

**FEBRUARY 22, 2020**

**Board Meeting**  
**\*public packet\***

# TIMBER COVE COUNTY WATER DISTRICT

## Board of Directors

### GENERAL MEETING AGENDA

February 22, 2020 ~ 10 A.M.

Working meeting at 9am

Fort Ross School 30600 Seaview Rd, Cazadero, CA 95421

- At 9 am prior to the General Session there will be a working meeting for the purpose of evaluating the Standing Rules & Regulations for possible changes and revisions. This working meeting is open to the public to listen to the board but not open for public comment.

### General Session

- |  |                  |
|--|------------------|
| 1. Call to Order   | Chris Feddersohn |
| 2. Approval of Agenda  | ACTION           |
| 3. Approval of Minutes from the January 25,2020 meeting                                  | ACTION           |
| 4. Public Comment  |                  |
| 5. Presidents Report   | Chris Feddersohn |
| 6. Operator Report   | Tanner Heirs     |
| 7. Treasurers Report   |                  |
| 7.1 14/15 audit  | Chris Feddersohn |
| 8. New Business Items  |                  |
| 8.1 Correspondence between board members   | Chris Feddersohn |
| 8.2 Retrieval of the Districts Treasurer documents<br>from former Treasurer John Howland | Chris Feddersohn |
| 8.3 Setting goals for 2020   | Chris Feddersohn |
| 8.4 Rate discussion  | Chris Feddersohn |
| 8.5 Approval of Bills  | ACTION           |
| 9. Setting of Agenda, Time & Place for March 28, 2020                                    |                  |
| 10. Adjournment  |                  |

**Public participation:** Meetings of the Directors of the Timber Cove County Water District are for the purpose of conducting the district's business. Individuals are invited to attend. Individuals may speak on any item on the published agenda only after being recognized by the President. If you wish to speak about a matter not on the published agenda, please make your comments during the portion of the meeting designated for Public Comment. Remarks are limited to two minutes. Please note that, with some exception, the Board does not engage in discussion or take action on non-agendized matters. However, the board may respond briefly to public comments, refer matters to staff, ask questions for clarification or schedule matters for future agendas. Disruptive or disrespectful individuals will be asked to leave.

#### **American Disability Act (ADA)**

The TCCWD Board complies with ADA (America Disabilities Act) requirements and upon request, will attempt to reasonably accommodate individuals with disabilities by making meeting material available in appropriate alternative formats pursuant to Government Code Section 54953.2). Anyone requiring reasonable accommodation to participate in the meeting should contact [Melany Collett], General Manager

Timber Cove County Water District  
January 25, 2020  
Fort Ross School

General Meeting Minutes

Meeting time: 10:06

Board attendees- Chris Feddersohn, John Rea, Tim Winterer, Kris Kilgore and Spencer Lipp

In attendance: Ron Case, Bob Litchner, Diane Feddersohn, John Gray, Ivan Trujillo, Anne Vernon

Chris Feddersohn begins meeting by introducing the new Board of Directors and asks each one to introduce themselves first introduction is Kris Kilgore to Spencer Lipp to Chris Feddersohn to John Rea and lastly Tim Winterer.

Chris Feddersohn moves to approve the Agenda. Kris Kilgore seconds motion passed.

Chris Feddersohn moves to approve the November 2019 minutes. Tim Winterer-seconds, John Rea- approves, Spencer Lipp abstain  
Kris Kilgore abstain- Motion passed

Public comment-no public comments at this time.

PRESIDENT'S REPORT: Chris thanks the new board for volunteering their time to serve. Chris Feddersohn explains how he wanted clarification as to the titles and positions of the board members. Chris reviewed TCCWD Standing Rules & Regulations. The section in the Standing Rules & Regulations that refers to directors wasn't very clear so Chris Feddersohn reached out to TCCWD attorney for further clarification. The attorney sent Chris Feddersohn specific CA Code 30520-30530 (code sheet attached) and per the CA Code 30520-30530 TCCWD had not been adherent to the code in the past. During the closed session previous this meeting the CA code 30520-30530 was reviewed by the board. Chris Feddersohn explains that he will be presenting motions in this meeting relating to the positions of the directors. The code says that the board must elect a President and the board *MAY* elect a Vice President and that is all. No director can serve as treasurer ,manager. auditor or secretary. Chris explains we will be changing the structure of the board with that in mind. Chris Feddersohn proceeds to read sections of

the CA code aloud 30520-30530 . Chris Feddersohn explains the hours spent on the President position. Chris Feddersohn further explains that he would like to continue to serve as President if elected and would like the Vice President position to be filled as well. John Rea the current Vice President states the approximate hours he spends as the Vice President. Chris Feddersohn explains that the other 3 directors will be serving on the board for approximately 2 hours a month for the board meetings. Chris Feddersohn states that no director other than the President and Vice President can represent TCCWD outside a meeting. The position of President shall represent TCCWD. Chris Feddersohn states other directors can represent the board providing the request is done in a meeting and voted upon.

Chris Feddersohn states that TCCWD did not have a December meeting due to the holidays. Shift operator Cory Cresswell took the month of December off. During the month of December TCCWD had the opportunity to do a shadow program and hired Jeff Hughes a seasonal employee. He covered for Cory Cresswell. Chris Feddersohn further explains the success of this shadow program and in the future would like to have a training program by way of reaching out to The Santa Rosa Junior College and possibly doing a program with their water students. Kris Kilgore asks how TCCWD paid for Jeff Hughes in December. Melany Collett explains that Jeff Hughes was a temporary seasonal hire for December and was paid minimum wage. Chris Feddersohn states Jeff was hired at \$15.00 an hour. Kris Kilgore asks if TCCWD should continue the shadow program with Jeff Hughes. Tanner Hiers explains it was seasonal only and Jeff Hughes has full time employment but could be reconsidered at a later date. Kris Kilgore asks if it's an updated positions couldn't Jeff continue? For reasons of Liability & Insurance that is not an option at this time. Melany Collett states that she looked into the liability and TCCWD would like to do a shadow program but we will need to request the advice of our insurance carrier.

Member Ron Case raised his hand and stated that the TCCWD board previously had a bookkeeper, CPA and treasurer. He wanted to know how that would be handled now? Chris Feddersohn replied he would explain when he gets to that part of the Agenda.

Ron Case asks another question , during a water emergency he typically only calls Chris Feddersohn directly. Chris Feddersohn , Melany Collett and Tanner Hiers all gave the contact information on how to contact TCCWD in a water emergency. The numbers are posted on TCCWDs website [timbercovecountywaterdistrict.org](http://timbercovecountywaterdistrict.org) and posted on the door at both locations, the plant and the admin office.

