve
123996	07/15/2020	CenturyLink	600-53600-626	MISC EXPENSES PUM	301282035 7/20	226.82	TELEPHONE - 4334
124012	07/15/2020	JOHN DEERE FINA	600-53600-626	MISC EXPENSES PUM	1888862	20.54	Screw driver, sealant
124012	07/15/2020	JOHN DEERE FINA	600-53600-626	MISC EXPENSES PUM	1894236	821.36	Kombi motor, grass attach
124012	07/15/2020	JOHN DEERE FINA	600-53600-626	MISC EXPENSES PUM	1897008	48.95	Rivets, rivet tool
124012	07/15/2020	JOHN DEERE FINA	600-53920-933	TRANSPORTATION	1904350	12.99	Refrigerant
124012	07/15/2020	JOHN DEERE FINA	600-53920-933	TRANSPORTATION	1904734	2.99	Self-seal adaptor
124076	07/22/2020	SHERWIN WILLIAM	600-53650-687	MAINTENANCE OF HY	4422-2	324.36	Paid - red
124151	07/31/2020	Auto Value Parts St	600-53600-626	MISC EXPENSES PUM	525094973	53.99	Adj Cplr
124156	07/31/2020	CLEAN WATER TE	600-53630-642	OPERATION LABOR &	0178798-IN	21.00	LAB Nitrate Nitrogen
124156	07/31/2020	CLEAN WATER TE	600-53630-642	OPERATION LABOR &	0178873-IN	336.00	LAB-COLIFORM & E-COLI
124156	07/31/2020	CLEAN WATER TE	600-53630-642	OPERATION LABOR &	0180045-IN	432.00	LAB-COpper
124156	07/31/2020	CLEAN WATER TE	600-53630-642	OPERATION LABOR &	0180076-IN	48.00	LAB-Lead & copper
124156	07/31/2020	CLEAN WATER TE	600-53630-642	OPERATION LABOR &	0180390-IN	70.00	LAB-Trihalomethanes
124157	07/31/2020	Core & Main LP	600-53650-687	MAINTENANCE OF HY	M554521	1,710.00	RADon 5ft hydrafinder
124160	07/31/2020	Hawkins Inc	600-53630-641	CHEMICALS	4751788	759.00	Sodium Hydroxide
124162	07/31/2020	L W Allen LLC	600-53600-633	MAINTENANCE OF PU	103688	573.75	CRP logic & update
124163	07/31/2020	Mathy Construction	600-53630-651	MAINT. STRUCTURE &	5200018141	13,250.00	Pre & pave Drive to wellho
124164	07/31/2020	Mid-American Rese	600-53650-665	MISC EXPENSES TRA	0703960-IN	244.00	DISInfectant wipes
124172	07/31/2020	The Hardware Store	600-53600-626	MISC EXPENSES PUM	A366996	41.02	HARDWARE
124172	07/31/2020	The Hardware Store	600-53600-626	MISC EXPENSES PUM	A366996	4.10-	DISCOUNT
124172	07/31/2020	The Hardware Store	600-53600-626	MISC EXPENSES PUM	B323818	29.98	Battery rechrg
124172	07/31/2020	The Hardware Store	600-53600-626	MISC EXPENSES PUM	B323818	3.00-	DISCOUNT
124172	07/31/2020	The Hardware Store	600-53600-626	MISC EXPENSES PUM	B324063	3.49	Nipple
124172	07/31/2020	The Hardware Store	600-53600-626	MISC EXPENSES PUM	B324063	.35-	DISCOUNT
124172	07/31/2020	The Hardware Store	600-53600-626	MISC EXPENSES PUM	B324715	6.98	Metal Y hose conn, washer
124172	07/31/2020	The Hardware Store	600-53600-626	MISC EXPENSES PUM	B324715	.70-	DISCOUNT
124174	07/31/2020	USA Blue Book	600-53630-641	CHEMICALS	285231	388.28	Seconardy Standards flouri
124174	07/31/2020	USA Blue Book	600-53600-633	MAINTENANCE OF PU	296484	2,373.09	Val-matic AWWA lever
124174	07/31/2020	USA Blue Book	600-53630-643	MISC EXPENSES WAT	29789	599.84	HACH Fluoride pocket II
124174	07/31/2020	USA Blue Book	600-53630-641	CHEMICALS	34296	171.56	pH buffer
124174	07/31/2020	USA Blue Book	600-53630-643	MISC EXPENSES WAT	34296	10.73	Disp wipes
124174	07/31/2020	USA Blue Book	600-53650-665	MISC EXPENSES TRA	34296	290.42	Wipes/masks
124176	07/31/2020	Water Well Solution	600-53600-633	MAINTENANCE OF PU	512764	39,535.00	Well 2 pump repair, rehab

Grand Totals:

75,100.89

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Sparta Wastewater Treatment Facility

Last Updated: Reporting For:
7/16/2020 **2019**

Influent Flow and Loading

1. Monthly Average Flows and BOD Loadings

1.1 Verify the following monthly flows and BOD loadings to your facility.

Influent No. 703	Influent Monthly Average Flow, MGD	x	Influent Monthly Average BOD Concentration mg/L	x	8.34	=	Influent Monthly Average BOD Loading, lbs/day
January	1.2225	x	317	x	8.34	=	3,236
February	1.2868	x	304	x	8.34	=	3,262
March	1.4510	x	315	x	8.34	=	3,812
April	1.4338	x	256	x	8.34	=	3,060
May	1.4768	x	257	x	8.34	=	3,169
June	1.4367	x	252	x	8.34	=	3,016
July	1.6816	x	272	x	8.34	=	3,816
August	1.4869	x	291	x	8.34	=	3,606
September	1.3231	x	266	x	8.34	=	2,932
October	1.4901	x	268	x	8.34	=	3,330
November	1.3095	x	228	x	8.34	=	2,492
December	1.2582	x	268	x	8.34	=	2,813

2. Maximum Monthly Design Flow and Design BOD Loading

2.1 Verify the design flow and loading for your facility.

Design	Design Factor	x	%	=	% of Design
Max Month Design Flow, MGD	2.75	x	90	=	2.475
		x	100	=	2.75
Design BOD, lbs/day	6550	x	90	=	5895
		x	100	=	6550

2.2 Verify the number of times the flow and BOD exceeded 90% or 100% of design, points earned, and score:

	Months of Influent	Number of times flow was greater than 90% of	Number of times flow was greater than 100% of	Number of times BOD was greater than 90% of design	Number of times BOD was greater than 100% of design
January	1	0	0	0	0
February	1	0	0	0	0
March	1	0	0	0	0
April	1	0	0	0	0
May	1	0	0	0	0
June	1	0	0	0	0
July	1	0	0	0	0
August	1	0	0	0	0
September	1	0	0	0	0
October	1	0	0	0	0
November	1	0	0	0	0
December	1	0	0	0	0
Points per each		2	1	3	2
Exceedances		0	0	0	0
Points		0	0	0	0
Total Number of Points					0

0

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Sparta Wastewater Treatment Facility

Last Updated: Reporting For:
7/16/2020 **2019**

3. Flow Meter

3.1 Was the influent flow meter calibrated in the last year?
 Yes Enter last calibration date (MM/DD/YYYY)

No

If No, please explain:

4. Sewer Use Ordinance

4.1 Did your community have a sewer use ordinance that limited or prohibited the discharge of excessive conventional pollutants ((C)BOD, SS, or pH) or toxic substances to the sewer from industries, commercial users, hauled waste, or residences?

Yes

No

If No, please explain:

4.2 Was it necessary to enforce the ordinance?

Yes

No

If Yes, please explain:

5. Septage Receiving

5.1 Did you have requests to receive septage at your facility?

Septic Tanks	Holding Tanks	Grease Traps
--------------	---------------	--------------

Yes

Yes

Yes

No

No

No

5.2 Did you receive septage at your facility? If yes, indicate volume in gallons.

Septic Tanks

Yes gallons

No

Holding Tanks

Yes gallons

No

Grease Traps

Yes gallons

No

5.2.1 If yes to any of the above, please explain if plant performance is affected when receiving any of these wastes.

6. Pretreatment

6.1 Did your facility experience operational problems, permit violations, biosolids quality concerns, or hazardous situations in the sewer system or treatment plant that were attributable to commercial or industrial discharges in the last year?

Yes

No

If yes, describe the situation and your community's response.

6.2 Did your facility accept hauled industrial wastes, landfill leachate, etc.?

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<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>If yes, describe the types of wastes received and any procedures or other restrictions that were in place to protect the facility from the discharge of hauled industrial wastes.</p> <p>Leachate from landfills</p>	
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Total Points Generated	
Score (100 - Total Points Generated)	
Section Grade	

Compliance Maintenance Annual Report

Sparta Wastewater Treatment Facility

Last Updated: Reporting For:
7/16/2020 **2019**

Effluent Quality and Plant Performance (BOD/CBOD)

1. Effluent (C)BOD Results

1.1 Verify the following monthly average effluent values, exceedances, and points for BOD or CBOD

Outfall No. 001	Monthly Average Limit (mg/L)	90% of Permit Limit > 10 (mg/L)	Effluent Monthly Average (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance	90% Permit Limit Exceedance
January	30	27	6	1	0	0
February	30	27	6	1	0	0
March	30	27	7	1	0	0
April	30	27	5	1	0	0
May	30	27	4	1	0	0
June	30	27	4	1	0	0
July	30	27	4	1	0	0
August	30	27	5	1	0	0
September	30	27	4	1	0	0
October	30	27	5	1	0	0
November	30	27	10	1	0	0
December	30	27	14	1	0	0

* Equals limit if limit is <= 10

Months of discharge/yr	12		
Points per each exceedance with 12 months of discharge		7	3
Exceedances		0	0
Points		0	0
Total number of points			0

NOTE: For systems that discharge intermittently to state waters, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge. Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is $12/6 = 2.0$

1.2 If any violations occurred, what action was taken to regain compliance?

None needed

2. Flow Meter Calibration

2.1 Was the effluent flow meter calibrated in the last year?

- Yes

Enter last calibration date (MM/DD/YYYY)

2019-11-15

- No

If No, please explain:

3. Treatment Problems

3.1 What problems, if any, were experienced over the last year that threatened treatment?

Trickle Filters are down, one aeration blower seized, the other two are badly worn and need replacing. mainly mechanical issues in a plant that needs automation and updating as pumps fail frequently and valves leak.

