



PO Box 5027, Bear Valley, CA 95223  
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July 28, 2021

To: Board of Directors  
Bear Valley Water District

**RE: Liens & Delinquent Accounts for the Alpine County Tax Roll FY2021/2022.**

1. David & Lisa Maminski - #CS006, 251 Creekside Drive, Bldg. A-2, Unit #6, Bear Valley, CA 95223. APN NO.: 005-501-006-0. Mailing address: 2223 Westchester Drive, San Jose, CA 95124. In debt to the district in the amount of \$1,382.14.
  - There is a previous balance on the FY19/20 Alpine County Tax Roll in the amount of \$369.73.
  - There is a previous balance on the FY17/18 Alpine County Tax Roll of \$1,304.31.
  - There is a previous balance on the FY16/17 Alpine County Tax Roll in the amount of \$1,365.53.
  - There is a previous balance on the FY15/16 Alpine County Tax Roll in the amount of \$976.78.
  - There is a previous balance on the FY14/15 Alpine County Tax Roll in the amount of \$842.07.
  - The total amount due to the district is \$7,853.26, of which **\$6,471.12**, are in arrears.

Public Hearing on Delinquent Account held on August 2<sup>nd</sup>, 2021.

Public Hearing Opens at 9:00 A.M.

Statement of Office Manager verifying mailing of notices.

List presented to the Board of Directors of unpaid sewer service charges.

Written protests: None

Oral testimony of Comments:

Judi Silber, Office Manager, BVWD

cc: Jeffrey Gouveia, General Manager, BVWD

### **DECLARATION OF A QUORUM**

President James Bissell called the meeting to order via Zoom teleconference at 9:10 A.M. Board members present were Vice President, Gunnar Thordarson, Treasurer Ken Brown, and Director Diane Lundquist. Director John Boyle was absent with notice. Staff present were General Manager Jeff Gouveia and Office Manager Judi Silber. No public was present.

### **BOARD MEETING**

*Public comments on agenda items will be limited to 3 minutes or otherwise at the discretion of the Board Chair.*

### **PUBLIC FORUM**

Any member of the public may address and ask questions of the Board relating to any matter within the Board's jurisdiction provided the matter is not on the agenda or pending before the Board.

### **BOARD BUSINESS**

#### **1. The Board will consider adoption of the April 19, 2021 Board Meeting Minutes**

Motion Bissell Second Thordarson to accept the April 19, 2021 Board Meeting Minutes as presented.

AYES: Bissell, Thordarson, Brown and Lundquist.

NOES:

ABSENT: Boyle

MOTION CARRIED

#### **2. FY 21 - 22 Preliminary Budget Proposal – Discussion and Possible Action Item**

Discussion ensued regarding new capital equipment purchase proposed, including a new grinder for the headworks and a new sewer push camera with a longer reel (300') for the collection system. The GM also alerted the Board to anticipate reduced commercial revenue for FY21-22 due to COVID19.

Motion Brown Second Lundquist to accept the preliminary budget as presented.

AYES: Bissell, Thordarson, Brown and Lundquist

NOES:

ABSENT: Boyle

MOTION CARRIED

#### **3. Manager's Report – General Manager**

See attachment.

#### **4. Financial Report – General Manager**

##### **4.1 P&L and Balance Sheet Reports - Discussion and Possible Action Item**

Motion Bissell Second Lundquist to accept the P & L and Balance Sheet Report as presented.

AYES: Bissell, Thordarson, Brown, and Lundquist

NOES:

ABSENT: Boyle

MOTION CARRIED

#### 4.2 Accounts Payable Report - Discussion and Possible Action Item

Motion Brown Second Bissell to accept the Accounts Payables Reports as presented.

AYES: Bissell, Thordarson, Brown and Lundquist

NOES:

ABSENT: Boyle

#### 4.3 A/R & Aging Reports – Discussion

The accounts receivable balance on June 17<sup>th</sup>, 2021 was \$-26,636.71.

The accounts receivable balance on June 17<sup>th</sup>, 2021 was \$-21,723.30.

There is only a slight variance between the years. 2 customers have been paying monthly instead of quarterly this would account for the higher credits in 2021.

### 5. Board Member Reports

The next board meeting was set for Monday, August 2<sup>nd</sup>, 2021 at 9:00 A.M.

President Bissell adjourned the meeting at 11:33 A.M.

# AGENDA ITEM

DATE: JUNE 21, 2021

TO: BVWD BOARD OF DIRECTORS

FROM: JEFF GOUVEIA, DISTRICT GENERAL MANAGER

RE: MANAGER'S REPORT

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1. Water Balance - Update

a. Influent Flows & Effluent Transfers

The influent flows for June 1-16, 2021 were .576.

Transferred to PR (MG) to Storage June 1-16, 2021 was .508.

a. Effluent in Storage, Current Storage Capacity & Land / Surface Disposal Update

Land Application Annual Total for 5/24-5/31/2021 was 2.063 (MG).

Current Storage Volume is 7071.4 = 19.08 (MG) = 25.0% as of 6/15/2021.

2. Permit Compliance & Monitoring & Reporting Programs (MRPs) - Update

a. WDR MRP - Land Discharge Permit – Compliance & Reporting Update

i. Reporting Status Matrix – No Certified Violations, All Reporting Submitted On-Time

Order Number: R5-2016-0045, April 2021 Report was submitted on 05/17/2021.

b. NPDES MRP – Surface Water Discharge Permit – Compliance & Reporting Update

i. Reporting Status Matrix – No Certified Violations, All Reporting Submitted On-Time

Order Number: 5-01-208, April 2021 Report was submitted on 05/17/2021.

3. Other

a. PGE-SGIP-2020-3656 – WWTF Powerpack Project –Update

PG&E has received the request for an extension of the proof of Projects Milestone (PPM) due date. They have granted the following extension: Original Due Date: 04/27/21, New PPM Due Date: 10/27/21 The PPM Due Date does not extend the Reservation Expiration Date. \$5K has been paid by the district (our expense) to Mike Smith Engineering. There has been a modification to the wall plan to increase ventilation. GM stated that the most significant risk in this project will be for the District to meet the 104 minimum annual the cycling requirement, with drought years potentially presenting the greatest challenge. In years with abundant water, GM doesn't for see any potential problems cycling 104 times. GM is waiting to receive the amended contract back from Swell Energy. Based on the amendments to the energy services agreement, GM assured Mark Tholke that the district intends to proceed with this project.