John Gray asks if there is a difference between the Brown Act and the Davis Sterling Act as far as discussing business outside a meeting? John Gray wanted to know if the

Brown Act prevents sending out an email to all members of the board should a business matter come up outside a meeting. Chris Feddersohn states under the Brown Act TCCWD business cannot be conducted outside an open meeting but information relating to business can be sent out via email to the board for informational purposes only. Chris Feddersohn explains that any business needing to be discussed can be brought to one of the two managers Tanner Hiers or Melany Collett, they then determine what if any information needs to be sent to the board prior to an open meeting.

Chris Feddersohn asks Tanner Hiers to tell how he and Jeff Hughes discovered and fixed a leak. Tanner states at the end of the day he and Jeff Hughes went out in severe weather to locate a leak on the ocean side of Amanita. The water was dropping at a critical rate. Battling high winds and heavy rain they quickly discovered the wrong size PVC pipe had been fitted onto the angle stop and corrected the situation. Chris commended Tanner Hiers and Jeff Hughes for their dedication. John Rea suggested if this happens again TCCWD may want to invest in equipment so operators don't have to do this by hand.

#### **OPERATORS REPORT**

Tanner Hiers hands out the maintenance schedule for the plant and explains the maintenance schedule [see attached]. There are other items but these must be done. This schedule does not include State Requirements. This is just basic maintenance and operations. At times there will be a part or equipment that may falter but there are manuals for those items. Tanner Hiers is confident this report if followed would allow the Plant to be maintained on schedule. Chris Feddersohn did not request this schedule to be done and praises Tanner Hiers for going above and beyond his duties .

Tanner Hiers asks the board to consider buying a larger propane tank by providing a quote. This request came about because of the most recent evacuation due to the NorCal fires. PGE was doing scheduled outages as a result TCCWD was low on propane and had some trouble getting propane delivered due to the evacuations.

Kris Kilgore brings a motion to approve the propane tank.

Ron Case asks about screening it. Kris Kilgore says Michael Hallet has plans designed for screening around the plant, and asks if the board can look into the designs. Kris Kilgore says the screening is a capital cost .

Chris Feddersohn acknowledges the board should make the motion with a couple changes to the quote such as ties down in the concrete for future screening,. Tanner

Hiers asks if we could move forward with a quote if it's within reason and the board agrees.

Kris Kilgore moves \$1737.53 for tank and installation Chris Feddersohn- seconds  
Motion passed

### **DECEMBER BILLS**

Melany Collett interjects that we need to approve the bills that we paid for December as there was not a meeting. Bob Litchner helps with the verbiage of approving the bills after the fact, "move to ratify to pay the bills last month due to no meeting".

Kris Kilgore moves-to approve December bills Chris Feddersohn -seconds  
Motion passed

### **TREASURERS REPORT**

No report. TCCWD didn't have a Treasurer for this meeting. Chris Feddersohn informs everyone the 14/15 audit is in draft form.

### **WATER TREATMENT PLANT UPGRADE**

Chris Feddersohn moves to - Water Treatment Plant Upgrade

Tanner Hiers speaks to identifying the biggest problem in 2019 -- disinfectant byproducts that have been a problem since 2012. This could have been earlier than that but this is the date Tanner Hiers has tracked it back to.

TCCWD received a violation in 2015. The problem was not solved rather a "band aid" solution was used. Tanner Hiers explains how putting a "band aid" on it could be potentially sacrificing other water qualities and safety measures. In his opinion the qualities and safety measures they were sacrificing are scarier than the disinfected byproduct itself. The treatment plant upgrade will eliminate disinfected byproducts for good. This would be a permanent solution. Presently we are not in violation or need to be concerned but it's something to be taken care of now.

Kris Kilgore asked if the operators were still sampling Lee Drive, Tanner Hiers answered yes and that he was already on this issue last year. He looked at prior records and noticed Lee Drive was always high. When he looked further he noticed what the previous operators were doing to solve it. He did not see that their plan was working so began taking his own samples to see for himself if it was really a problem. This was not required by the State. Tanner found there was a problem and took a required sample to the State letting them know in advance that he was aware of the problem and high readings. Due to Tanner Hiers being proactive the State is willing to work us. The state

lowered the requirements for levels of THMs and MCLs in water distribution systems. TCCWD is below the required levels in some areas and higher in others. We did not receive a violation, but rather a year to fix it. Anytime water treatment is changed the State must approve it. Tanner Hiers submitted a plan to the State for a permit process. The State submits the plan to their engineers and sends out an engineer for an onsite inspection. Tanner Hiers solution is an aerator in Tank 3. Tanner Hiers did samples on each tank and Lee Drive to see where these byproducts were forming. Tank 3 is the right place to add the aerator. Tanner Hiers is working with a very experienced company to install the aerator. They will install a blower to the tank that blows these byproducts out of the water. Two quotes are being prepared now one with the equipment only and the other with the equipment plus installation. Melany Collett asked what the approximate cost would be? Tanner Hiers answered \$50,000.00. Tanner Hiers states this is a major plant upgrade and the problem has been on the radar with Breijle & Race for some time. The added benefit is the water would be consistent throughout the distribution system.

Tanner Hiers says he will present the quote at the next board meeting if approved.

Chris Feddersohn moves to approve the Aerator upon presentation of the Aerator quote at the next meeting. Spencer Lipp seconds, motion passed

Tanner states the order of the plant upgrade should be, clean the tanks, install aerator and then Scada. Scada could be tied into it all at a later date.

### **INTERNAL ORGANIZATION**

Chris Feddersohn moves to the next agenda item - Internal organization - Per CA code Article 30520-30530 Article 2 has to do with the board. He reads a portion of the code as read earlier.

### **PRESIDENT**

Chris Feddersohn begins with the Poston of President and explains he would want to continue in the position. He believes these positions should be brought up yearly.

John Rea nominates Chris Feddersohn as President Spencer Lipp-Seconds  
Motion passed

### **VICE PRESIDENT**

Chris Feddersohn moves to nominates John Rea as Vice President  
Tim Winterer-seconds

Kris Kilgore raises her hand and nominates herself as Vice President. She explains John Rea has expressed recently in a meeting that the board meet every other month. She thinks perhaps since he has been on the board awhile and *she state she does not want to put words in his mouth* but this is a lot of work for him. She is a retired water engineer. She is very familiar with the system and perhaps it's time for John to step back and relax a little bit.

Bob Lichtner asks if John Rea would like to respond.

John Rea says he takes ownership of the responsibilities of the board. As the former President he does believe the positions should rotate so that everyone has the opportunity to be responsible for what comes out of the water district. He looks forward to being the Vice President

Kris Kilgore responds that as far as rotating positions John has been in the position of President and Vice President for the last 5 years. John Rea responds that he has been on the board 3 years. Kris Kilgore responds it's time for a new person.

Chris Feddersohn then reminds Kris Kilgore that when she stated John Rea mentioned meeting every other month - this was done in a Closed Session and that was a violation of the Brown Act.