4. Other Monitoring and Limits

4.1 At any time in the past year was there an exceedance of a permit limit for any other pollutants such as chlorides, pH, residual chlorine, fecal coliform, or metals?

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Last Updated: Reporting For:
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<p><input type="radio"/> Yes <input checked="" type="radio"/> No If Yes, please explain: <input type="text"/></p> <p>4.2 At any time in the past year was there a failure of an effluent acute or chronic whole effluent toxicity (WET) test? <input type="radio"/> Yes <input checked="" type="radio"/> No If Yes, please explain: <input type="text"/></p> <p>4.3 If the biomonitoring (WET) test did not pass, were steps taken to identify and/or reduce source(s) of toxicity? <input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A Please explain unless not applicable: <input type="text"/></p>	
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Total Points Generated	
Score (100 - Total Points Generated)	
Section Grade	

Compliance Maintenance Annual Report

Sparta Wastewater Treatment Facility

Last Updated: Reporting For:
7/16/2020 **2019**

Effluent Quality and Plant Performance (Total Suspended Solids)

1. Effluent Total Suspended Solids Results

1.1 Verify the following monthly average effluent values, exceedances, and points for TSS:

Outfall No. 001	Monthly Average Limit (mg/L)	90% of Permit Limit >10 (mg/L)	Effluent Monthly Average (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance	90% Permit Limit Exceedance
January	30	27	6	1	0	0
February	30	27	7	1	0	0
March	30	27	6	1	0	0
April	30	27	5	1	0	0
May	30	27	5	1	0	0
June	30	27	5	1	0	0
July	30	27	4	1	0	0
August	30	27	4	1	0	0
September	30	27	4	1	0	0
October	30	27	5	1	0	0
November	30	27	7	1	0	0
December	30	27	7	1	0	0

* Equals limit if limit is <= 10

Months of Discharge/yr	12		
Points per each exceedance with 12 months of discharge:	7	3	
Exceedances	0	0	
Points	0	0	
Total Number of Points			

NOTE: For systems that discharge intermittently to state waters, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge.

Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is $12/6 = 2.0$

1.2 If any violations occurred, what action was taken to regain compliance?

None needed

0

Total Points Generated	
Score (100 - Total Points Generated)	
Section Grade	

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Sparta Wastewater Treatment Facility

Last Updated: Reporting For:
7/16/2020 **2019**

Effluent Quality and Plant Performance (Ammonia - NH3)

1. Effluent Ammonia Results

1.1 Verify the following monthly and weekly average effluent values, exceedances and points for ammonia

Outfall No. 001	Monthly Average NH3 Limit (mg/L)	Weekly Average NH3 Limit (mg/L)	Effluent Monthly Average NH3 (mg/L)	Monthly Permit Limit Exceedance	Effluent Weekly Average for Week 1	Effluent Weekly Average for Week 2	Effluent Weekly Average for Week 3	Effluent Weekly Average for Week 4	Weekly Permit Limit Exceedance
January		23			.101	.095	.161	.038	
February		23			.089	.06	.031	.046	
March		23			.089	.096	.115	1.459	
April		23			3.049	.19	.725	.111	
May									
June									
July									
August									
September									
October									
November		23			0		3.79	4.65	
December		23			3.96	3.62	2.52	5.28	
Points per each exceedance of Monthly average:									10
Exceedances, Monthly:									0
Points:									0
Points per each exceedance of weekly average (when there is no monthly average):									2.5
Exceedances, Weekly:									0
Points:									0
Total Number of Points									0

0

NOTE: Limit exceedances are considered for monthly OR weekly averages but not both. When a monthly average limit exists it will be used to determine exceedances and generate points. This will be true even if a weekly limit also exists. When a weekly average limit exists and a monthly limit does not exist, the weekly limit will be used to determine exceedances and generate points.

1.2 If any violations occurred, what action was taken to regain compliance?

None needed

Total Points Generated	
Score (100 - Total Points Generated)	
Section Grade	

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Sparta Wastewater Treatment Facility

Last Updated: Reporting For:
7/16/2020 **2019**

Effluent Quality and Plant Performance (Phosphorus)

1. Effluent Phosphorus Results

1.1 Verify the following monthly average effluent values, exceedances, and points for Phosphorus

Outfall No. 001	Monthly Average phosphorus Limit (mg/L)	Effluent Monthly Average phosphorus (mg/L)	Months of Discharge with a Limit	Permit Limit Exceedance
January	1	0.361	1	0
February	1	0.405	1	0
March	1	0.302	1	0
April	1	0.307	1	0
May	1	0.308	1	0
June	1	0.242	1	0
July	1	0.261	1	0
August	1	0.254	1	0
September	1	0.335	1	0
October	1	0.290	1	0
November	1	0.489	1	0
December	1	0.656	1	0
Months of Discharge/yr			12	
Points per each exceedance with 12 months of discharge:				10
Exceedances				0
Total Number of Points				0

0

NOTE: For systems that discharge intermittently to waters of the state, the points per monthly exceedance for this section shall be based upon a multiplication factor of 12 months divided by the number of months of discharge.

Example: For a wastewater facility discharging only 6 months of the year, the multiplication factor is $12/6 = 2.0$

1.2 If any violations occurred, what action was taken to regain compliance?

None needed

Total Points Generated	
Score (100 - Total Points Generated)	
Section Grade	

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Sparta Wastewater Treatment Facility

Last Updated: Reporting For:
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Biosolids Quality and Management

1. Biosolids Use/Disposal

1.1 How did you use or dispose of your biosolids? (Check all that apply)

- Land applied under your permit
- Publicly Distributed Exceptional Quality Biosolids
- Hauled to another permitted facility
- Landfilled
- Incinerated
- Other

NOTE: If you did not remove biosolids from your system, please describe your system type such as lagoons, reed beds, recirculating sand filters, etc.

1.1.1 If you checked Other, please describe:

2. Land Application Site

2.1 Last Year's Approved and Active Land Application Sites

2.1.1 How many acres did you have?

851.60 acres

2.1.2 How many acres did you use?

199 acres

2.2 If you did not have enough acres for your land application needs, what action was taken?

The wet season cause Synagro to not be able to land apply our sludge. Until Dec. Sparta had to go with a different hauler and store 102Kgal in A1 Advanced tank

2.3 Did you overapply nitrogen on any of your approved land application sites you used last year?

Yes (30 points)

No

2.4 Have all the sites you used last year for land application been soil tested in the previous 4 years?

Yes

No (10 points)

N/A

10

3. Biosolids Metals

Number of biosolids outfalls in your WPDES permit:

3.1 For each outfall tested, verify the biosolids metal quality values for your facility during the last calendar year.

Outfall No. 005 - LAND APPLICATION of SLUDGE

Parameter	80% of Limit	H.Q. Limit	Ceiling Limit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	80% Value	High Quality	Ceiling
Arsenic		41	75				10.3							11.6		0	0	
Cadmium		39	85				4.06							4.65		0	0	
Copper		1500	4300				438							505		0	0	
Lead		300	840				18.8							23.5		0	0	
Mercury		17	57				<4.26							.334		0	0	
Molybdenum	60		75				8.79							8.7	0		0	
Nickel	336		420				28.9							25.8	0		0	
Selenium	80		100				<20.9							<.392	0		0	
Zinc		2800	7500				519							589		0	0	

3.1.1 Number of times any of the metals exceeded the high quality limits OR 80% of the limit for molybdenum, nickel, or selenium = 0

Exceedence Points

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0 (0 Points)
 1-2 (10 Points)
 > 2 (15 Points)

3.1.2 If you exceeded the high quality limits, did you cumulatively track the metals loading at each land application site? (check applicable box)

Yes
 No (10 points)

N/A - Did not exceed limits or no HQ limit applies (0 points)
 N/A - Did not land apply biosolids until limit was met (0 points)

3.1.3 Number of times any of the metals exceeded the ceiling limits = 0
Exceedence Points

0 (0 Points)
 1 (10 Points)
 > 1 (15 Points)

3.1.4 Were biosolids land applied which exceeded the ceiling limit?

Yes (20 Points)
 No (0 Points)

3.1.5 If any metal limit (high quality or ceiling) was exceeded at any time, what action was taken? Has the source of the metals been identified?

0

4. Pathogen Control (per outfall):

4.1 Verify the following information. If any information is incorrect, use the Report Issue button under the Options header in the left-side menu.

Outfall Number:	005
Biosolids Class:	B
Bacteria Type and Limit:	
Sample Dates:	01/01/2019 - 12/31/2019
Density:	
Sample Concentration Amount:	
Requirement Met:	Yes
Land Applied:	Yes
Process:	Anaerobic Digestion
Process Description:	Operated greater than 95F and MCRT longer than 15 days

4.2 If exceeded Class B limit or did not meet the process criteria at the time of land application.

4.2.1 Was the limit exceeded or the process criteria not met at the time of land application?

Yes (40 Points)
 No

If yes, what action was taken?

0

5. Vector Attraction Reduction (per outfall):

5.1 Verify the following information. If any of the information is incorrect, use the Report Issue button under the Options header in the left-side menu.