**Motion Brown Second Thordarson to allow General Manager to proceed with the amended contract.**

**AYES: Bissell, Brown, Lundquist, Thordarson**

**NOES:**

**ABSENT: Boyle**

**MOTION CARRIED**

b. Cal OES Community Power Resiliency Allocation –Update

Cal OES extended the deadline to spend these monies from October 31, 2021 to March 31, 2021. This allowed us to consider Tesla Battery structure as part of the expenditures. Discussion ensued regarding alternative projects, including portable generators. Generators would provide favorable redundancy but would likely seldom be needed and potentially cost more to maintain and store than the they would be utilized. Additionally, the District currently has no vehicle capable of towing portable

generators of this size as well as nowhere to store them.

GM proposed the following set of expenditures for this grant:

- Admin Building Powerwall - \$68,009
- Bee Gulch Powerwall - \$29,349
- Main Pump Station Generator 60kw - \$53,099
- Lake Alpine Boat Ramp Generator - \$48,445
- Treatment Plant Battery System Structure - \$40,000
- Radio Telemetry - \$68,094

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TOTAL - \$ -6996

Industrial Electric, Inc. performed a site visit for to evaluate both locations scheduled for generator upgrades.

b. District Standard Design Specifications – Update

GM informed the Board that the Disitric't's 2010 design standards should be updated. Discussion ensued and it was concluded that the GM would proceed to work with the District Engineer to update the standards. The GM will bring a draft of the standards to the Board for review when they become available.

c. BVWD Roster – 2021 Expiration of Terms of Office (Bissell, Boyle, Lundquist)

President James Bissell, Director John Boyle and Director Diane Lundquist are all up for reelection this year. The district has to call an election by July 12, 2021. The election packets must be filed by August 6, 2021. GM will include an article in the local Cub Reporter announcing the election.



# AGENDA ITEM

**DATE:** AUGUST 2, 2021

**TO:** BVWD BOARD OF DIRECTORS

**FROM:** JEFF GOUVEIA, DISTRICT GENERAL MANAGER

**RE:** 2021 NPDES PERMIT RENEWAL

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## **BACKGROUND:**

The District submitted its Report of Waste Discharge (ROWD) on June 18, 2020 to renew NPDES Order No. R5-2016-0045-02, as amended by Order No. R5-2017-0041 and Order No. R5-2019-0078, which permits discharge of treated wastewater (termed "effluent") into Bloods Creek. The ROWD included the required forms, cover letter, Summary of Effectiveness of the Bear Valley Water District Salinity Evaluation and Minimization Plan, and an Antidegradation Analysis. Specifically, the cover letter requested that the Regional Board consider a number of revisions to the permit for inclusion in the renewed order that the District believes would improve the ability for the District comply with the Order and eliminate certain costly, redundant and unnecessary monitoring reporting (MRP) requirements.

On July 13, 2021, District Staff along with Director Lundquist and representatives from Stantec met with members of the Regional Board permitting staff in a remote meeting to discuss the District's ROWD and the next steps in the permit renewal process. By and large, nearly all of the requested revisions and permit improvements the District requested were received favorably by the Regional Board and assurances were provided that these would be included in the tentative order when drafted this fall.

However, the District's request to extend the discharge season into July was met with some challenges and, unexpectedly, proposed changes to the annual monthly effluent limits (AMELs) for copper, lead, aluminum and ammonia arose during this meeting. Neither of these items in and of themselves necessarily imperil renewal of the Order or the ability of the District generally to discharge in future years but they increase the potential for non-compliance as proposed.

## **DISCUSSION:**

Following the July 13 meeting with the Regional Board, Staff met with representatives from Stantec to discuss the results of the meeting. While resolution of the pH effluent limits and removal of any "emergency" language related to discharging throughout the permit, for example, were considered significant achievements, the proposed new effluent limits for copper, lead, aluminum and ammonia as well as the request to extend the discharge season into July remain items of concern.

For review, it is important for the Board to understand the significance of the NPDES permit both operationally for the District and for Bear Valley generally as it relates to overall wastewater capacity in the context of Bear Valley's future development under the 1978 Master Plan. Following repeated uncontrolled discharges by the District in late 1990's, the District ultimately secured a \$735,000 line of credit in 2005 and installed the surface discharge system which exists today. The District subsequently converted this to loan in 2009 and again refinanced this loan in 2013 which is now amortized through March 2028 at an annual cost of \$56,337. Additionally, including the pilot tertiary treatment study of \$413,613 as of June 2009, the District has invested in myriad studies and consulting fees well in excess of \$168,000 to maintain and advance the District's permit provisions to achieve a permit it could comply with. In the end, this investment paid off and the District successfully initiated its first surface discharge in 2017, discharging again in 2018 and 2019. Without this permit, the massive 2017 water year would have undoubtedly led to further uncontrolled discharges and potentially fines without a viable surface discharge permit the District could reasonably comply with.

Additionally, it is significant to note that the District's ability to discharge to surface waters with the assimilative capacity of Bloods Creek at 20:1 dilution as discussed in a May 2020 water balance update now accounts for



as much as two thirds of the total capacity in the system and any constraints to this permit may necessarily limit or reduce overall future capacity in Bear Valley's wastewater system. It is in this context that the Board should consider the implications of the proposed new effluent limits as well as the request to extend the discharge season into July.

With this in mind, Stantec has proposed the attached Scope of Work which outlines proposed tasks Stantec would take to develop an initial response to the Regional Board on the draft effluent limitations and the request for additional information to extend the discharge season through July 31. The objective of this effort is to assist the District in achieving a new Order that is agreeable to both the District and Regional Board.