Chris Feddersohn states that there are two motions on the table Kris Kilgore and John Rea as Vice President. Chris Feddersohn states that we do not have a second to move for Kris Kilgore as Vice President therefore the motion before us is John Rea as Vice President.

Vice President motion brought by Chris Feddersohn Tim Winterer- seconds  
Kris Kilgore-neigh Motion passed

### **GENERAL MANAGER**

Chris Feddersohn moves onto General Manager- rereads the CA Code that a director shall not be manager, secretary or treasurer.

Chris Feddersohn states he would like to split the General Manager position between Melany Collett and Tanner Hiers.

Chris Feddersohn make a motion for Tanner Hiers as Chief operator and Plant Manager and Melany Collett as Administrative Manager.



Ron Case states in the past there has been one General Manager and why the change? Chris Feddersohn states that a General Manager needs a large skill set and that TCCWD had tried previously with one General Manager but it did not work out. Having a manager who oversees the plant and a manager who oversees the Administrative work facilitates a smooth operation.

Kris Kilgore states that a licensed plant operator is needed to manage the water plant and in this case, it is reasonable to have Tanner Hiers as the Plant Manager as he is licensed. Chris Feddersohn states that he sought legal guidance on this and there is not a legal requirement for the General Manager position other than using good common sense and practices.

Bob Litchner states that TCCWD is clarifying what we already have in place.

Chris Feddersohn asks if there is a second to make Tanner Hiers and Melany Collett co-managers Tim Winterer-seconds, Motion passed.

#### **SECRETARY**

Chris Feddersohn moves to create the Secretary a paid position and nominates Melany Collett. Chris states after speaking with the former Secretary Stu Drake that it's about an 8 hour a month position. The Secretary shall come to the Saturday meeting with the board packets, take the minutes and perform the duties of Secretary to the board. Chris Feddersohn states that appointing this position per CA Code is in the best interest of the board should they need to hire another secretary in the future. Tim Winterer-seconds - Motion past

Chris Feddersohn states there will be an amendment to the Secretary position as it states the Secretary and President positions are responsible for signing large contracts etc. for the district. Chris Feddersohn would like to add the part of (signing contracts etc.) to the position of the Treasurer as per CA code it states you can combine positions.

#### **TREASURER**

Chris Feddersohn moves onto Treasurer opening- The treasurer is a paid position as well as the Secretary Position.

Chris Feddersohn moves to hire John Gray as Treasurer  
Spencer Lipp- seconds

Chris Feddersohn states that John Gray is not an accountant but his forensic work is stellar as he straightened out the books for the HOA. Now the HOA is in good standing

and lawsuits have gone away. Chris Feddersohn would like John Gray to do the same for TCCWD. Chris further explains that TCCWDs priority is finishing the audits and by doing that the Treasurer can work on getting the price of water down and other things Chris Feddersohn would like to get done this year. He believes John Gray can get it done.

John Gray states that he is not an accountant, but he has managed millions of dollars for his previous company and has managed over 2200 employees. Part of his job was overseeing audits from time to time, as he would work directly with the auditor or perform audits himself. He does have experience as far as auditing and managing. John Gray would like to know from TCCWD what is the scope of what they want as far as reporting? How much does TCCWD want as far as forensic work? Who would he report to? Would he report to the President or the vice President? The district managers? Would he start on the next 4 years of audits? He can do that he states ... Melany Collett interjects that the district has a CPA and bookkeeper that can work with John Gray directly.

John Rea interjects that perhaps John Gray can sit in on a meeting with the board to discuss Treasurer position in detail. John Gray asked if that was allowed. Chris Feddersohn said he would check. John Rea said he would welcome John Gray setting up a strategic plan for the District i.e. Capital Improvements and seeing what the cost of water is and charging the actual cost vs overcharging for water.

John Gray wants to know if the district wants a detailed report as he has done for the HOA every month or to give a report to the President only? John Gray would like some protection as the community can be litigious and if he should discover anything in reviewing the books that could be embarrassing to someone, he's concerned about being covered.

Chris Feddersohn agrees that those are valid concerns and will seek legal guidance for the liability/coverage as well as the job description of the Treasurer position, so TCCWD can move forward with a Treasurer in place. Chris Feddersohn states TCCWD will schedule a conference call with John Gray and himself to address all the questions and concerns.

Chris Feddersohn moves to nominate John Gray as Treasurer  
John Rea -seconds

Spencer Lipp says John Gray has raised some concerns and Spencer does not know what the gravity of those concerns are and what it would take to get passed these

concerns. Spencer Lipp says not knowing that, are we going through an effort here that we won't be able to get passed to the real concerns John Gray has.

Bob Leichtner says anyone who may consider being the Treasurer for the District may have the same concerns as John Gray and seeking the advice of the attorney is necessary.

Chris Feddersohn states the Districts attorney works with other Special Districts and has probably faced these concerns with other districts. TCCWD doesn't have the answers John Gray is seeking but will get the answers for him. Chris Feddersohn says TCCWD will move forward with John Gray if he gets the answers he's seeking or go back to the table with an opening for position of Treasurer.

Chris Feddersohn calls for the remaining votes for Treasurer. Kris Kilgore-neigh  
Motion passed

Meeting adjourned at 12:05

Attest \_\_\_\_\_

Date: \_\_\_\_\_

The Secretary of TCCWD hereby certifies the above minutes were approved and adopted by  
The Board on the above date

Here's a list of projects that are currently under way, are in line, or are pipe dreams. Let us know your ideas.

1. **Standardized Operations.** Month-by-month and year-by-year systems in place that are enforceable by the Board and staff, based on regulations from the Sonoma Water Resources Control Board.
2. **Wireless capability** for off-site controls of treatment plant valves & pumps. Allows sending data needed to create automated monthly reports.
3. **Sound dampening & secure enclosures** for all District infrastructure.
4. **More decanted-water storage tanks** to improve backwash capability.
5. **Sandblasting, painting, & restoration** of existing piping, pressure vessels, & tanks.
6. **Training program** for interns/recruits/volunteers.
7. **Clean tank interiors:** May 2020, then every 5 years.
8. **Annual newsletter / online updates / photos.**
9. **Purchase more land** around reservoir.
10. **Win an award** for Timber Cove for operation excellence and innovation.
11. **Secure added water sources**, such as redrilling the well at the weir.
12. **Manual** to standardize creating annual reports.
13. **Study** water-use incentive programs; offer rewards to good customers.
14. **Install meters** at all properties. Coordinate installation with HOA as it works on roads.
15. **Install new concrete sludge bed** w/ recycled water capabilities. (2nd biggest use of water)
16. **Find more income;** sell water to more clients outside the District.
17. **Find means** to capture and recycle system flush water next to certain hydrants.
18. **Pressure:** decrease pressure in high-pressure zones & increase in low-pressure zones.
19. **Redo electrical wiring.**
20. **Improve taste and odor;** add clarification process to existing plant.
21. **Allow bypass** for Tank 2.
22. **Clean the reservoir.**
23. **Tour of treatment plant:** If interested, please call us to set a date and time.