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Outfall Number:	005		
Method Date:	04/12/2019		
Option Used To Satisfy Requirement:	Volatile Solids Reduction		
Requirement Met:	Yes		
Land Applied:	Yes		
Limit (if applicable):	>=38		
Results (if applicable):	57.90		
Outfall Number:	005		
Method Date:	04/12/2019		
Option Used To Satisfy Requirement:	Volatile Solids Reduction		
Requirement Met:	Yes		
Land Applied:	Yes		
Limit (if applicable):	>=38		
Results (if applicable):	57.90		
5.2 Was the limit exceeded or the process criteria not met at the time of land application?			
<input type="radio"/> Yes (40 Points) <input checked="" type="radio"/> No If yes, what action was taken? <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>			
6. Biosolids Storage			
6.1 How many days of actual, current biosolids storage capacity did your wastewater treatment facility have either on-site or off-site?			
<input checked="" type="radio"/> >= 180 days (0 Points) <input type="radio"/> 150 - 179 days (10 Points) <input type="radio"/> 120 - 149 days (20 Points) <input type="radio"/> 90 - 119 days (30 Points) <input type="radio"/> < 90 days (40 Points) <input type="radio"/> N/A (0 Points) 6.2 If you checked N/A above, explain why. <div style="border: 1px solid black; height: 20px; width: 100%; margin-top: 5px;"></div>			
7. Issues			
7.1 Describe any outstanding biosolids issues with treatment, use or overall management:			
<div style="border: 1px solid black; padding: 5px;"> Started sampling twice a year to get a more representative assessment of the solids being applied for the spring and fall season. No issues </div>			

Total Points Generated	
Score (100 - Total Points Generated)	
Section Grade	

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Staffing and Preventative Maintenance (All Treatment Plants)

<p>1. Plant Staffing</p> <p>1.1 Was your wastewater treatment plant adequately staffed last year?</p> <ul style="list-style-type: none">● Yes○ No <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Could use more help/staff for:</p> <div style="border: 1px solid black; padding: 2px;">Yes, Operations and plant maintenance and collection/liftstation maintenance</div> <p>1.2 Did your wastewater staff have adequate time to properly operate and maintain the plant and fulfill all wastewater management tasks including recordkeeping?</p> <ul style="list-style-type: none">● Yes○ No <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	
<p>2. Preventative Maintenance</p> <p>2.1 Did your plant have a documented AND implemented plan for preventative maintenance on major equipment items?</p> <ul style="list-style-type: none">● Yes (Continue with question 2) <input type="checkbox"/><input type="checkbox"/>○ No (40 points) <input type="checkbox"/><input type="checkbox"/> <p>If No, please explain, then go to question 3:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>2.2 Did this preventative maintenance program depict frequency of intervals, types of lubrication, and other tasks necessary for each piece of equipment?</p> <ul style="list-style-type: none">● Yes○ No (10 points) <p>2.3 Were these preventative maintenance tasks, as well as major equipment repairs, recorded and filed so future maintenance problems can be assessed properly?</p> <ul style="list-style-type: none">● Yes<ul style="list-style-type: none">○ Paper file system○ Computer system● Both paper and computer system○ No (10 points)	0
<p>3. O&M Manual</p> <p>3.1 Does your plant have a detailed O&M and Manufacturer Equipment Manuals that can be used as a reference when needed?</p> <ul style="list-style-type: none">● Yes○ No	
<p>4. Overall Maintenance /Repairs</p> <p>4.1 Rate the overall maintenance of your wastewater plant.</p> <ul style="list-style-type: none">○ Excellent○ Very good● Good○ Fair○ Poor <p>Describe your rating:</p> <div style="border: 1px solid black; padding: 2px;">Working on getting equipment redundancy and refining/logging hours for maintenance and PMs</div>	

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Score (100 - Total Points Generated)	
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Operator Certification and Education

1. Operator-In-Charge

1.1 Did you have a designated operator-in-charge during the report year?

- Yes (0 points)
- No (20 points)

Name:

DALE W PASSEHL

Certification No:

35337

0

2. Certification Requirements

2.1 In accordance with Chapter NR 114.56 and 114.57, Wisconsin Administrative Code, what level and subclass(es) were required for the operator-in-charge (OIC) to operate the wastewater treatment plant and what level and subclass(es) were held by the operator-in-charge?

Sub Class	SubClass Description	WWTP		OIC	
		Advanced	OIT	Basic	Advanced
A1	Suspended Growth Processes	X			X
A2	Attached Growth Processes	X			
A3	Recirculating Media Filters				
A4	Ponds, Lagoons and Natural				
A5	Anaerobic Treatment Of Liquid				
B	Solids Separation	X			X
C	Biological Solids/Sludges	X			X
P	Total Phosphorus	X			X
N	Total Nitrogen				
D	Disinfection	X			X
L	Laboratory	X			X
U	Unique Treatment Systems				
SS	Sanitary Sewage Collection	X	NA	NA	NA

2.2 Was the operator-in-charge certified at the appropriate level and subclass(es) to operate this plant? (Note: Certification in subclass SS, N and A5 not required in 2019; subclass SS is basic level only.)

- Yes (0 points)
- No (20 points)

0

3. Succession Planning

3.1 In the event of the loss of your designated operator-in-charge, did you have a contingency plan to ensure the continued proper operation and maintenance of the plant that includes one or more of the following options (check all that apply)?

- One or more additional certified operators on staff
- An arrangement with another certified operator
- An arrangement with another community with a certified operator
- An operator on staff who has an operator-in-training certificate for your plant and is expected to be certified within one year
- A consultant to serve as your certified operator
- None of the above (20 points)

If "None of the above" is selected, please explain:

0

4. Continuing Education Credits

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4.1 If you had a designated operator-in-charge, was the operator-in-charge earning Continuing Education Credits at the following rates?

OIT and Basic Certification:

- Averaging 6 or more CECs per year.
- Averaging less than 6 CECs per year.

Advanced Certification:

- Averaging 8 or more CECs per year.
- Averaging less than 8 CECs per year.

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Score (100 - Total Points Generated)	
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Financial Management

1. Provider of Financial Information Name: <input type="text" value="Gail Clark"/> Telephone: <input type="text" value="608 269 4340"/> (XXX) XXX-XXXX E-Mail Address (optional): <input type="text" value="acctng@spartawisconsin.org"/>		
2. Treatment Works Operating Revenues 2.1 Are User Charges or other revenues sufficient to cover O&M expenses for your wastewater treatment plant AND/OR collection system ? ● Yes (0 points) <input type="checkbox"/> <input type="checkbox"/> ○ No (40 points) If No, please explain: <input type="text"/> 2.2 When was the User Charge System or other revenue source(s) last reviewed and/or revised? Year: <input type="text"/> ● 0-2 years ago (0 points) <input type="checkbox"/> <input type="checkbox"/> ○ 3 or more years ago (20 points) <input type="checkbox"/> <input type="checkbox"/> ○ N/A (private facility) 2.3 Did you have a special account (e.g., CWFPP required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system? ● Yes (0 points) ○ No (40 points)		0
REPLACEMENT FUNDS [PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 3]		
3. Equipment Replacement Funds 3.1 When was the Equipment Replacement Fund last reviewed and/or revised? Year: <input type="text" value="2019"/> ● 1-2 years ago (0 points) <input type="checkbox"/> <input type="checkbox"/> ○ 3 or more years ago (20 points) <input type="checkbox"/> <input type="checkbox"/> ○ N/A If N/A, please explain: <input type="text"/>		
3.2 Equipment Replacement Fund Activity		
3.2.1 Ending Balance Reported on Last Year's CMAR	\$ <input type="text" value="1,589,367.66"/>	
3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)	\$ <input type="text" value="0.00"/>	
3.2.3 Adjusted January 1st Beginning Balance	\$ <input type="text" value="1,589,367.66"/>	
3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)	\$ <input type="text" value="66,568.81"/>	
	+	

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3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*) -

\$ 49,381.00

3.2.6 Ending Balance as of December 31st for CMAR Reporting Year

\$ 1,606,555.47

All Sources: This ending balance should include all Equipment Replacement Funds whether held in a bank account(s), certificate(s) of deposit, etc.

3.2.6.1 Indicate adjustments, equipment purchases, and/or major repairs from 3.2.5 above.

Effluent meter, FE sampler pump, UV replacement parts, Plant piping repaired

3.3 What amount should be in your Replacement Fund?

\$ 1,609,195.30

0

Please note: If you had a CWFPP loan, this amount was originally based on the Financial Assistance Agreement (FAA) and should be regularly updated as needed. Further calculation instructions and an example can be found by clicking the SectionInstructions link under Info header in the left-side menu.

3.3.1 Is the December 31 Ending Balance in your Replacement Fund above, (#3.2.6) equal to, or greater than the amount that should be in it (#3.3)?

- Yes
- No

If No, please explain.

4. Future Planning

4.1 During the next ten years, will you be involved in formal planning for upgrading, rehabilitating, or new construction of your treatment facility or collection system?