These tasks are outlined below:

*Task 1. – Investigate Effluent Limitations*

- 1. Evaluate how the Regional Board calculated the draft effluent limitations to determine whether the correct data set was used (i.e., no missing data and no unrepresentative data).*
- 2. Determine the statistical nature of Water Year 2017 to investigate whether the Regional Board may accept removal of all or a portion of the data from 2017 based on the intent of the State Implementation Plan to develop effluent limitations based on events with a statistical frequency of occurring once every 10 years.*
- 3. Investigate whether the Regional Board may accept a reduced coefficient of variance (CV) for ammonia by demonstrating that there is a seasonal cause for the variation rather than random variability.*
- 4. If any data points were removed and/or the ammonia CV was reduced, recalculate the average monthly effluent limitations (AMELs) using the new data set and/or ammonia CV.*
- 5. If the AMELs are still problematic, investigate whether additional dilution credits may be given to the District's effluent. It should be noted that extrapolation of the District's current mixing zone study is likely unacceptable by the Regional Board because the stream bed changes materially past the deep pool just downstream of the discharge point. Therefore, an expanded mixing zone study will likely be needed for the Regional Board to accept additional dilution credits. This effort includes evaluation of the current mixing zone study to estimate the maximum possible dilution credits. This Scope of Work does not include conducting the expanded mixing zone study.*
- 6. If the AMELs are still problematic, perform a literature search on ammonia removal from pond systems in cold climates and on copper and lead removal technologies that have advanced sufficiently to where field installations with performance databases actually exist. Such technologies may include ion exchange resins.*
- 7. If the metals AMELs are still problematic, investigate the addition of calcium or magnesium to increase the effluent's hardness, thereby reducing the AMELs for copper and lead.*
- 8. If the metals AMELs are still problematic, investigate the possibility of adding a discharge prohibition to the new Order wherein the District will only discharge when the Bloods Creek's hardness is sufficiently high.*
- 9. If the ammonia AMEL is still problematic, determine whether effluent ammonia and temperature correlate such that an ammonia meter and temperature provide a reliable real-time indicator of when discharges may occur.*

*After evaluating the effluent limitations, Stantec will prepare a draft memorandum detailing the results of the investigation for the District's review. Stantec will prepare a final memorandum incorporating the District's comments for submittal to the Regional Board.*

**Estimated Budget: \$10,000**



## Task 2. - Regional Board Discussions on July Discharges

*Currently, the District is only permitted to discharge to Bloods Creek from January 1 to June 30 under "emergency" conditions. Stantec prepared an Antidegradation Analysis for submittal with the ROWD to request two amendments for the new Order to extend the discharge season by one month and to remove the "emergency" language. In a meeting with the Regional Board on July 13, 2021, the Regional Board indicated that the "emergency" language will be removed from the new Order, but requested additional information to extend the discharge season through July 31. As directed by the District, Stantec will engage in conversations with the Regional Board to rescind the request to extend the discharge season by one month and instead request language be added to the new Order allowing necessary effluent discharges into July if 1) needed, and 2) following a winter/spring season with greater than 100-year levels of precipitation.*

**Estimated Budget: \$1,500**

## **ANALYSIS & RECOMMENDATION:**

To date, the District has committed \$24,308 in consulting fees with Stantec in its effort thus far to renew this Order. The total cost for the above two tasks, including project management, as proposed is an additional \$12,000. Proposed as a "change order," this would also preserve a \$5000 contingency that was unused from the previous ROWD proposal. Depending on the response from the Regional Board, additional effort outside this Scope of Work may be required to achieve a new Order that is agreeable to both the Regional Board and the District.

### Hardness Dependent Metals

The proposed, significantly lower effluent limitations for copper, lead and aluminum are a consequence of lower than anticipated hardness results in the receiving water (Bloods Creek) that were captured over the term of the 2016 permit when the District was discharging. While the 2016 permit had more relaxed effluent limitations for copper, lead and aluminum based on higher hardness values, the Regional Board is required under EPA guidelines to use the lowest hardness values collected over the last 5 years when establishing effluent limits for hardness dependent metals in NPDES permits. While it is unlikely an evaluation of the dataset will reveal any missing or unrepresentative hardness data as Stantec has proposed, there is potential that an investigation of the statistical nature of the 2017 water year based on the intent of the State Implementation Plan (SIP) could provide the basis for the elimination of the 2017 data and thereby remove some lower hardness values. If this is insufficient, while the District would prefer to avoid a modification to its treatment process, the addition of calcium or magnesium to increase effluent hardness would likely serve to provide sufficient basis for the Regional Board to recalculate the proposed effluent limits.

### Ammonia

Stantec's proposal to investigate whether the Regional Board may accept a reduced coefficient of variance (CV) for ammonia by demonstrating that there is a seasonal cause to the CV and allowing for a recalculation of the AMEL for ammonia is likely a long shot but a reasonable approach before considering more costly alternatives. Similar to hardness, while the District would prefer to avoid a modification to its treatment process, the addition of ammonia and temperature monitoring may be a feasible alternative worth exploring.

### July Discharges

Based on historical storage volume data, the necessary frequency of any July discharge is likely no less often than 1:10 or 1:20 years. To be sure, sufficient receiving water flow must also be available for the District to achieve 20:1 dilution as required under the Order. However, as the District learned in 2017, there remains a scenario where a surface water discharge prohibition beginning on July 1 combined with snow remaining on spray fields limiting land application could result in a situation where the District has no means of discharge for

a period of time in July, potentially days or weeks. The Regional Board has shown a willingness to grant this provision in the renewed Order but has advised that the Department of Drinking Water (DDW) be granted an

opportunity to review, comment and ultimately approve this request. After considering this option, District Staff together with Stantec determined that the risks associated with this extra layer of approval and the potential for more scrutiny of the District's surface discharge generally was not worth the marginal benefit. Instead, Stantec has proposed and Staff concurs that they engage in conversations with the Regional Board to consider adding language to the new Order allowing necessary effluent discharges into July if 1) needed, and 2) following a winter/spring season with greater than 1:100 year levels of precipitation.

**Therefore, Staff recommends that the Board vote to authorize approval of the \$12,000 Change Order for the Bear Valley Water District NPDES Permit Renewal from Stantec as proposed.**

**ACTION:**

1. Motion to Approve the *Change Order for the Bear Valley Water District NPDES Permit Renewal* from Stantec as proposed.