Timber Cove County Water District meetings are traditionally held on the 4<sup>th</sup> Saturday of every month at 10am at Fort Ross School, 30600 Seaview, Cazadero CA

**PLEASE JOIN US on January 25, 2020 to see our plans for the future!**

**ATTACHMENTS TO  
JANUARY 25, 2020  
MINUTES**



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**WATER CODE - WAT**

**DIVISION 12. COUNTY WATER DISTRICTS [30000 - 33901]** (*Division 12 added by Stats. 1949, Ch. 274.*)

**PART 3. INTERNAL ORGANIZATION [30500 - 30586]** (*Part 3 added by Stats. 1949, Ch. 274.*)

**CHAPTER 1. Officers and Employees Generally [30500 - 30547]** (*Chapter 1 added by Stats. 1949, Ch. 274.*)

**ARTICLE 2. The Board [30520 - 30530]** (*Article 2 added by Stats. 1949, Ch. 274.*)

**30520.** Within 30 days after the election of the first directors and thereafter within 30 days after taking office pursuant to Section 10554 of the Elections Code the directors shall meet and shall elect one of their number president and may elect one of their number vice president.

(*Amended by Stats. 1994, Ch. 923, Sec. 236. Effective January 1, 1995.*)

**30521.** The board shall:

- (a) Provide for the time and place of holding its regular meetings.
- (b) Provide for the manner of calling special meetings.

(*Amended by Stats. 1968, Ch. 299.*)

**30522.** At its organization meeting the board may transact any business of the district.

(*Added by Stats. 1949, Ch. 274.*)

**30523.** The board shall act only by ordinance, resolution, or motion.

(*Added by Stats. 1949, Ch. 274.*)

**30524.** A majority of the board shall constitute a quorum for the transaction of business.

(*Added by Stats. 1949, Ch. 274.*)

**30525.** No ordinance, resolution, or motion shall be passed or become effective without the affirmative votes of at least a majority of the members of the board.

(*Added by Stats. 1949, Ch. 274.*)

**30525.5.** A district may destroy a record pursuant to Chapter 7 (commencing with Section 60200) of Division 1 of Title 6 of the Government Code.

(*Added by Stats. 2005, Ch. 158, Sec. 38. Effective January 1, 2006.*)

**30526.** Except where action is taken by the unanimous vote of all directors present and voting, the ayes and noes shall be taken upon the passage of all ordinances, resolutions, or motions and entered upon the minutes of the board.

(*Added by Stats. 1949, Ch. 274.*)

**30527.** The enacting clause of all ordinances passed by the board shall be: "Be it ordained by the board of directors of \_\_\_\_\_ County Water District as follows:"

(*Added by Stats. 1949, Ch. 274.*)



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**WATER CODE - WAT**

**DIVISION 12. COUNTY WATER DISTRICTS [30000 - 33901]** ( Division 12 added by Stats. 1949, Ch. 274. )

**PART 3. INTERNAL ORGANIZATION [30500 - 30586]** ( Part 3 added by Stats. 1949, Ch. 274. )

**CHAPTER 1. Officers and Employees Generally [30500 - 30547]** ( Chapter 1 added by Stats. 1949, Ch. 274. )

**ARTICLE 3. Other Officers and Employees [30540 - 30547]** ( Article 3 added by Stats. 1949, Ch. 274. )

**30540.** (a) The board shall, at its first meeting or as soon thereafter as practicable, appoint by a majority vote a general manager and a secretary.

(b) The board shall also, by majority vote, do either of the following:

(1) Appoint an auditor or treasurer to carry out the duties required by Section 30582 and other duties required by the board.

(2) Retain an auditor as an independent contractor, other than the auditor or treasurer appointed pursuant to paragraph (1), to conduct an annual audit of the district's books, records, and financial affairs.

(Amended by Stats. 1993, Ch. 906, Sec. 15. Effective October 8, 1993. Operative January 1, 1994, by Sec. 24 of Ch. 906.)

**30541.** A director shall not be the general manager, secretary, treasurer, or auditor.

(Amended by Stats. 1991, Ch. 454, Sec. 4.)

**30542.** The general manager, secretary, treasurer, and auditor shall each receive the compensation determined by the board and shall serve at its pleasure.

(Amended by Stats. 1991, Ch. 454, Sec. 5.)

**30543.** The same person may serve as general manager and secretary, secretary and auditor, or secretary and treasurer.

(Amended by Stats. 1991, Ch. 454, Sec. 6.)

**30544.** The board may at any time appoint or employ and prescribe the authorities and duties of other officers, employees, attorneys, and engineers necessary or convenient for the business of the district, each of whom shall serve at the pleasure of the board.

(Added by Stats. 1949, Ch. 274.)

**30545.** The general manager, secretary, auditor, treasurer, and other employees or assistants of the district, as required by the board, shall each give a bond to the district conditioned for the faithful performance of his or her duties as the board may provide.

(Amended by Stats. 1991, Ch. 454, Sec. 7.)

**30546.** Any regular employee of a district who is a deputy sheriff, or who has successfully completed the peace officer training course described in subdivision (a) of Section 832 of the Penal Code, and is designated by appropriate resolution of the board, has the authority to issue citations in accordance with the provisions of Chapter 5c (commencing with Section 853.5) of Title 3 of Part 2 of the Penal Code for violations of laws of the state and ordinances of a city, a county, or the district, respecting trespass upon, damage to, interference with, or contamination of, any water, watercourse, land, structure, or facility owned, used, or controlled by the district for any purpose.



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**WATER CODE - WAT**

**DIVISION 12. COUNTY WATER DISTRICTS [30000 - 33901]** ( Division 12 added by Stats. 1949, Ch. 274. )

**PART 3. INTERNAL ORGANIZATION [30500 - 30586]** ( Part 3 added by Stats. 1949, Ch. 274. )

**CHAPTER 2. Board and Officer Activities [30575 - 30586]** ( Chapter 2 added by Stats. 1949, Ch. 274. )

**30575.** The board is the governing body of the district.

(Added by Stats. 1949, Ch. 274.)

**30576.** The powers of districts enumerated in this division shall, except as therein otherwise provided, be exercised by the board.

(Added by Stats. 1949, Ch. 274.)

**30577.** Each member of the board, or the secretary, may administer oaths and affirmations in connection with the taking of testimony at any hearing, investigation, or other matter pending before the board.

(Added by Stats. 1949, Ch. 274.)

**30578.** The president shall:

- (a) Sign all contracts on behalf of the district.
- (b) Perform other duties imposed by the board.