- Yes - If Yes, please provide major project information, if not already listed below.
- No

Project #	Project Description	Estimated Cost	Approximate Construction Year
1	The city of Sparta continues to replace clay tile sewer mains and manholes each year.	120000	2020
2	Replace aeration blower	100,000	2020
3	Replace aeration basin grids (diffuser)	15000	2020
4	Rehab south secondary clarifier	35000	2020
5	Installing RAS wet-well pumps VFDs to equilibrate flow variances	25000	2020
6	Upgrade SCADA and computers to windows 10	20000	2020
7	Replacement of GBT PLC	18000	2020
8	Replace digester mixing equipment and flare equipment that doesn't not function.	80000	2020
9	Replace pumps and install VFD at Riverwood liftstation	18000	2020
10	RAS and WAS valve automation for bug control	40000	2020
11	Establish a 20 year plan to better define the coming years.	35000	2020
12	Rehab north secondary clarifier	40000	2021
13	Digester heating loop and co-generator replacement	120000	2021
14	Utilize trickle filter tanks with alternative process. HSW feed tank and GBT dewater receiver and primary	TBD	2023
15	Rehab the primary clarifiers to Bio-P reactors	TBD	2023

5. Financial Management General Comments

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ENERGY EFFICIENCY AND USE

6. Collection System

6.1 Energy Usage

6.1.1 Enter the monthly energy usage from the different energy sources:

COLLECTION SYSTEM PUMPAGE: Total Power Consumed

Number of Municipally Owned Pump/Lift Stations:

	Electricity Consumed (kWh)	Natural Gas Consumed (therms)
January	4,885	2
February	5,658	1
March	5,594	2
April	4,871	0
May	4,282	4
June	4,205	1
July	4,024	23
August	4,719	1
September	4,255	4
October	4,302	1
November	4,594	2
December	5,917	4
Total	57,306	45
Average	4,776	4

6.1.2 Comments:

6.2 Energy Related Processes and Equipment

6.2.1 Indicate equipment and practices utilized at your pump/lift stations (Check all that apply):

- Comminution or Screening
- Extended Shaft Pumps
- Flow Metering and Recording
- Pneumatic Pumping
- SCADA System
- Self-Priming Pumps
- Submersible Pumps
- Variable Speed Drives
- Other:

6.2.2 Comments:

6.3 Has an Energy Study been performed for your pump/lift stations?

- No
- Yes

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Year:

2019

By Whom:

Tony

Describe and Comment:

Consultant from WRWA

6.4 Future Energy Related Equipment

6.4.1 What energy efficient equipment or practices do you have planned for the future for your pump/lift stations?

Installing VFDs, Installing VFD/centrifugal/turbo blowers

7. Treatment Facility

7.1 Energy Usage

7.1.1 Enter the monthly energy usage from the different energy sources:

TREATMENT PLANT: Total Power Consumed/Month

	Electricity Consumed (kWh)	Total Influent Flow (MG)	Electricity Consumed/Flow (kWh/MG)	Total Influent BOD (1000 lbs)	Electricity Consumed/Total Influent BOD (kWh/1000lbs)	Natural Gas Consumed (therms)
January	1,053,390	37.90	27,794	100.32	10,500	3,349
February	102,288	36.03	2,839	91.34	1,120	4,234
March	96,977	44.98	2,156	118.17	821	3,024
April	90,529	43.01	2,105	91.80	986	1,284
May	109,326	45.78	2,388	98.24	1,113	789
June	100,103	43.10	2,323	90.48	1,106	123
July	106,982	52.13	2,052	118.30	904	21
August	105,732	46.09	2,294	111.79	946	66
September	99,444	39.69	2,506	87.96	1,131	34
October	107,504	46.19	2,327	103.23	1,041	761
November	126,300	39.29	3,215	74.76	1,689	2,835
December	172,144	39.00	4,414	87.20	1,974	5,594
Total	2,270,719	513.19		1,173.59		22,114
Average	189,227	42.77	4,701	97.80	1,944	1,843

7.1.2 Comments:

7.2 Energy Related Processes and Equipment

7.2.1 Indicate equipment and practices utilized at your treatment facility (Check all that apply):

- Aerobic Digestion
- Anaerobic Digestion
- Biological Phosphorus Removal
- Coarse Bubble Diffusers
- Dissolved O2 Monitoring and Aeration Control
- Effluent Pumping

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- Fine Bubble Diffusers
- Influent Pumping
- Mechanical Sludge Processing
- Nitrification
- SCADA System
- UV Disinfection
- Variable Speed Drives
- Other:

7.2.2 Comments:

7.3 Future Energy Related Equipment

7.3.1 What energy efficient equipment or practices do you have planned for the future for your treatment facility?

VFDs, entrifugal blowers,smaller auto control UV, Digester gas management equipment (mixers,flare system,generator/ co-gen boiler, direct line to digester for HSW)

8. Biogas Generation

8.1 Do you generate/produce biogas at your facility?

No

Yes

If Yes, how is the biogas used (Check all that apply):

- Flared Off
- Building Heat
- Process Heat
- Generate Electricity
- Other:

9. Energy Efficiency Study

9.1 Has an Energy Study been performed for your treatment facility?

No

Yes

Entire facility

Year:

2019

By Whom:

Tony

Describe and Comment:

Consultant from WRWA

Part of the facility

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Year: <input type="text"/>
By Whom: <input type="text"/>
Describe and Comment: <input type="text"/>

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Sanitary Sewer Collection Systems

1. Capacity, Management, Operation, and Maintenance (CMOM) Program

1.1 Do you have a CMOM program that is being implemented?

- Yes
- No

If No, explain:

1.2 Do you have a CMOM program that contains all the applicable components and items according to Wisc. Adm Code NR 210.23 (4)?

- Yes
- No (30 points)
- N/A

If No or N/A, explain:

1.3 Does your CMOM program contain the following components and items? (check the components and items that apply)

- Goals [NR 210.23 (4)(a)]

Describe the major goals you had for your collection system last year:

Monitor Alpine and Wisconsin manhole trouble spot
Assess lift stations
establish updated telemetry at lift stations
Map out collection system using MSA ESRI collector app

Did you accomplish them?

- Yes
- No

If No, explain:

Trying to get a crawler replacement and SL RAT for sewer main assessment to more accurately assess the systems

- Organization [NR 210.23 (4) (b)]

Does this chapter of your CMOM include:

- Organizational structure and positions (eg. organizational chart and position descriptions)
- Internal and external lines of communication responsibilities
- Person(s) responsible for reporting overflow events to the department and the public

- Legal Authority [NR 210.23 (4) (c)]

What is the legally binding document that regulates the use of your sewer system?

Code 15

If you have a Sewer Use Ordinance or other similar document, when was it last reviewed and revised? (MM/DD/YYYY)

2014-06-15

Does your sewer use ordinance or other legally binding document address the following:

- Private property inflow and infiltration
- New sewer and building sewer design, construction, installation, testing and inspection
- Rehabilitated sewer and lift station installation, testing and inspection
- Sewage flows satellite system and large private users are monitored and controlled, as necessary
- Fat, oil and grease control
- Enforcement procedures for sewer use non-compliance
- Operation and Maintenance [NR 210.23 (4) (d)]

Does your operation and maintenance program and equipment include the following:

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- Equipment and replacement part inventories
 - Up-to-date sewer system map
 - A management system (computer database and/or file system) for collection system information for O&M activities, investigation and rehabilitation
 - A description of routine operation and maintenance activities (see question 2 below)
 - Capacity assessment program
 - Basement back assessment and correction
 - Regular O&M training
 - Design and Performance Provisions [NR 210.23 (4) (e)]
- What standards and procedures are established for the design, construction, and inspection of the sewer collection system, including building sewers and interceptor sewers on private property?
- State Plumbing Code, DNR NR 110 Standards and/or local Municipal Code Requirements
 - Construction, Inspection, and Testing
 - Others:

- Overflow Emergency Response Plan [NR 210.23 (4) (f)]
- Does your emergency response capability include:
- Responsible personnel communication procedures
 - Response order, timing and clean-up
 - Public notification protocols
 - Training
 - Emergency operation protocols and implementation procedures
- Annual Self-Auditing of your CMOM Program [NR 210.23 (5)]
 - Special Studies Last Year (check only those that apply):
- Infiltration/Inflow (I/I) Analysis
 - Sewer System Evaluation Survey (SSES)
 - Sewer Evaluation and Capacity Management Plan (SECAP)
 - Lift Station Evaluation Report
 - Others:

2. Operation and Maintenance

2.1 Did your sanitary sewer collection system maintenance program include the following maintenance activities? Complete all that apply and indicate the amount maintained.

Cleaning	<input style="width: 60px; border: 1px solid black;" type="text" value="10"/>	% of system/year
Root removal	<input style="width: 60px; border: 1px solid black;" type="text" value="2"/>	% of system/year
Flow monitoring	<input style="width: 60px; border: 1px solid black;" type="text" value="0"/>	% of system/year
Smoke testing	<input style="width: 60px; border: 1px solid black;" type="text" value="0"/>	% of system/year
Sewer line televising	<input style="width: 60px; border: 1px solid black;" type="text" value="0"/>	% of system/year
Manhole inspections	<input style="width: 60px; border: 1px solid black;" type="text" value="20"/>	% of system/year
Lift station O&M	<input style="width: 60px; border: 1px solid black;" type="text" value="4"/>	# per L.S./year
Manhole rehabilitation	<input style="width: 60px; border: 1px solid black;" type="text" value="3"/>	% of manholes rehabbed
Mainline rehabilitation	<input style="width: 60px; border: 1px solid black;" type="text" value="2"/>	% of sewer lines rehabbed

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Private sewer inspections % of system/year
 Private sewer I/I removal % of private services
 River or water crossings % of pipe crossings evaluated or maintained

Please include additional comments about your sanitary sewer collection system below:

Just implemented the MSA ESRI ARC GIS app for data collection of O&M related work on the collection system

3. Performance Indicators

3.1 Provide the following collection system and flow information for the past year.

Total actual amount of precipitation last year in inches
 Annual average precipitation (for your location)
 Miles of sanitary sewer
 Number of lift stations
 Number of lift station failures
 Number of sewer pipe failures
 Number of basement backup occurrences
 Number of complaints
 Average daily flow in MGD (if available)
 Peak monthly flow in MGD (if available)
 Peak hourly flow in MGD (if available)

3.2 Performance ratios for the past year:

Lift station failures (failures/year)
 Sewer pipe failures (pipe failures/sewer mile/yr)
 Sanitary sewer overflows (number/sewer mile/yr)
 Basement backups (number/sewer mile)
 Complaints (number/sewer mile)
 Peaking factor ratio (Peak Monthly:Annual Daily Avg)
 Peaking factor ratio (Peak Hourly:Annual Daily Avg)

4. Overflows

LIST OF SANITARY SEWER (SSO) AND TREATMENT FACILITY (TFO) OVERFLOWS REPORTED **

Date	Location	Cause	Estimated Volume (MG)
None reported			

** If there were any SSOs or TFOs that are not listed above, please contact the DNR and stop work on this section until corrected.

5. Infiltration / Inflow (I/I)

5.1 Was infiltration/inflow (I/I) significant in your community last year?

- Yes
- No

If Yes, please describe:

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5.2 Has infiltration/inflow and resultant high flows affected performance or created problems in your collection system, lift stations, or treatment plant at any time in the past year?