**Attachments:**

- CVRWQCB Bear Valley WWTF NPDES Permit Renewal Meeting – Agenda – July 13, 2021
- Stantec Proposal – Change Order for Bear Valley Water District NPDES Permit Renewal – July 21, 2021
- Bear Valley Water District ROWD Cover Letter – June 19, 2020
- CVRWQCB Administrative Extension – Order R5-2016-0045 – March 18, 2021
- Weber, Ghio & Associates 1 in 100 Year Water Balance – 2020 Update – May 21, 2020

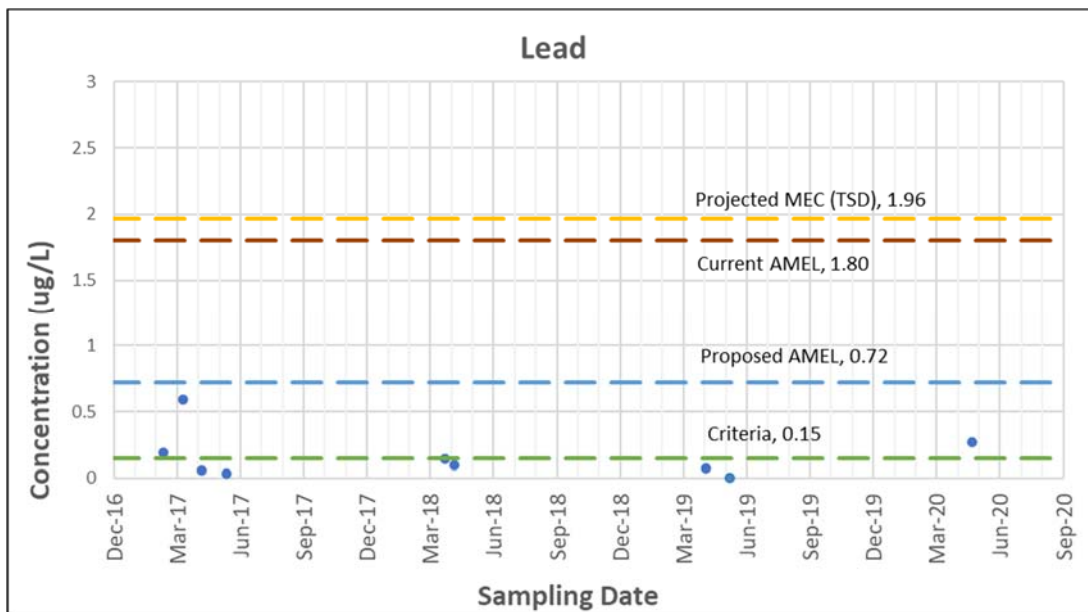
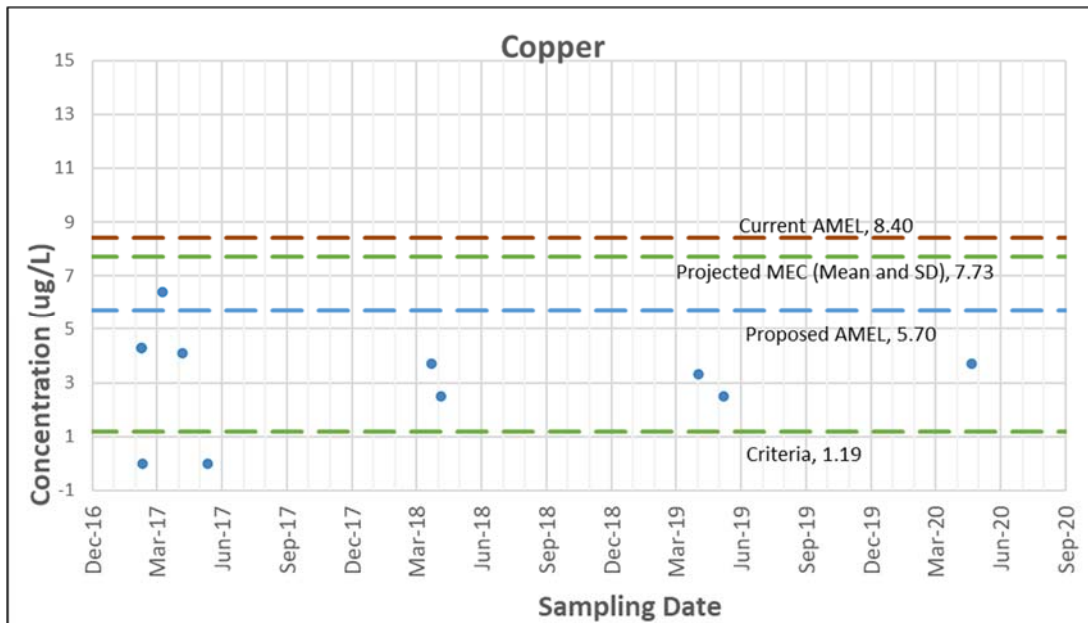
# **Bear Valley WWTF NPDES Permit Renewal Meeting**

**13 July 2021**

## **AGENDA**

- 1) Discussion of effluent limits (see next page for graphs):
  - Copper
  - Lead
  - Ammonia
  - Aluminum
- 2) pH effluent limits
- 3) Removal of mass-based effluent limits for BOD, TSS, and ammonia
- 4) Eliminating monitoring when discharges are not occurring
- 5) Scheduling priority pollutant monitoring
- 6) Salinity, annual average EC, and CV-SALTS compliance pathway
- 7) Toxicity monitoring and new Statewide Toxicity Provisions
- 8) Request to extend discharge season into July – need more information regarding potential impacts to recreational beneficial uses downstream considering secondary treated effluent

**Current and Proposed Draft Effluent Limits for Discussion Only**  
**(not yet approved by management)**







**Stantec Consulting Services Inc.**  
3875 Atherton Road, Rocklin CA 95765-3716

July 21, 2021  
File: 184031289

**Attention: Jeff Gouveia, General Manager**  
Bear Valley Water District  
441 Creekside Drive, PO Box 5027  
Bear Valley, CA 95223