(Added by Stats. 1949, Ch. 274.)

**30579.** The secretary shall:

- (a) Countersign all contracts on behalf of the district.
- (b) Perform other duties imposed by the board.

(Added by Stats. 1949, Ch. 274.)

**30579.5.** Notwithstanding the provisions of subdivision (a) of Section 30578 and subdivision (a) of Section 30579, the board may alternatively authorize, subject to such limitations and conditions as it may determine, the execution of contracts on behalf of the district by another officer or officers of the district.

(Added by Stats. 1973, Ch. 241.)

**30580.** The general manager shall:

- (a) Have full charge and control of the maintenance, operation, and construction of the water works or water-works system of the district.
- (b) Have full power and authority to employ and discharge all employees and assistants at pleasure.
- (c) Prescribe the duties of employees and assistants.
- (d) Fix and alter the compensation of employees and assistants subject to approval by the board.

(Added by Stats. 1949, Ch. 274.)

**30581.** The general manager shall also:

- (a) Perform other duties imposed by the board.



# December SWRCB Report

January 4th, 2019

## TIMBER COVE COUNTY WATER DISTRICT

Tanner S Hiers, Chief Plant Operator  
 System ID: 4900584  
 22098 Lyons Court  
 Jenner, CA 95450:  
 (707) 847-3080 Administration

## STATE WATER RESOURCES CONTROL BOARD

Misha Anderson, Associate Engineer  
 Division of Drinking Water  
 50 D Street, Suite 200  
 Santa Rosa, CA 95404

TCCWD Production vs Losses	Gallons	% of Total	Notes	Average GPD
Plant Production:	361,117	100%	Production Meter	11,649
Billable Water:	251,852	70%	% of Production	8,124
Timber Cove Inn	40,766	16%	% of Production	1,315
Non Billable Water (includes recycle)	109,265			
Operational usage:	112,570	31%	Operational Usage	3,499
Backwashing/FTW filter trains:	38,954		Operational Usage	
Distribution flushing:	26,000		Operational Usage	
Instrument recycle meter: treated	37,616		Operational Usage	
Non-Billable Water	35,755	35%	% of operational usage	1,153
Water in Solution Tanks Returned	562			
Water hidden in tanks	-10,000			
Return to Reservoir:	73,510	72%	% of operational usage	2,371
Unaccounted losses:	16,695	5%	% of Production	539

## PRODUCTION

For the month of December, we produced a total of 361,117 gallons of finished water according to our meters, averaging around 11,649 gallons per day. 70% of that water made it to customers at around 251,852 gallons, averaging 8,124 gallons per day.

For the month of December, we used 16.5 gallons of 12.5% Sodium Hypochlorite and 85.9 pounds of Aluminum Sulfate, which resulted in an average dosing of 8.3 mg/L and 30 mg/L respectively.

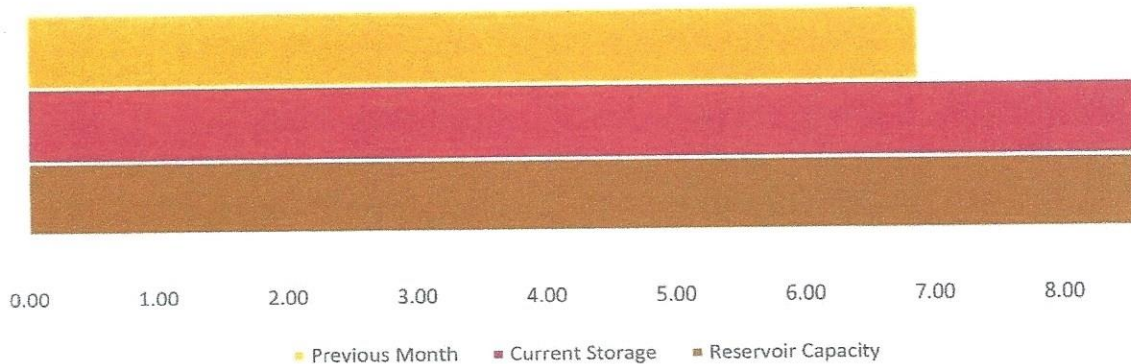
The Timber Cove Inn used 40,766 gallons which accounted for 16% of total production or 1,315 gallons per day on average. The Timber Cove Inn's meter was read on the 31st of December.

## TIMBER COVE CREEK DIVERSION (PUMPING)

We pumped a total of 1,529,924 gallons from the weir to treatment leaving the reservoir water depth at 24 ft by the end of the month, leaving us with storage of 8.75 MG of raw water.

Overflow is hit at 25 ft according to our pressure transducer, or 9.4 million gallons.

Reservoir Capacity by End of Month



## BACKWASHING

Backwashing of both filter trains resulted in 38,924 gallons used.

## RETURN TO RESERVOIR

The total amount of water returned to the reservoir was 73,510 gallons. This accounts for 72% of our operational usage.

## LOSSES

Our total final losses are 16,695 gallons. This loss was due to a leak on our side of the meter on 12/6/19.

## SAMPLING

Took a Nitrate as (n) sample from location 005 and a Bact sample from Hydrant # 2-1 (12-11-19)

## ALARM TESTING

We tested all alarms on December 18<sup>th</sup>. All alarms work.

## MAINTENANCE

### CL10 ANALYZER

CL10 calibrated 12-1

### RESERVOIR AERATION

We have officially gotten approval to use our old Aerator if when it needs replacement, we replace it with an NSF certified one. Device was installed 5/28/19.

### NTU METERS

Meters were calibrated on 11/12. The CFE TU5300 was calibrated 12/31/19

### SYSTEM FLUSHING

System flushing was carried out in September, and a total of 26,000 gallons was flushed from the distribution system.

### RAW WATER INTAKE

The raw water intake screen was replaced 8/20.

## OPERATIONAL DIFFICULTIES

Throughout the month of June there were several incidents of operational difficulties resulting in abnormal conditions of plant operations and readings, listed below:

Date	Description
12/26- 12/29	Sor Pressure switch leaking diaphragm and bad micro switch diagnosed then replaced(working now)

intermittent	Ultra-sonic tank level reader is giving false reads, Got LU30 to work by adding a sight tube to focus ultrasonic signal 1/2/20
12/11-12/31	<p>During an attempt to fix the LU30 wiring power was introduced to a data wire and destroyed the YAB024 circuit chip in the SC1000 rendering the production meter and LU30 temporarily inactive in the SC1000. After a long troubleshooting process (determining the problem was the YAB024 circuit chip rather than the YAB018 chip, which needed to be ordered and installed to make this determination) we were able to combine all the inputs and outputs onto one SC1000 rather than the original two that were in operation. After the SC1000 was fixed the LU30 was still not able to hold an accurate reading (troubleshoot everyday) until we installed a sight tube on the LU30 1/2/20.</p> <p>During this process we had to turn off the power 12/11 12:25pm-1:15pm , 12/18 1:55pm-2:40pm, 12/20 1:00-2:55pm and 12/21 2:10pm-2:35pm.</p>
Intermittent	The CFE TU5300 was reading higher intermittently even after cleaning and calibration, it turns out that the tubing leading from the source to the NTU meter had gotten some debris inside of it, the problem was fixed on 1/2/19 when we blew out the line with our air compressor.