Yes

No

If Yes, please describe:

5.3 Explain any infiltration/inflow (I/I) changes this year from previous years:

NA

5.4 What is being done to address infiltration/inflow in your collection system?

NA

Total Points Generated	
Score (100 - Total Points Generated)	
Section Grade	

Compliance Maintenance Annual Report

Sparta Wastewater Treatment Facility

Last Updated: Reporting For:
7/16/2020 **2019**

Grading Summary

WPDES No: 0020737

SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Influent				
BOD/CBOD				
TSS				
Ammonia				
Phosphorus				
Biosolids				
Staffing/PM				
OpCert				
Financial				
Collection				
TOTALS			0	0
GRADE POINT AVERAGE (GPA) =				

Notes:

- A = Voluntary Range (Response Optional)
- B = Voluntary Range (Response Optional)
- C = Recommendation Range (Response Required)
- D = Action Range (Response Required)
- F = Action Range (Response Required)

Compliance Maintenance Annual Report

Sparta Wastewater Treatment Facility

Last Updated: Reporting For:
7/16/2020 2019

Resolution or Owner's Statement

Name of Governing
Body or Owner:

City of Sparta

Date of Resolution or
Action Taken:

2020-08-04

Resolution Number:

Date of Submittal:

ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO SPECIFIC CMAR SECTIONS (Optional for grade A or B. Required for grade C, D, or F):

Influent Flow and Loadings: Grade =

Effluent Quality: BOD: Grade =

Effluent Quality: TSS: Grade =

Effluent Quality: Ammonia: Grade =

Effluent Quality: Phosphorus: Grade =

Biosolids Quality and Management: Grade =

Staffing: Grade =

Operator Certification: Grade =

Financial Management: Grade =

Collection Systems: Grade =

(Regardless of grade, response required for Collection Systems if SSOs were reported)

ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO THE OVERALL GRADE POINT AVERAGE AND ANY GENERAL COMMENTS

(Optional for G.P.A. greater than or equal to 3.00, required for G.P.A. less than 3.00)

G.P.A. =

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
La Crosse Service Center
3550 Mormon Coulee Road
La Crosse WI 54601

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711



July 22, 2020

Mark Van Wormer
City of Sparta
Director of Public Works
201 West Oak Street
Sparta, WI 54656

Subject: NOTICE OF NONCOMPLIANCE
Permit Limit Exceedances; Late Noncompliance Reporting
City of Sparta WPDES Permit #WI-0020737-10-0

Dear Mr. Van Wormer:

The Wisconsin Pollution Discharge Elimination System (WPDES) authorized under s. 283.31, Wis. Stats., requires that the City of Sparta issued WPDES Permit #WI-0020737-10-0, a point source facility, meet permit conditions. The purpose of this letter is to issue a Notice of Noncompliance (NON) for violations of the above referenced WPDES Permit. Specifically, permit exceedance of effluent limits and late noncompliance reporting.

The violations for discharges from outfall 001 upon reviewing the District's discharge monitoring reports (DMR's) include:

June 2020

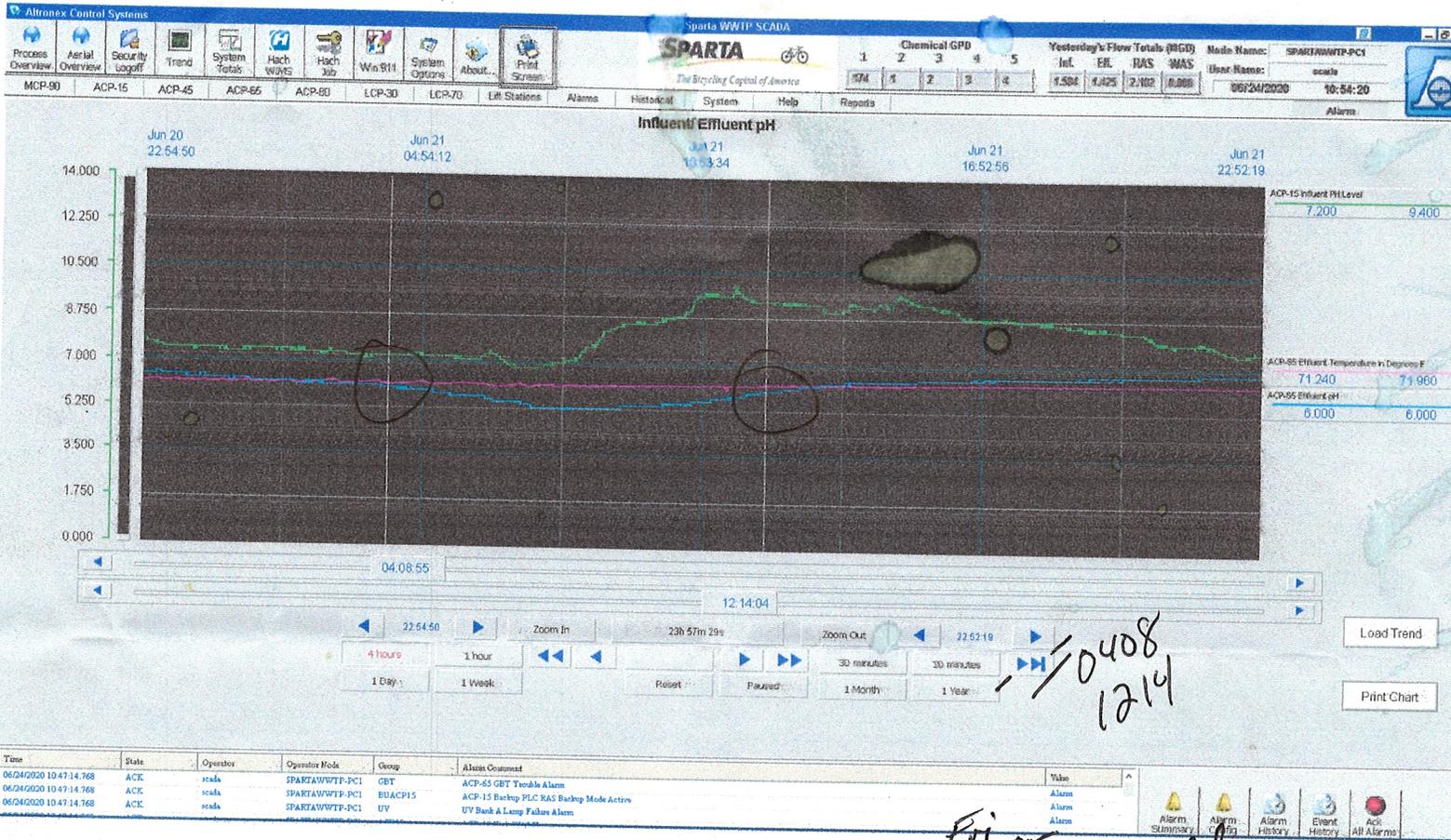
pH violated the Daily Minimum Limit of 6 on 06/21/2020 with a result of 5.5.
Phosphorus, Total violated the Monthly Average Limit of 1.0 mg/L with a result of 1.09 mg/L.
Suspended Solids, Total violated the Weekly Average Limit (week 4) of 45 mg/L with a result of 64.8 mg/L.

The WPDEs permit requires that the permittee completes a noncompliance notification for each exceedance using the guidelines in section 6.2.1 in the permit. The noncompliance notification from the permittee in Section 6.2.1 requires the following:

"...The permittee shall report the following types of noncompliance by a telephone call to the Department's regional office within 24 hours after becoming aware of the noncompliance:

- any noncompliance which may endanger health or the environment;
- any violation of an effluent limitation resulting from a bypass;
- any violation of an effluent limitation resulting from an upset; and
- any violation of a maximum discharge limitation for any of the pollutants listed by the Department in the permit, either for effluent or sludge.

A written report describing the noncompliance shall also be submitted to the Department's regional office within 5 days after the permittee becomes aware of the noncompliance. On a case-by-case basis, the Department may waive the requirement for submittal of a written report within 5 days and instruct the permittee to submit the written report with the next regularly scheduled monitoring report. In either case, the written report shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times;



Time	State	Operator	Operator Mode	Group	Alarm Comment	Value
06/24/2020 10:47:14.768	ACK	scda	SPARTA/WWTP-PC1	GBT	ACP-65 GBT Trouble Alarm	
06/24/2020 10:47:14.768	ACK	scda	SPARTA/WWTP-PC1	BUACP15	ACP-15 Backup PLC RAS Backup Mode Active	
06/24/2020 10:47:14.768	ACK	scda	SPARTA/WWTP-PC1	UV	UV Bank A Lamp Failure Alarm	