Dear Jeff,

**Reference: Change Order for Bear Valley Water District NPDES Permit Renewal**

The Bear Valley Water District (District) has a National Pollutant Discharge Elimination System (NPDES) permit (Order No. R5-2016-0045-02 as amended by Order No. R5-2017-0041 and Order No. R5-2019-0078) adopted by the Central Valley Regional Water Quality Control Board (Regional Board) for their Wastewater Treatment Facility's (WWTF's) discharge of treated wastewater (termed "effluent") into Bloods Creek. The District, with Stantec's assistance, submitted their Report of Waste Discharge (ROWD) on June 18, 2020 to renew the Order. The ROWD included the required forms, cover letter, Summary of Effectiveness of the Bear Valley Water District Salinity Evaluation and Minimization Plan, and an Antidegradation Analysis. On July 13, 2021, Stantec and the District met with the Regional Board to discuss the District's ROWD and the next steps in the permit renewal process. The following Scope of Work outlines Stantec's proposed tasks to develop an initial response to the Regional Board regarding the items discussed during the July 13 meeting in an effort to assist the District in achieving a new Order that is agreeable to both the District and Regional Board.

## Scope of Work

### Task 1. Effluent Limitations Investigation

On July 9, 2021, the Regional Board provided their draft effluent limitations for aluminum, ammonia, copper, and lead, which were lower than anticipated. To investigate these effluent limitations in an effort to negotiate achievable effluent limitations with the Regional Board, Stantec will do the following:

- (1) Evaluate how the Regional Board calculated the draft effluent limitations to determine whether the correct data set was used (i.e., no missing data and no unrepresentative data).
- (2) Determine the statistical nature of Water Year 2017 to investigate whether the Regional Board may accept removal of all or a portion of the data from 2017 based on the intent of the State Implementation Plan to develop effluent limitations based on events with a statistical frequency of occurring once every 10 years.
- (3) Investigate whether the Regional Board may accept a reduced coefficient of variance (CV) for ammonia by demonstrating that there is a seasonal cause for the variation rather than random variability.

**Reference:** Change Order for Bear Valley Water District NPDES Permit Renewal

- (4) If any data points were removed and/or the ammonia CV was reduced, recalculate the average monthly effluent limitations (AMELs) using the new data set and/or ammonia CV.
- (5) If the AMELs are still problematic, investigate whether additional dilution credits may be given to the District's effluent. It should be noted that extrapolation of the District's current mixing zone study is likely unacceptable by the Regional Board because the stream bed changes materially past the deep pool just downstream of the discharge point. Therefore, an expanded mixing zone study will likely be needed for the Regional Board to accept additional dilution credits. This effort includes evaluation of the current mixing zone study to estimate the maximum possible dilution credits. This Scope of Work does not include conducting the expanded mixing zone study.
- (6) If the AMELs are still problematic, perform a literature search on ammonia removal from pond systems in cold climates and on copper and lead removal technologies that have advanced sufficiently to where field installations with performance databases actually exist. Such technologies may include ion exchange resins.
- (7) If the metals AMELs are still problematic, investigate the addition of calcium or magnesium to increase the effluent's hardness, thereby reducing the AMELs for copper and lead.
- (8) If the metals AMELs are still problematic, investigate the possibility of adding a discharge prohibition to the new Order wherein the District will only discharge when the Bloods Creek's hardness is sufficiently high.
- (9) If the ammonia AMEL is still problematic, determine whether effluent ammonia and temperature correlate such that an ammonia meter and temperature provide a reliable real-time indicator of when discharges may occur.

After evaluating the effluent limitations, Stantec will prepare a draft memorandum detailing the results of the investigation for the District's review. Stantec will prepare a final memorandum incorporating the District's comments for submittal to the Regional Board.

Estimated Budget: \$10,000

## **Task 2. Regional Board Discussions on July Discharges**

Currently, the District is only permitted to discharge to Bloods Creek from January 1 to June 30 under "emergency" conditions. Stantec prepared an Antidegradation Analysis for submittal with the ROWD to request two amendments for the new Order to extend the discharge season by one month and to remove the "emergency" language. In a meeting with the Regional Board on July 13, 2021, the Regional Board indicated that the "emergency" language will be removed from the new Order, but requested additional information to extend the discharge season through July 31. As directed by the District, Stantec will engage in conversations with the Regional Board to rescind the request to extend the discharge season by one month and instead request language be added to the new Order allowing necessary effluent discharges into July if 1) needed, and 2) following a winter/spring season with greater than 100-year levels of precipitation.

Estimated Budget: \$1,500



**Reference:** Change Order for Bear Valley Water District NPDES Permit Renewal

### Task 3. Project Management

Stantec will provide project facilitation and management to oversee the project's progress and complete tasks such as scheduling updates, billing, report coordination, etc. Stantec's Project Manager will manage the scope and budget for the project through cost control and reporting system.

Estimated Budget: \$500

### Summary

Stantec proposes to complete the tasks described in this proposal to provide an initial response to the Regional Board regarding the items discussed during the July 13 meeting on a time and materials basis following the rate schedule (included in Attachment A) in an amount not to exceed \$12,000, without prior written authorization from the District. Depending on the response from the Regional Board, additional effort outside this Scope of Work may be required to achieve a new Order that is agreeable to both the Regional Board and the District.