**Timber Cove County Water District  
Two Culligan Filtration Units/Disinfection  
Monthly Report Summary**

SN 4900584

December-2019

Dec-19 Date	Source Water		CFE		Filter Train 1		Filter Train 2		Cleanwell				Giardia cyst	
	Prod Gal	Turbidity 50 <sup>th</sup> 95 <sup>th</sup>	Turbidity 50 <sup>th</sup> 95 <sup>th</sup>	Prod Gal	Turbidity 50 <sup>th</sup> 95 <sup>th</sup>	Prod Gal	Turbidity 50 <sup>th</sup> 95 <sup>th</sup>	Prod Gal	Cl <sub>2</sub> (mg/L) 5 <sup>h</sup> 50 <sup>h</sup> 95 <sup>h</sup>	pH 5 <sup>h</sup> 50 <sup>h</sup> 95 <sup>h</sup>	Temp, C 5 <sup>h</sup> 95 <sup>h</sup>	Delivered Gal	Log Inactivation Range (5 <sup>h</sup> 50 <sup>h</sup> )	
Sun-1	13,203	0.6,0.7	0.061, 0.073	-	-	0.042, 0.066	2.36	13,338	1.89, 1.97, 2.05	6.87, 6.88, 6.89	11.2, 11.3	16,429	3.4 - 761.4 (15.2, 109.8)	
Mon-2	-	-	-	-	-	-	-	-	-	-	-	36,226	-	
Tue-3	13,601	0.6,0.8	0.091, 0.097	0.079, 0.084	2.73	13,601	-	-	1.59, 1.87, 1.97	6.81, 6.85, 6.87	12.6, 12.9	28,610	3.5 - 143.9 (4.1, 35.2)	
Wed-4	8,096	0.5,0.5	0.087, 0.089	0.077, 0.078	2.56	6,056	-	-	1.65, 1.94, 2.04	6.82, 6.86, 6.88	12.6, 12.6	8,638	32.1 - 40.3 (32.9, 36.3)	
Thu-5	9,946	0.5,0.5	0.091, 0.118	0.071, 0.106	2.47	9,946	-	-	1.42, 1.53, 1.91	6.83, 6.84, 6.89	12.8, 12.9	42,856	6.5 - 67.5 (9.4, 31.5)	
Fri-6	19,666	0.5,0.7	0.091, 0.097	0.071, 0.071	2.32	8,055	0.065, 0.078	2.63	1.48, 1.80, 2.19	6.84, 6.85, 6.90	12.9, 12.9	30,766	29.4 - 75.4 (31.3, 35.0)	
Sat-7	35,880	0.6,0.7	0.083, 0.091	-	-	0.052, 0.062	2.49	35,880	1.60, 2.07, 2.20	6.86, 6.87, 6.92	13.1, 13.2	69,321	0.4 - 42.4 (25.0, 28.4)	
Sun-8	27,599	0.6,0.6	0.078, 0.110	0.080, 0.090	2.69	13,157	0.043, 0.045	2.22	1.48, 1.55, 1.61	6.82, 6.84, 6.86	13.2, 13.5	40,435	24.9 - 64.3 (25.0, 26.0)	
Mon-9	22,850	0.6,0.6	0.100, 0.100	0.078, 0.078	2.39	4,369	0.056, 0.058	2.67	1.61, 1.64, 1.65	6.82, 6.82, 6.87	13.2, 13.4	22,850	26.0 - 80.0 (27.1, 27.7)	
Tue-10	18,713	0.6,0.6	0.102, 0.182	-	-	0.054, 0.092	2.64	18,713	1.53, 1.95, 2.06	6.85, 6.90, 6.91	12.5, 12.9	21,374	3.8 - 50.2 (24.9, 27.4)	
Wed-11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thu-12	7,088	0.4,0.5	0.094, 0.136	-	-	0.043, 0.084	2.52	7,088	1.63, 1.85, 1.89	6.85, 6.86, 6.86	13.1, 13.2	15,264	11.7 - 32.9 (24.4, 32.0)	
Fri-13	4,589	0.4,0.4	0.096, 0.144	-	-	0.041, 0.097	2.45	4,589	1.80, 1.81, 1.82	6.86, 6.86, 6.86	13.1, 13.1	6,656	34.7 - 66.4 (34.7, 34.9)	
Sat-14	7,248	0.4,0.4	0.100, 0.160	-	-	0.041, 0.117	2.42	7,248	1.67, 1.78, 1.85	6.85, 6.85, 6.86	13.0, 13.2	13,739	17.7 - 34.7 (26.8, 33.6)	
Sun-15	6,407	0.4,0.4	0.100, 0.102	-	-	0.036, 0.038	2.36	8,407	1.78, 1.87, 1.90	6.75, 6.82, 6.84	12.3, 12.4	14,764	2.1 - 35.2 (26.9, 32.6)	
Mon-16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tue-17	6,790	0.5,0.6	0.109, 0.129	-	-	0.039, 0.066	2.34	8,790	1.72, 1.81, 2.08	6.85, 6.85, 6.86	11.6, 11.7	28,299	24.7 - 48.1 (24.7, 28.5)	
Wed-18	15,172	0.8,0.9	0.137, 0.139	0.086, 0.087	2.67	9,906	0.036, 0.037	2.16	2.22, 2.33, 2.36	6.83, 6.85, 6.87	11.3, 11.4	21,651	6.4 - 66.9 (31.0, 38.7)	
Thu-19	24,384	0.7,0.8	0.135, 0.138	0.082, 0.086	2.67	24,384	-	-	2.32, 2.40, 2.43	6.87, 6.87, 6.87	11.6, 11.7	31,650	2.5 - 47.4 (39.4, 40.3)	
Fri-20	4,570	0.7,0.7	0.135, 0.338	0.073, 0.299	2.48	4,570	-	-	2.15, 2.20, 2.21	6.86, 6.86, 6.87	12.2, 12.3	8,150	3.9 - 90.2 (4.7, 43.8)	
Sat-21	16,793	0.7,0.8	0.141, 0.173	-	-	0.056, 0.121	2.73	16,793	2.06, 2.08, 2.19	6.86, 6.86, 6.87	12.1, 12.1	21,980	5.0 - 55.4 (22.1, 29.4)	
Sun-22	10,719	0.8,1.0	0.141, 0.159	-	-	0.053, 0.081	2.63	10,719	1.99, 2.12, 2.19	6.84, 6.85, 6.85	12.2, 12.4	15,680	29.4 - 115.1 (34.5, 36.4)	
Mon-23	-	-	-	-	-	-	-	-	-	-	-	6,713	-	
Tue-24	21,204	0.8,0.8	0.181, 0.374	-	-	0.095, 0.309	2.57	21,204	1.63, 1.99, 2.11	6.76, 6.80, 6.86	10.9, 11.0	30,442	1.2 - 31.2 (24.1, 28.1)	
Wed-25	-	-	-	-	-	-	-	-	-	-	-	9,028	-	
Thu-26	6,331	0.9,1.0	0.165, 0.263	-	-	0.051, 0.142	2.63	6,331	1.65, 1.79, 1.92	6.82, 6.88, 6.92	10.8, 11.1	7,113	22.3 - 48.7 (23.0, 24.8)	
Fri-27	20,391	0.7,0.6	0.181, 0.244	0.076, 0.094	2.57	11,895	0.042, 0.212	2.55	1.82, 2.03, 2.09	6.85, 6.85, 6.86	10.1, 10.5	26,699	1.7 - 51.8 (21.7, 36.5)	
Sat-28	14,557	0.8,0.8	0.181, 0.222	0.073, 0.119	2.55	14,557	-	-	1.62, 2.05, 2.10	6.84, 6.85, 6.80	10.1, 10.6	14,887	5.2 - 35.8 (6.3, 59.2)	
Sun-29	19,598	0.7,0.8	0.183, 0.264	0.069, 0.207	2.46	3,468	0.054, 0.072	2.72	2.10, 2.20, 2.41	6.84, 6.87, 6.90	10.4, 10.5	27,303	1.4 - 43.9 (19.2, 31.6)	
Mon-30	986	0.7,0.7	0.181, 0.181	-	-	0.050, 0.053	2.63	986	2.39, 2.40, 2.41	6.87, 6.87, 6.87	10.3, 10.3	2,057	24.8 - 30.5 (25.1, 27.7)	
Tue-31	19,797	0.7,0.7	0.120, 0.262	0.063, 0.070	2.38	7,046	0.052, 0.200	2.65	2.20, 2.24, 2.43	6.85, 6.87, 6.90	11.0, 11.5	38,518	4.9 - 71.1 (24.4, 35.6)	
95 <sup>th</sup> /Sum	378,176	0.8	0.194	0.092	2.67	131,050	0.147	2.69	2.37	6.90	13.3	658,096	76.3	