COD Final

23 Tues 335

24 Wed 172

25 Thurs 69

MLSS

2083

2085

2101

PHWS

< 6.0 pH

MLSS - 6.5

after clarifiers pH ↓

Fri 6/19 4:30pm

- over load receiving

- pump fail - no diester

- valve failure rec. - Sat - 12 noon

Sat 2 9pm

- PH - low 4:20-12:00 Sunday

foaming Sunday

21st 3 tanks bug

23rd 3 tanks bug

TSS Final

22 Mon 184

23 Tues 92

24 wed 36

45 week Avg

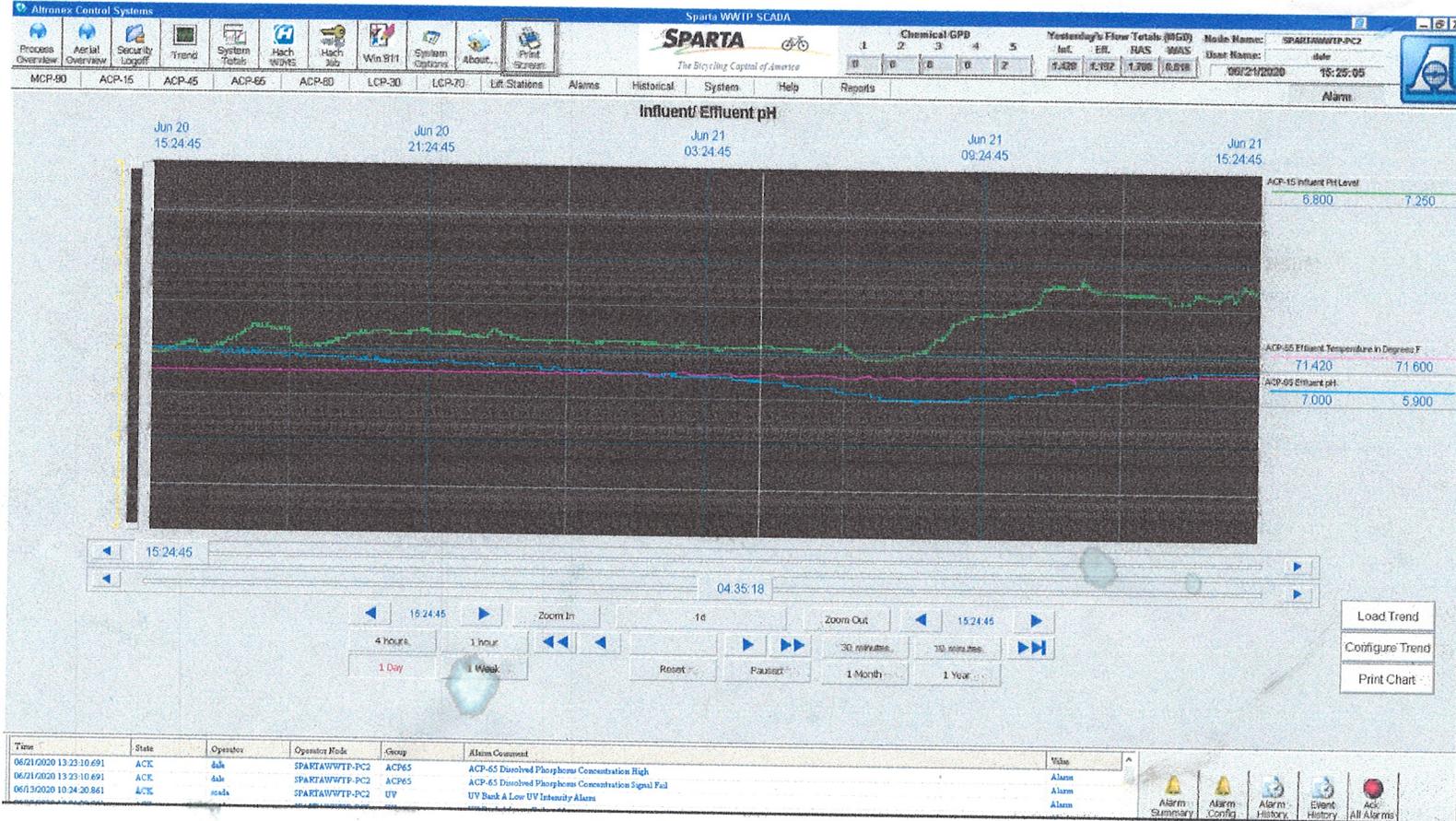
30 month Avg

River ^{outfall} 5.54 11am

Effluent 5.23 11am

- 1520 beads

350 up right



Mark

24000 gal to plant
 16000 to head
 8000 to dig/sludge

50 gal Suan 30 gal deosan
 50 gal PF + 20 gal of NaOH @ WWTP
 8-10 kgal bug Suan
 Tomah - Sunday

- white foam Sun morn.
- Blower 5 - bearing seize
- Alga going offline frequently

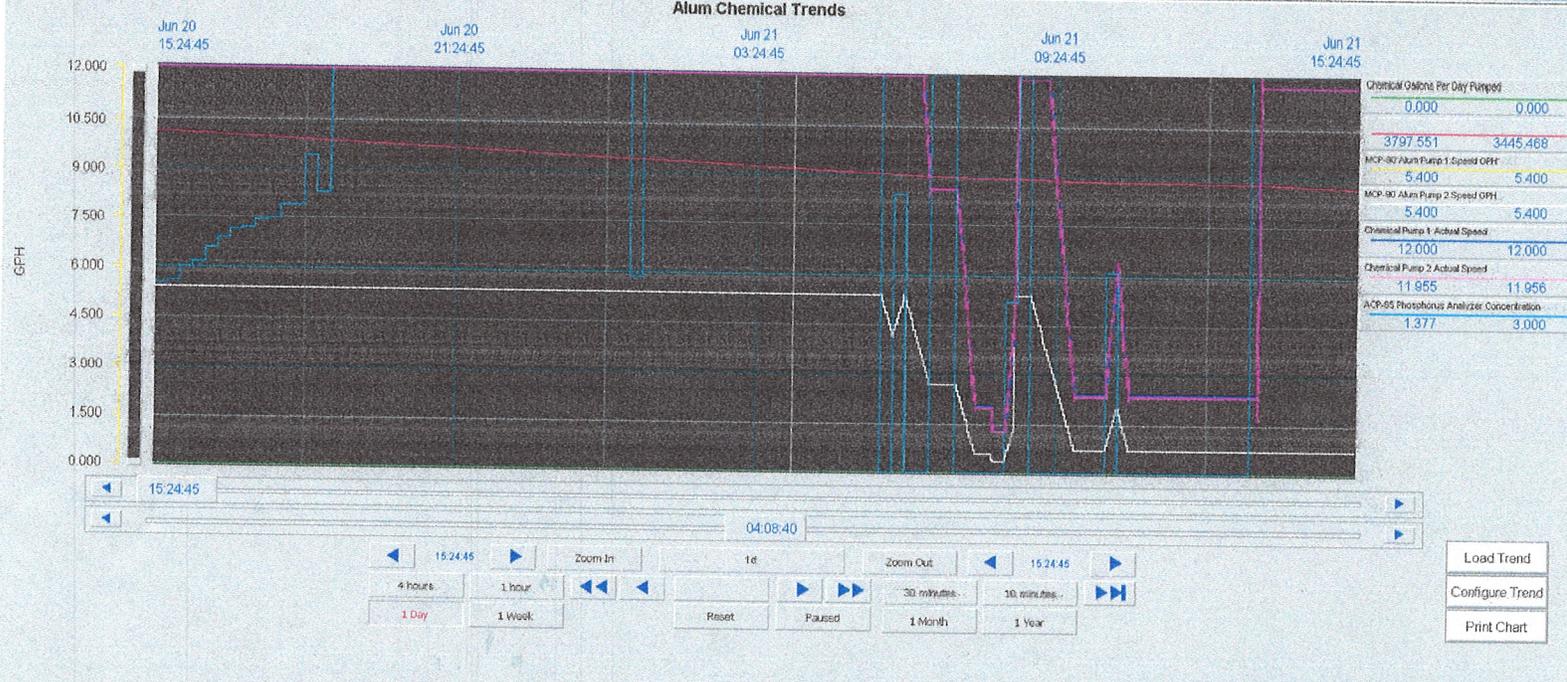
High TSS, BOD, Fecal?

Effluent - opaque / ~~white~~ cream

pH anomaly - excessive bacteria
 little to no filament

Sun (M)
 Sat .07
 Sun .1 (1.1)
 Mon .6
 Tue .60
 Wed .319
 Thu .04

- very high E:M
- ↑ RAS + ↓ WAS - or Sat morning
- slowed Recovery 30 off 5min to 40 off, 20m



Time	State	Operator	Operator Mode	Group	Alarm Comment	Ydn
06/21/2020 13:23:10.691	ACK	side	SPARTAWWTP-PC2	ACP65	ACP-65 Dissolved Phosphorus Concentration High	Alarm
06/21/2020 13:23:10.691	ACK	side	SPARTAWWTP-PC2	ACP65	ACP-65 Dissolved Phosphorus Concentration Signal Fail	Alarm
06/15/2020 10:24:30.861	ACK	scada	SPARTAWWTP-PC2	UV	UV Bank A Low UV Intensity Alarm	Alarm

Alum Issues

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: SPARTA WASTEWATER TREATMENT FACILITY
 Contact Address: 805 Richgruber Rd
 Sparta, WI 54656
 Facility Contact: Scott Thomas, Lab Manager
 Phone Number: 608-269-6824
 Reporting Period: 06/01/2020 - 06/30/2020
 Form Due Date: 07/21/2020
 Permit Number: 0020737

Date Received:
 DOC: 444121
 FIN: 5855
 FID: 642007080
 Region: West Central Region
 Permit Drafter: Holly J Heldstab
 Reviewer: Julia A Stephenson
 Office: La Crosse

Sample Point	703	703	703	001	001	
Description	INFLUENT AT INLET CHANNEL	INFLUENT AT INLET CHANNEL	INFLUENT AT INLET CHANNEL	EFFLUENT TO LA CROSSE RIVER	EFFLUENT TO LA CROSSE RIVER	
Parameter	211	66	457	211	66	
Description	Flow Rate	BOD5, Total	Suspended Solids, Total	Flow Rate	BOD5, Total	
Units	MGD	mg/L	mg/L	MGD	mg/L	
Sample Type	CONTINUOUS	24 HR FLOW PROP	24 HR FLOW PROP	CONTINUOUS	24 HR FLOW PROP	
Frequency	DAILY	5/WEEK	5/WEEK	DAILY	5/WEEK	
Sample Results	Day 1	1.353	242	176	1.624	8
	2	1.382	196	153	1.382	9
	3	1.490	326	140	1.674	7
	4	1.444	399	188	1.620	13
	5	1.386	272	225	1.580	12
	6	1.368			1.497	
	7	1.436			1.573	
	8	1.497	306	205	1.706	5
	9	1.595	220	158	1.817	4
	10	1.527	228	260	1.691	7
	11	1.390	395	230	1.542	6
	12	1.352	215	223	1.530	7
	13	1.303			1.443	
	14	1.352			1.500	
	15	1.362	597	205	1.586	4
	16	1.371	261	163	1.537	10
	17	1.329	227	270	1.562	6
	18	1.312	252	210	1.525	7
	19	1.372	141	43	1.601	7
	20	1.428			1.192	
	21	1.555			1.769	
	22	1.593	279	130	1.388	47
	23	1.584	358	148	1.425	49
	24	1.610	234	227.5	1.820	28
	25	1.524	233	297.5	1.702	6
	26	1.523	215	182	1.766	12
	27	1.528			1.688	
	28	1.566			1.731	
	29	1.623	282	113	2.192	14
	30	1.576	264	102.5	1.892	4
	31					