Regards,

**Stantec Consulting Services Inc.**



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**Steven Beck, PE**  
Project Manager  
Phone: 916-826-3665  
Steven.Beck@stantec.com

## SCHEDULE OF BILLING RATES – 2021

Billing Level	Hourly Rate	Description												
3	\$112	<b>Junior Level position</b> <ul style="list-style-type: none"> <li>Independently carries out assignments of limited scope using standard procedures, methods and techniques</li> <li>Assists senior staff in carrying out more advanced procedures</li> <li>Completed work is reviewed for feasibility and soundness of judgment</li> <li>Graduate from an appropriate post-secondary program or equivalent</li> <li>Generally, one to three years' experience</li> </ul>												
4	\$117													
5	\$132													
6	\$137	<b>Fully Qualified Professional Position</b> <ul style="list-style-type: none"> <li>Carries out assignments requiring general familiarity within a broad field of the respective profession</li> <li>Makes decisions by using a combination of standard methods and techniques</li> <li>Actively participates in planning to ensure the achievement of objectives</li> <li>Works independently to interpret information and resolve difficulties</li> <li>Graduate from an appropriate post-secondary program, with credentials or equivalent</li> <li>Generally, three to six years' experience</li> </ul>												
7	\$149													
8	\$154													
9	\$164	<b>First Level Supervisor or first complete Level of Specialization</b> <ul style="list-style-type: none"> <li>Provides applied professional knowledge and initiative in planning and coordinating work programs</li> <li>Adapts established guidelines as necessary to address unusual issues</li> <li>Decisions accepted as technically accurate, however may on occasion be reviewed for soundness of judgment</li> <li>Graduate from an appropriate post-secondary program, with credentials or equivalent</li> <li>Generally, five to nine years' experience</li> </ul>												
10	\$170													
11	\$183													
12	\$192	<b>Highly Specialized Technical Professional or Supervisor of groups of professionals</b> <ul style="list-style-type: none"> <li>Provides multi-discipline knowledge to deliver innovative solutions in related field of expertise</li> <li>Participates in short and long range planning to ensure the achievement of objectives</li> <li>Makes responsible decisions on all matters, including policy recommendations, work methods, and financial controls associated with large expenditures</li> <li>Reviews and evaluates technical work</li> <li>Graduate from an appropriate post-secondary program, with credentials or equivalent</li> <li>Generally, ten to fifteen years' experience with extensive, broad experience</li> </ul>												
13	\$201													
14	\$217													
15	\$228	<b>Senior Level Consultant or Management</b> <ul style="list-style-type: none"> <li>Recognized as an authority in a specific field with qualifications of significant value</li> <li>Provides multi-discipline knowledge to deliver innovative solutions in related field of expertise</li> <li>Independently conceives programs and problems for investigation</li> <li>Participates in discussions to ensure the achievement of program and/or project objectives</li> <li>Makes responsible decisions on expenditures, including large sums or implementation of major programs and/or projects</li> <li>Graduate from an appropriate post-secondary program, with credentials or equivalent</li> <li>Generally, more than twelve years' experience with extensive experience</li> </ul>												
16	\$243													
17	\$251													
18	\$252	<b>Senior Level Management under review by Vice President or higher</b> <ul style="list-style-type: none"> <li>Recognized as an authority in a specific field with qualifications of significant value</li> <li>Responsible for long range planning within a specific area of practice or region</li> <li>Makes decisions which are far reaching and limited only by objectives and policies of the organization</li> <li>Plans/approves projects requiring significant human resources or capital investment</li> <li>Graduate from an appropriate post-secondary program, with credentials or equivalent</li> <li>Generally, fifteen years' experience with extensive professional and management experience</li> </ul>												
19	\$261													
20	\$270													
21	\$287													
<b>Survey Crews</b>		<table> <tr> <th>Crew Size</th><th>Regular Rate</th><th>Overtime Rate</th></tr> <tr> <td>1-Person</td><td>\$190</td><td>\$230</td></tr> <tr> <td>2-Person</td><td>\$290</td><td>\$400</td></tr> <tr> <td>3-Person</td><td>\$390</td><td>\$525</td></tr> </table>	Crew Size	Regular Rate	Overtime Rate	1-Person	\$190	\$230	2-Person	\$290	\$400	3-Person	\$390	\$525
Crew Size	Regular Rate	Overtime Rate												
1-Person	\$190	\$230												
2-Person	\$290	\$400												
3-Person	\$390	\$525												

Expert Witness Services carry a 50% premium on labor. Overtime will be charged at 1.5 times the standard billing rate. All labor rates will be subject to annual increase.



June 19, 2020

Central Valley Regional Water Quality Control Board  
11020 Sun Center Drive #200  
Rancho Cordova, CA 95670

Attn: James Marshall, P.E., Supervising Engineer

**Reference: Bear Valley Water District Report of Waste Discharge**

Dear Mr. Marshall,

As requested by the Central Valley Regional Water Quality Control Board (Regional Water Board) in its April 28, 2020 letter to the District entitled "*Report of Waste Discharge Reminder for Renewal of NPDES Permit CA0085146 and Approval of Updated Mixing Zone/Dilution Study Report*," the Bear Valley Water District (District) is providing the attached Report of Waste Discharge (ROWD) and supporting information for renewal of Waste Discharge Requirements Order No. R5-2016-0045-02 (as amended by Order No. R5-2017-0041 and Order No. R5-2019-0078), NPDES No. CA0085146 (Order), permitting the District's Wastewater Treatment Facility (WWTF) discharge of treated wastewater (termed "effluent") to Bloods Creek.

Per the request, this ROWD consists of one document containing the following items, in the following order:

- *Antidegradation Analysis*
- *Summary of Effectiveness of the District Salinity Evaluation and Minimization Plan*
- *United States Environmental Protection Agency (EPA) Form 1*
- *State Water Resources Control Board Form 200*
- *EPA Form 2A, with attachments*
- *EPA Form 2S, with attachments*

The District respectfully requests that the Regional Water Board consider the following revisions to the current Order for inclusion in the renewed Order:

1. **Changing the Potential Frequency and Timing of when Effluent Discharges May Occur**

The current Order describes effluent discharges to Bloods Creek as "necessary to maintain design conditions in the storage/polishing reservoir in emergency situations during severe wet weather periods and during snowmelt season." The District believes it is consistent with maximum benefit to the people of the State to eliminate the emergency language and similar references to emergency situations and severe wet weather from the renewed Order. The current Order also prohibits effluent discharge to Bloods Creek from July 1 through December 31. The District believes it is consistent with maximum benefit to the people of the State to modify the discharge prohibition period to be between August 1 and December 31. This ROWD informational package includes an Antidegradation

Reference: Bear Valley Water District Report of Waste Discharge

Analysis discussing why these two amendments (changing the potential frequency and timing of effluent discharge) are believed to be appropriate based on recent changes in Bear Valley precipitation patterns, California's water resources, and salinity accumulation in California's water resources.