Note: 5th, 50th and 95th are percentiles.

Print Name: Tanner S Hiers Operator's Treatment Grade: T2/D2  
 Signature:  Date: 5-Jan-20

## Disinfection Process Data

Disinfectant residual type (check one):     Free Chlorine     Combined Chlorine     Other

Incidents of chlorine residuals less than **0.2 mg/L** at the plant effluent:

Date of Incident	n/a			
Duration	n/a			
Date Dept. Notified	n/a			

Total number of incidents where residual is < 0.2 mg/L: 0  
 Meet Standard (i.e. is not less than 0.2 mg/L for more than four hours (Y/N)? Yes

Number of distribution system residual samples collected:	daily
Number of distribution system samples for HPC only:	
Total number of residual and/or HPC samples collected:	0
Number of samples with no detectable residual and HPC is not measured:	
Number of samples with no residual and HPC > 500 CFU/mL:	
Number of samples for HPC only and HPC > 500 CFU/mL:	
Total number of samples with no residual and/or HPC > 500 CFU/mL:	0

Compute V:

Where  $V = [1 - (\text{Total No. of samples with no residual and/or HPC} > 500) / (\text{Total No. of residual and/or HPC samples collected})] \times 100$

V = \_\_\_\_\_

Meets Standard (i.e. V >= 95%) (Y/N)? \_\_\_\_\_

### SUMMARY OF WATER QUALITY COMPLAINTS

General Complaints:

Type of Complaint	Number	Corrective Actions Taken
Taste/Odor		
Color		
Turbidity		
Suspended Solids		
Other (Describe)		

Reports of Gastrointestinal Illness (attach additional sheets if necessary):

Person Reporting	Date	Corrective Actions Taken

Attach an explanation of any failure of the performance standards or operating criteria and corrective action taken or planned.

\_\_\_\_\_  
 \_\_\_\_\_

Print Name: Tanner S Hiers

Signature: 

Date: 1/5/2020

# CT Compliance for Giardia Lamblia Cysts by Free Chlorine

**Input Parameters:**

Water System Name:	Timber Cove County Water District
Number of Service Connections:	163
System Number:	4900584
Month and Year:	December-19
Clearwell(s) - Volume per Foot:	<b>6,313</b> Gallons/Ft
Short-Circuiting Factor for Clearwell(s):	<b>0.20</b> t <sub>10</sub> /T
Required Log Inactivation of Giardia Cyst:	<b>0.5</b> Log