Sample Point	001	001	001	001	001	
Description	EFFLUENT TO LA CROSSE RIVER					
Parameter	457	377	204	147	231	
Description	Suspended Solids, Total	pH Field	Fecal Coliform	Copper, Total Recoverable	Hardness, Total as CaCO3	
Units	mg/L	su	#/100ml	ug/L	mg/L	
Sample Type	24 HR FLOW PROP	GRAB	GRAB	24 HR FLOW PROP	24 HR FLOW PROP	
Frequency	5/WEEK	DAILY	2/WEEK	MONTHLY	MONTHLY	
Sample Results	Day 1	10	7.26			
	2	11	7.10	120		
	3	10	7.02			
	4	13	7.27	176		
	5	11	7.27			
	6		7.14			
	7		7.23			
	8	9	7.32			
	9	5	7.19	56		
	10	5	7.14			
	11	6	7.02	136	32.1	187
	12	5	7.07			
	13		7.20			
	14		7.4			
	15	6	7.33			
	16	7	7.37	38		
	17	7	7.40			
	18	6	7.11	120		
	19	6	7.18			
	20		6.62			
	21		5.5			
	22	186	7.02			
	23	92	7.37	>400		
	24	36	7.32			
	25	7	7.10	130		
	26	3	7.01			
	27		7.10			
	28		7.06			
	29	16	7.13			
	30	23	7.14	164		
	31					

	Sample Point	001		001		001		001		001	
	Description	EFFLUENT TO LA CROSSE RIVER		EFFLUENT TO LA CROSSE RIVER		EFFLUENT TO LA CROSSE RIVER		EFFLUENT TO LA CROSSE RIVER		EFFLUENT TO LA CROSSE RIVER	
	Parameter	457		377		204		147		231	
	Description	Suspended Solids, Total		pH Field		Fecal Coliform		Copper, Total Recoverable		Hardness, Total as CaCO3	
	Units	mg/L		su		#/100ml		ug/L		mg/L	
Summary Values	Monthly Avg	21.818181818		7.113		>148.888888889		32.1		187	
	Daily Max	186		7.4		>400		32.1		187	
	Daily Min	3		5.5		38		32.1		187	
	Geometric Mean -					122.59431191					
	Geometric Mean -					87.269696917					
	Week 1 Avg	11									
	Week 2 Avg	6									
	Week 3 Avg	6.4									
	Week 4 Avg	64.8									
Limit(s) in Effect	Monthly Avg	30	0								
	Daily Max			9	0						
	Daily Min			6	1						
	Geometric Mean -					400	0				
	Geometric Mean -					780	0				
	Weekly Avg	45	1								
QA/QC Information	LOD							1.69			
	LOQ							5.63			
	QC Exceedance	Y		Y		N		N		N	
	Lab Certification	642007080						632021390		632021390	

Sample Point	001	001	001	602	602
Description	EFFLUENT TO LA CROSSE RIVER	EFFLUENT TO LA CROSSE RIVER	EFFLUENT TO LA CROSSE RIVER	In-stream Sampling Point	In-stream Sampling Point
Parameter	789	388	388	211	388
Description	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Flow Rate	Phosphorus, Total
Units	mg/L	mg/L	lbs/day	cfs	mg/L
Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	MEASURE	GRAB
Frequency	WEEKLY	3/WEEK	3/WEEK	MONTHLY	MONTHLY
Sample Results	Day 1		.920	7.60	
	2				531
	3	1.55	.919	7.37	
	4				
	5		.838	6.25	
	6				
	7				
	8		.883	7.11	
	9				
	10	1.09	.969	7.96	
	11				
	12		.885	6.44	
	13				
	14				
	15		.861	6.31	
	16				
	17	.79	1.250	8.94	
	18				
	19		.803	5.93	
	20				.134
	21				
	22		3.02	25.52	
	23				
	24	17.6	1.33	11.52	
	25				
	26		.190	1.56	
	27				
	28				
	29		1.35	11.79	
	30				
	31				

Sample Point	001	001	001	602	602	
Description	EFFLUENT TO LA CROSSE RIVER	EFFLUENT TO LA CROSSE RIVER	EFFLUENT TO LA CROSSE RIVER	In-stream Sampling Point	In-stream Sampling Point	
Parameter	789	388	388	211	388	
Description	Nitrogen, Ammonia (NH3-N) Total	Phosphorus, Total	Phosphorus, Total	Flow Rate	Phosphorus, Total	
Units	mg/L	mg/L	lbs/day	cfs	mg/L	
Summary Values	Monthly Avg	5.2575	1.093692308	8.792307692	265.567	0.134
	Daily Max	17.6	3.02	25.52	531	0.134
	Daily Min	0.79	0.19	1.56	0.134	0.134
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg		1	1		
	Daily Max					
	Daily Min					
	Geometric Mean -					
	Geometric Mean -					
	Weekly Avg					
QA/QC Information	LOD	0.06	0.049			0.049
	LOQ	0.2	0.163			0.163
	QC Exceedance	N	Y	N	N	N
	Lab Certification	632021390	632021390			632021390

Sparta WWTP Overload Incident Report

Incident: 6/21/2020

Where: Sparta WWTP

805 Richgruber Road

Sparta WI 54656

The period from June 21st through June 24th Sparta WWTP experienced a nutrient overload. As a result, Sparta WWTP received a Notice of Noncompliance for pH, Phosphorus, and Suspended Solids. A copy of the Non-Compliance form has been attached at the end of the Corrective Action report. In the body of the report I will describe when and how the events occurred. Likewise, I will explain why, and the corrective actions taken to insure this does not happen again. Our WWTP department does not take non-compliance notices lightly. We were able to quickly react to the equipment failures and with extensive WWTP knowledge and experience we were able to turn the plant back around and reestablish viable microbiology to remediate the incident and cause catastrophic environmental damage if the treatment was not reestablish quickly. The whole WWTP department came in to work the 20th and 21st, to create a game plan to remediate the catastrophic failures that occurred during the weekend. The group performed very admirably and efficiently. Each person took this situation personally as I witnessed their expressions of concern, worry, and eagerness to get back on track. Every person on staff went the extra mile to regain treatment and remediate the situation. As a manager, I am very grateful to have such an empowered crew with a high level of work ethic. All I can ask for is to continue to hone their WWTP skills and retain them.

June 20th around 1600hrs Foremost Farms asked if we could accept 24,000 gallons of whey/caustic tainted product/waste. I stated that we could come over there immediately and haul the waste to our digester and receiving station. The waste consisted of two strengths, one at 21% solids and

the other at 42% solids. We hauled the lower strength waste Friday night to the receiving station and set our septage drain valve for an integrate the first 12,000 gallons headworks charge over a 48hr period. We accepted this same waste through the sanitary sewer earlier in the years with no adverse effects, so this was determined to be a good time frame.

Saturday morning everyone came in and the loading of the 42% started. The 42% was set to plumb directly to the temporary digester direct line. We have gravity drain trucks and a pump was required to pump to the digester as the line is under roughly 10psi. Of the four various pump we have none of them functioned as expected. This resulted in abandoning the much-needed digester option. The 42% then went into the receiving station middle and north tanks. 6,000 gallons would be held in the middle tank while 3,000 gallons would be mixed and charge with the lighter HSW over the initial 48 hr. period. The valve regulation was then set for a charge of the remainder of the north over another 72hr period after it has been charging for 12hrs.

After the loading was done Saturday morning one of my operators stated that the tanks were empty prior to charge the 42% HSW. I was shocked and quickly went with the operator to shut the feed off. This was about 2 hours after the Saturday hauling was completed. We were taking some equipment down and putting other equipment in operation to handle the expected loading assuming the equipment was functioning as expected. By the time the feed was stopped we approximated in total about 15,000 gallons of HSW was already in the treatment system and needed immediate attention. The remainder of the HSW was 9,000 gallons and holding in the receiving tanks. The discharge valve on the receiving station was then found to be leaking severely in the close position. I initiated A1 Advanced Pumping to pump the two receiving tanks out and redirect the HSW stream to the solids tanks for solids reduction and spreading. Their trucks have power off-loading!

By late Saturday afternoon, the plant system still looked aesthetically fine. The only caveat indication was the Phosphorus level was going up and utilizing both our feed pumps which were not enough to keep up. I decide to add a 300-gallon tote of alum to stymie the rising phosphorus numbers. To reduce the F:M ratio impact, the 3rd aeration basin was put online to prevent any toxicological shock on the system. The wasting was shut down and the return flow to the plant was raised to 130%. This allows time for the bug population to grow and not be wastes, which will also reduce overload overflow. After the fact (mid Sunday) The F:M was calculated to be around 1.2mg/l for two basins and .79 mg/l for three basins on-line. By 1700hr the plant was in a waiting mode to see how the bugs would handle the sludge load.

At 0420 Sunday morning the pH slowly dropped to was going down in the effluent. By the time, the weekend operator and I came in the pH was down to 5.5. Our permit is 6. The newly replace diffuser tank with good air flow was very foamy and white with DOs of 2+. The other two basins were not nearly as foamy as the diffusers were old and plugged up only allowing DOs to rise to .4-.5. There are a few issues here. We need the air in the aeration basins to be between 1-2. More air exacerbates foaming. Less air creates a filamentous problem which would be more difficult to treat. I was forced to utilize the 100hp blower with the two 75hp blower to achieve enough air. The back pressure induces higher amperage on the 75hp blowers and can kick out the smaller blower and/or burn up the bearings. Two blowers with the existing diffusers cannot create the air needed for three basins.