2. **Eliminating Composite Influent Monitoring when Discharge is Not Occurring**

Current Order Table E-2, footnote 3, requires one 24-hour composite influent sample each month during the effluent discharge season, regardless of whether effluent discharge is or is not occurring. The District requests that Table E-2, footnote 3 in the renewed Order read, "Monitoring only required in months when a discharge to Bloods Creek occurs." Year-round monthly monitoring of influent quality will continue to occur under Order No. 5-01-208.

3. **Eliminating Effluent Monitoring when Discharge is Not Occurring**

The current Order requires effluent monitoring even when effluent discharges to Bloods Creek are not occurring (e.g., current Order Table E-6, footnote 1 and footnote 4). The District has provided these data in 2017, 2018, 2019, and 2020, and believes further data adds little to the overall relevant database. The District discharges only when it believes it is both necessary for long-term effluent management and appropriate considering real-time Bloods Creek conditions. Effluent quality when these discharge criteria are not met may be different from when these criteria are met. Thus, under the current Order, the District may be spending public money on effluent monitoring that does not represent information relevant to actual effluent discharge events. Accordingly, the District requests that the renewed Order not require effluent monitoring when effluent discharges to Bloods Creek are not occurring.

4. **Eliminating the lbs/day Effluent Limitations Not Based on a Total Maximum Daily Load (TMDL)**

Since the lbs/day effluent limitations are based directly on flow (which is regulated) and concentration (which is also regulated), the District believes lbs/day effluent limitations are redundant and therefore should be removed from the renewed Order. The district believes this request is consistent with current Regional Water Board permitting practices.

5. **Scheduling Priority Pollutant Monitoring**

The Regional Water Board's April 28, 2020 letter states that the Reasonable Potential Analysis (RPA) "is conducted using effluent and receiving water data collected over the last three years." The District is requesting guidance on the timing of the priority pollutant monitoring during the five-year permit term considering that 1) under the current Order, priority pollutant monitoring was conducted in the first snowmelt season in which the District discharged, and in the renewed Order this monitoring could be as early as Year 1

**Reference: Bear Valley Water District Report of Waste Discharge**

and potentially further than three years from when the RPA may be conducted for future renewal, 2) the next renewal application is forecast to be due at the end of Year 4 (i.e., the next renewal application is forecast to be due one year in advance of permit expiration), and 3) the District does not discharge to Bloods Creek every snowmelt season.

**6. Regarding pH**

With the District's pond treatment process (i.e., equivalent secondary treatment) and polishing/storage reservoir, effluent pH swings are a natural process. The District believes the current 6.0/9.0 instantaneous minimum/maximum effluent limitations are appropriate to the District's facilities. The District also believes the 6.5 to 8.5 receiving water limitations on pH are also appropriate. The more restrictive of the two limitations (typically that is the 6.0 effluent limitation) is what controls District discharge operations. Accordingly, the District monitors effluent discharge pH continuously and automatically stops discharge and recirculates effluent at pH 6.1 to avoid an instantaneous 5.9 reading during discharge (from pH meter drive, decay of pine needles, or pollen blown into the reservoir near the effluent outlet). Under this control strategy, compliance with current Order pH limitations has been excellent. There have been no violations of either effluent limitations or receiving water limitations for pH during the current Order term.

**Table 1** below shows the range of pH from March 2017 through June 2019 during snowmelt season measured at three locations – 1) effluent pH, 2) ambient Bloods Creek pH measured 50 feet upstream of the effluent discharge location (RSW-001), and 3) Bloods Creek pH 200 feet downstream of the effluent discharge location (RSW-002). The pH range of effluent discharged to Bloods Creek from March 2017 through June 2019 reflected a natural variability similar to that of Bloods Creek.

**Table 1                    Minimum and Maximum Effluent pH, RSW-001 pH, and RSW-002 pH  
Measured from March 2017 through June 2019**

	Effluent pH	RSW-001 pH <sup>[1]</sup>	RSW-002 pH <sup>[2]</sup>
Minimum	6.00	6.58	6.64
Maximum	8.99	8.89	8.18

[1] RSW-001 is measured 50 ft upstream of the effluent discharge location.

[2] RSW-002 is measured 200 ft downstream of the effluent discharge location.

**Reference: Bear Valley Water District Report of Waste Discharge**

**Table 2** below shows the RSW-001 pH and average effluent pH measured on the days when the maximum and minimum RSW-002 pH values were measured when discharge was occurring from March 2017 through June 2019. The effluent discharge under actual field conditions has buffered (lowered) Bloods Creek high pH values and has not caused Bloods Creek pH at RSW-002 to fall below the 6.5 water quality objective.

**Table 2            RSW-001 pH and Effluent pH Measured on the days when the Minimum and Maximum RSW-002 pH Values were Measured**

Date	RSW-002 pH	RSW-001 pH	Average Effluent pH
May 22, 2019	6.64	6.79	6.26
March 15, 2017	8.18	8.70	6.49
April 5, 2017	8.18	8.74	6.20

Any change in effluent limitations and/or receiving water limitations may require potentially material modifications of District facilities and/or operations. Consequently, the District requests that the Regional Water Board contact the District prior to the release of a tentative Order to discuss pH related issues if changes in pH limitations are being considered for the renewed Order.

Feel free to contact me with any questions you might have regarding this submittal, or if you require additional information. The District appreciates the efforts you and your staff have made to accommodate previous amendments as well as your efforts to work closely with the District to renew the Order.

Sincerely,

Bear Valley Water District

A handwritten signature in black ink, appearing to read 'Jeff Gouveia', with a stylized flourish extending to the right.

Jeff Gouveia, District Manager

Attachment: Bear Valley Water District Report of Waste Discharge

CC: Kelly McGartland, Stantec Consulting Services Inc.