Date	Plant Run Time, hr	Clearwell Operating Parameters (plant online & clearwell draining)							CT and Giardia cyst Log Inactivation Results			
		Flow Rate, gpm	Clearwell Level, ft	Temp, °C	pH	Chlorine Residual, mg/L	Effective Volume, gal	Effective Contact Time, minutes	Calc. CT <sub>10</sub> , mg/L·min	Required CT <sub>10</sub> , mg/L·min	Minimum Log Inactivation	Giardia cysts Log Inactivation Range, (5th, 50th)
Sun-1	7.8	258	13.8	11.2	6.88	1.90	17,411	67.5	128	19	3.4	3.4 - 761.4 (15.2, 109.8)
Mon-2	-	-	-	17.4	7.00	1.33	-	-	-	-	-	-
Tue-3	9.0	275	12.6	12.6	6.93	2.03	15,970	58.1	118	17	3.5	3.5 - 143.9 (4.1, 35.2)
Wed-4	4.3	24	12.1	12.6	6.88	1.59	15,317	648.3	1028	16	32.1	32.1 - 40.3 (32.9, 36.3)
Thu-5	7.3	140	11.8	12.8	6.87	1.93	14,937	106.6	206	16	6.4	6.5 - 67.5 (9.4, 31.5)
Fri-6	12.3	33	15.8	12.9	6.84	1.54	19,940	612.1	941	16	29.4	29.4 - 75.4 (31.3, 36.0)
Sat-7	20.3	2,243	10.5	13.0	6.87	2.10	13,257	5.9	12	16	0.4	0.4 - 42.4 (25.0, 28.4)
Sun-8	17.8	26	10.5	13.2	6.86	1.58	13,257	473.9	747	15	24.9	24.9 - 64.3 (25.0, 26.0)
Mon-9	12.8	32	13.0	13.1	6.88	1.61	16,414	517.0	831	16	26.0	26.0 - 80.0 (27.1, 27.7)
Tue-10	9.5	227	12.5	12.7	6.91	1.87	15,783	69.5	130	17	3.8	3.8 - 50.2 (24.9, 27.4)
Wed-11	-	-	-	15.7	6.97	2.02	-	-	-	-	-	-
Thu-12	3.8	87	13.8	13.0	6.86	1.87	17,462	200.0	374	16	11.7	11.7 - 32.9 (24.4, 32.0)
Fri-13	2.5	31	14.9	13.1	6.86	1.80	18,813	614.8	1109	16	34.7	34.7 - 69.4 (34.7, 34.9)
Sat-14	4.0	57	14.4	12.9	6.85	1.78	18,181	318.0	567	16	17.7	17.7 - 34.7 (26.8, 33.6)
Sun-15	4.8	468	13.8	12.4	6.83	1.76	17,466	37.3	66	16	2.0	2.1 - 35.2 (26.9, 32.6)
Mon-16	-	-	-	16.1	6.93	1.89	-	-	-	-	-	-
Tue-17	5.0	29	12.0	11.5	6.85	1.72	15,151	517.1	888	18	24.7	24.7 - 48.1 (24.7, 26.5)
Wed-18	9.8	153	12.9	11.2	6.85	2.28	16,288	106.3	243	19	6.4	6.4 - 68.9 (31.0, 38.7)
Thu-19	16.0	446	14.0	11.7	6.87	2.35	17,676	39.6	93	19	2.5	2.5 - 47.4 (39.4, 40.3)
Fri-20	3.3	264	13.4	12.0	6.86	2.21	16,919	64.0	141	18	3.9	3.9 - 90.2 (4.7, 43.8)
Sat-21	9.3	191	13.1	12.1	6.87	2.07	16,540	86.5	179	18	5.0	5.0 - 55.4 (22.1, 29.4)
Sun-22	5.5	36	14.4	12.1	6.86	2.12	18,132	499.1	1059	18	29.4	29.4 - 115.1 (34.5, 36.4)
Mon-23	-	-	-	14.5	6.90	1.83	-	-	-	-	-	-
Tue-24	11.3	632	13.4	10.8	6.86	1.77	16,919	26.8	47	19	1.2	1.2 - 31.2 (24.1, 28.1)
Wed-25	-	-	-	15.0	6.91	1.30	-	-	-	-	-	-
Thu-26	3.3	33	13.2	10.7	6.92	1.65	16,666	512.1	846	19	22.3	22.3 - 48.7 (23.0, 24.8)
Fri-27	12.8	453	13.4	9.8	6.84	1.83	16,919	37.4	68	20	1.7	1.7 - 51.8 (21.7, 36.5)
Sat-28	10.3	178	14.4	10.1	6.84	2.05	18,128	101.7	209	20	5.2	5.2 - 358.2 (6.3, 59.2)
Sun-29	10.5	654	13.5	10.5	6.88	2.14	17,045	26.0	56	20	1.4	1.4 - 432.9 (19.2, 31.6)
Mon-30	0.5	42	13.9	10.3	6.87	2.39	17,585	415.9	993	20	24.8	24.8 - 30.5 (25.1, 27.7)
Tue-31	11.8	166	11.0	11.2	6.87	2.23	13,889	83.5	186	19	4.9	4.9 - 71.1 (24.4, 35.6)
Min	0.5	24	10.5	9.8	6.83	1.30	13,257	5.9	12	15	0.4	0.4
Median	9.1	160	13.4	12.6	6.87	1.87	16,919	104.0	207	18	5.8	39.6
Max	20.3	2,243	15.8	17.4	7.00	2.39	19,940	648.3	1,109	20	34.7	761.4

Print Name: Tanner S Hiers

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

1/5/2020

Timber Cove County Water District										Month:	06	Yr	2019				
day ***	time ***	op. ***	tank 1 level (ft)	tank 2 level (ft)	tank 3 level (ft)	pond level (ft)	rain "	plant status on/off	filter train 1 or 2	water plant production meter	total mgd	flow gpm	backwash return meter X 10	total mgd	INSTANT Recycle meter	creek transfer to reservoir METER	MGD
1	9	TH	14.5	6.8	14.0	21.01	3			661063			25972		755218	5473377	
2		TH					1			624225			18652		758199	5473390	
3	9	TH	15	6.6	13.4	21.23	0			674225			26347		758199	5473390	
4	10	TH	14.5	6.5	15.2	21.22	2.5			693854			26697		759688	5544398	
5	9:10	TH	14	6.8	14	21.24	2.5			693856			27122		758084	5609856	
6	9:30	TH	14	6.5	15.1	21.26	5			712151			27296		76241	5622756	
7	9:30	TH	14	6.5	10.5	21.26	5			734860			27516		763407	5692436	
8	9:30	TH	13	6.8	15	21.23				772273			28146		761514	5766729	
9										905813			28146				
10	10:30	TH	14.5	6.5	13	22.07	0.5			825413			28146		769481	5918339	
11	10:40	TH	14	6.5	22.6	22.6	1"			828767			28146		767641	5941495	
12	10	TH	15	6.8	14	22.87	1.2"			832652			283361		768868	6063296	
13	9:25	TH	14.5	6.5	14.1	22.25	1.2"			839146			285963		769784	6128136	
14	9:45	TH	14	6	14.6	22.6	1"			843196			28563		770882	6201921	
15	9:40	TH	14	6	13.0	22.5				849559			28563		773011	6271632	
16	9:40	TH	14	6.7	12					859090			28563		774936	6379994	
17	9:30	TH	14.1	6.7	12					851050			28563		775868	6398418	
18	9:30	TH	13.8	6.8	12.7		4"			857207			28563		775868	6452335	
19	9:30	TH	15	6.7	15		2.5"			867207			28748		776685	6489619	
20	11:20	TH	15	6.7	13.4	23.27				905673			28748		778118	6519221	
21	10:00	TH	14.6	6.5	13.5	23.3	1"			910366			29203		779213	6582378	
22	9:45	TH	14	6	14.3	23.5	2.5"			917428			29307		780536	6657261	
23							0			937930			29633		782001	6792761	
24	10	TH	14	6.9	13.5	23.68	0			937930			29633		783001	6792761	
25																	
26	9:45	TH	14.9	6	13.02	23.82	1.5"			959991			29755		785926	6905262	
27	9:45	TH	14.9	6.5	13.4	24.04				966044			29755		786698	6955212	
28	9:45	TH	14.3	6.5	14.6	24				945949			30220		786730	7001830	
29	9:30	TH	15.2	6	14.6	24.03				1147.6			30310		789164	7003301	
30										221660					789164	7003301	
31	10	TH	14	6	11.4	24				22180					79284	7003301	

Tank 3 : 60600