So, three blowers were placed in operation. Overall, from 21st to the 24th blower # kicked out 3 times due to VFD overload meaning there was too much system back pressure causing excessive amperage on the motor and VFD. Over a period of time the VFD shuts the motor down as a precaution. The blower shutdowns reduce the ability of the micro-organisms to consume the system nutrients.

Overall increasing bug population and increasing hydraulic retention time was a high priority. The north clarifier is down for maintenance as the seals, coating, have cause improper hydraulic handling and does not function as a clarifier needs to. Having this clarifier would have increased our time and capacity to reduce the nutrients from leaving the plant.

Sunday morning 0700 the following conditions:

- Foaming in new diffuser applied AS basin
- Effluent pH at 5.5
- Bugs fat and inactive (lazy and sedentary with remote in hand)
- Opaque effluent lightly white
- P analyzer not functioning
- Keep blowers running and get all AS basins to DO of <1mg/L
- Primary dialer not operating effectively since the windows 10 upgrade. The secondary dialer not set up to identify effluent pH conditions

Immediate Needs Determined:

- Get plant effluent back to >6
- Reduce foaming
- Assess bug activity and reseed if necessary
- Monitor Phosphorus
- Satisfy chemical demands

Corrective action: remediation steps

- Obtained 30 gallons of NaOH from Foremost and added in 5 gal increment every 20 min to the RAS
- Obtained 40 gallons of food grade defoamer from FF to reduce AS foaming and foaming at the final effluent stairs.
- Keep blowers in operation, attempt to clear plugged diffusers in AS 1&2
- Assess the AS basins, 2ndary clarifiers, final effluent (COD), and river for pH (COD is a new test established to monitor oxygen demand with a 1 lead time compared to 5 days on the much accepted BOD method) Gave us a ball park figure of overloading on the plant relatively quickly
- MLSS and RAS at 6.3pH. 2ndary clarifier effluent <6. Raise pH in RAS and AS basin to 7 to accommodate massive bacteria population (acid production and p-chemical addition per clarifier)

- The above actions were performed between 0700 and 1200hr on Sunday June 21st. By 1200hrs the pH was <6 and foaming pre-final effluent was controlled. What remained was the opaque effluent from the clarifiers. Meaning the overload was treated as much as possible and the remainder was expelled to the river.
- Ensure no further AS issues and filamentous population arising. To assist the AS basins, 14,000 gallons of seed was obtained from Tomah on Sunday 21st and another 14,000 gallons on Tuesday 23rd.
- Reduce polysaccharide production from excess bacterial growth and die off. (slime build up that causes process, control, and lab issues)
- Clean and re-tube P analyzer
- Programed the dialers to identify final effluent pH conditions and alarm

Constant sampling, re-calibrating, and removing polysaccharides build up on equipment, and AS basin manipulations kept the operations staff over worked during the four-day overload, keeping and nurturing the bug population and cutting off wasting to exacerbate microbial growth. Constant monitoring of the effluent to the river, COD, and grab P and micro samples determined actions to be taken to get the plant micro-biology and the WWTP system to best handle the shock food load and reduce the under-treated effluent having to leave the plant.

Monday- I called Dave Sauer, I explained the situation and asked if there is any reporting that needed to be done on my part. At that time, he stated that it would be identify on the DMR and there was no need to call our DNR representative.

Thurs- All actions that could be taken to remediate the situation were perform and by mid Weds 24th the effluent was noticeably clearer. Normal number were seen on Thursday samples. I called and left a message with Julia Stevenson on the 24th. Friday the 25th the DNR warden visited and investigated for any possible wildlife degradations. He checked and found no detriment to the ecosystem.

Causing factors leading to plant overload

- Multiple pumps working or maintained for use, 4 pumps in garage did not work for one reason or another. Later all pumps were deemed not fixable. Not allowing our trucks to haul the HSW directly to the digester
- Failed receiving station drain valve. The ¼ turn plug valve when closed still allowed an undetermined flow to enter head works eliminated the ability to meter in HSW
- Pump in the receiving station frozen and could not pump to other tankage for holding or treatment
- Diffusers in 2 AS basins only allowing a small proportion of air to get to the bugs. Only AS#3 was had newly installed EDPM diffusers. This gives the bugs the much needed O2 at a greatly reduced demand on the blower system. AS#2 has severe diffuser blocking and were on schedule this summer to be replaced.

Remediation of incident to prevent recurrence

- Discussed with Julia regarding reporting expectations of effluent changes.
 - I reported a spill on the hot line and completely understand the DNR's reporting expectations. Basically, call and report, confer with our DNR rep. **Complete**
- Obtain a working 4" trash pump to load digester directly from Bldg #30 for our truck use of hauled HSW. **Complete**
- Scheduled line installation, pump replacement in receiving station to pump HSW directly to the digester from the holding tank. **Complete**
- Finish replacing AS diffusers. **AS#1 and @2 are complete.** #3 is down for maintenance.
- In process of 2ndary clarifier maintenance (seals) and engineering for coating and mechanics
- Replace receiving drain valve and provide more modulated controls with flow devise in manhole to accurately provide nutrients in a balanced approach to the head of the plant. (In process, and scheduling work to be performed. Waiting for parts to come in as well) Expect to have it done by October and fully integrated.

Note: Handling and incident remediation was a fluid process and was handled as quickly as possible as

to achieve and expedite remediation ASAP. The septage drain valve issue takes longer due to the valve actuator delivery. Also, the 2ndary clarifier needs inspection of mechanical drive, hydraulic flow capacity of rake (not correct yet), replacement of 2nd seal. The seal is being scheduled to replace, the larger projects on this equipment will be put into 2021 budget as the cost will run around \$50+K.

Commented [DP1]:

Commented [DP2]:

For more informative numbers regarding the above incident please see the attached docs.

1. Notice of Noncompliance
2. Copy of June's DMR highlighted numbers
3. Lab notes on a SCADA print out having ph, in-house PO4, and COD results (3 sheets)

Dale Passehl
Sanitation Manger
Sparta Wisconsin

2020 Sewer line camera and assessment tool

	Envirosight	Rating#	Source One	Rating#	Envirotech	Rating#	Cue	Rating#	Variabilities of equipment
Sewer Cam	Y	10	Y	3	Y	8	Y	5	Equipment rate on camera
Pipe repair	Y	10	Y	6	Y	10	Y	5	Repair kit with perfect
Warranty	1 year	8	1 year	8	1 year	8	1 year	8	Standard warranty
Customer Service/parts	Mn/32 sites	10		4	Wis/2 sites	8	3 sites	4	Local service and man
Meet proposal requirements	Y	10	N	4	Y	10	N	4	Illustrated requirements
Collect app compatibility	SWC	10	USB	4	SWC	7	USB	4	Rated on ease of transi
Positive References	Y	10	N	1	Y	10	N	5	References for all sour
Staff rating		10		1		8		5	What the staff liked be
Zoom, tilt, pan	Y 120x	10	N	5	Y 40x	10	N	5	Tilt, pan, zoom abilities
includes camera utilities and repair									
Trade in available	Y	6.5	N	0	N	0	N	0	Any trade in of old TV €
Total Costs	\$106	9.45	\$108K	3.6	\$95K	7.9	\$105K	4.5	

1 poor - 10 excellent

*Software subscription and updates, next year go to AI. In 2021, Camera video codes itself and maps system with less operator input.

*Software with a click of the button will populate the MSA collector app. Turn key operation. No other system does that.

* No extra computer to buy and up keep/replace

SL-RAT Rapid sewer line assessment tool. Sole proprietor.

- *The technology has been commercially available for over 8 years and has won numerous industry awards – including the WEF Innovative Technology Award
- *There are approximately 380 utilities around the world using the SL-RAT technology. • There are approximately 550 SL-RAT units in operation
- *The cost to operate the equipment ranges between \$0.05 and \$0.15 per foot – with two operators able to inspect 10-20,000 feet of pipe per day
- *The vast majority of pipes in municipal sewer systems do not need cleaning- that is 60-90% of pipes do NOT need cleaning – and this tool is able to help screen those pipes
- *The unit costs \$26,000 all in and you should see a payback period in the range of 4-16 weeks depending on usage and overall pipe condition in your system

Sparta's 52 miles of sanitary sewer line can be assessed in 210hrs very 1/2 years. Planned use would be 4hrs twice a week for 26weeks. Meaning the other half a year would be used to generate extra revenue.

Sparta's estimate'd ROI with this schedule is conservatively 12-16weeks.

The SL-RAT is a sound radar designed to identify blockages. The rated % blockage is numerically assigned and provide an outline of where to concentrate cleaning and c

Sparta needs to replace its non functional camera system regardless. The camera system that EnviroSight provides for \$106K includes turn key software for the collector competitors. There is no tools need to change wheels. The system uses and provides fix in place piping using a SS interlocking hard pipe. Extensions and spot repair are available with a 1-14 day turn a round and have 32 service sights. After my crew and I test each of the aforementioned crawlers the McQueen set has a much better crawler/camera. McQueen also better dependable service and software system than any other competitor.

To complement and support the camera crawler it is also equally if not more important to utilize the equipment effectively and efficiently. With this in mind Sparta should. The two part sewer probes are placed in two man holes. Fifteen different sound waves from the sender to the receiver illustrate the severity of a pipe's obstructions. The ranking of sewer line degradation allows the city to better assess times of more expensive equipment to run like the jetter and the camera. They have been a line only to determine that the complaintant's lateral is plugged. My calculations of a 12-16 week turn a round is based with the RL-RAT being used at \$.15/foot comparison increase.

I propose that Sparta purchased the SL-RAT at \$26,000 and EnviroSight's crawler at \$106K for a grand total of \$132,000.

Authored: Dale Passehl

08/03/2020

fering/ connecting to existing Ares GIS Collector software software communications (SWC)or USB transferred