## Central Valley Regional Water Quality Control Board

18 March 2021

Jeff Gouveia  
General Manager  
(via email: [Jeff.Gouveia@bvwd.ca.gov](mailto:Jeff.Gouveia@bvwd.ca.gov))  
Bear Valley Water District  
P.O. Box 5027  
Bear Valley, CA 95223

**NOTIFICATION OF COMPLETE APPLICATION FOR A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT RENEWAL, WASTE DISCHARGE REQUIREMENTS ORDER R5-2016-0045-01 (NPDES PERMIT CA0085146), BEAR VALLEY WATER DISTRICT, BEAR VALLEY WASTEWATER TREATMENT FACILITY, ALPINE COUNTY**

Thank you for your Application/Report of Waste Discharge, dated 19 June 2020, for the renewal of your NPDES permit to continue discharging treated wastewater from the Bear Valley Water District, Bear Valley Wastewater Treatment Facility to Bloods Creek, a water of the United States, tributary to North Fork Stanislaus River. Your application was reviewed and found to be complete in accordance with section 122.21, Title 40, Code of Federal Regulations (40 CFR 122.21).

Order R5-2016-0045 will expire on 31 July 2021. Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff is in the process of developing the NPDES permit renewal. Pursuant to 40 CFR 122.6 and Title 23, California Code of Regulations, section 2235.4, Order R5-2016-0045 is hereby administratively extended and will remain fully effective and enforceable until an Order to renew the permit is adopted by the Central Valley Water Board.

If you have any questions regarding this matter, please contact Danielle Goode at (916) 464-4843 or [danielle.goode@waterboards.ca.gov](mailto:danielle.goode@waterboards.ca.gov).

James Marshall for  
Patrick Pulupa  
Digitally signed by  
James Marshall for  
Patrick Pulupa  
Date: 2021.03.18  
15:42:17 -07'00'

Patrick Pulupa  
Executive Officer



cc (via email):

Elizabeth Sablad, U.S. EPA, Region IX, San Francisco

Peter Kozelka, U.S. EPA, Region IX, San Francisco

Afrooz Farsimadan, State Water Resources Control Board, DWQ, Sacramento

Sarah Torres, PG Environmental (icis-npdes@pgenv.com)

# BEAR VALLEY WATER DISTRICT

## MEMORANDUM

**TO** Jeff Gouveia, District Manager

**FROM** Gary S. Ghio, P.E.

**RE** 1 In 100 Year Water Balance – 2020 Update

**DATE** May 21, 2020

Jeff, as requested, I have updated the District's 1 in 100 year water balance as well as calculations of District capacity based upon precipitation levels experienced since water year 2015/2016 to the present water year.

Table 1 below presents a summary of data from the Bloods Creek gauging station for Maximum Total Precipitation and Maximum Snow Water Content for this time period as well as the Department of Water Resources (DWR) 1 in 100 year levels and what was experienced in water year 2010/2011 (basis of previous 1 in 100 year water balance).

**TABLE 1**

<b>Water Year</b>	<b>Total Precipitation (Inches)</b>	<b>Maximum Snow Water Content (Inches)</b>
1 in 100	83	60
2010/2011	84.73	60.82
2015/2016	62.94	33.72
2016/2017	98.36	45.84
2017/2018	44.38	13.00
2018/2019	48.73	39.94
2019/2020 (to date)	25.32	23.24

As the can be seen from Table 1, the winter of 2016/2017 once again exceeded the total precipitation criteria for 1 in 100 year storm season. Due to this, the District proceeded with its first ever successful discharge to Bloods Creek; and in addition, obtained valid creek flow data for Bloods Creek for the entire January through June potential discharge period.

## **2020 WATER BALANCE UPDATE**

Table 2 below presents a comparison of the total precipitation and snow water content projected in the 1 in 100-year water balances as well as what occurred during the 2010/2011 and the 2016/2017 precipitation seasons.

**TABLE 2**

	<b>1 IN 100</b>	<b>2010/2011</b>	<b>2016/2017</b>
Total Precipitation (In Inches)	83.00	84.73	98.36
Snow Water Content (In Inches)	60.00	60.82	45.84

As can be seen by the above comparisons of total precipitation and snow water content for 2010/2011 and 2016/2017, both storm seasons exceeded the 1 in 100 total precipitation level, but total precipitation was significantly higher and the snow water content was significantly lower in 2016/2017 as compared to 2010/2011.

Attached to this memorandum is the 2020 Update of the 2016/2017 water balance with actual flows/precipitation which was calibrated based upon actual storage levels encountered for November 2016 through October 2017 and the resulting 1 in 100 year water balance (see Tables 6 and 7).

As can be seen by the actual precipitation water balance, the estimated storage, predicted by the spreadsheet, tracks very closely with actual storage experienced during this time period which provides verification of the accuracy of the water balances.

As in previous water balances, the 1 in 100 year water balance was performed with updated 90<sup>th</sup> percentile collection system flows for the time period 2000 thru 2019. Based upon this balance, the District would need to discharge approximated 82 MG of wastewater to ensure the polishing pond did not overflow which is less than the actual 92 MG which was discharged in 2016/2017 as the water year exceeded the 100 year levels.

### **Bloods Creek Flows and Assimilative Capacity**

The capacity of the District to serve additional customers is driven by the assimilative capacity of Bloods Creek flows due to the method of wastewater disposal by stream discharge in accordance with the District's NPDES permit. The following Tables 3 and 4 present summaries of Bloods Creek flows and assimilative capacity (20:1 dilution) for the potential months of discharge for both water years 2010/2011 and 2016/2017.

**TABLE 3**

<b>BLOODS CREEK TOTAL FLOW (MG)</b>						
<b>YEAR</b>	<b>JANUARY</b>	<b>FEBRUARY</b>	<b>MARCH</b>	<b>APRIL</b>	<b>MAY</b>	<b>JUNE</b>
<b>2010/2011</b>	---	---	232	736	1163	1705
<b>2016/2017</b>	589	806	520	911	1408	732

**TABLE 4**

<b>20:1 DILUTION BLOODS CREEK FLOWS (MG)</b>						
<b>YEAR</b>	<b>JANUARY</b>	<b>FEBRUARY</b>	<b>MARCH</b>	<b>APRIL</b>	<b>MAY</b>	<b>JUNE</b>
<b>2010/2011</b>	---	---	11.0	35.1	55.4	81.2
<b>2016/2017</b>	28.0	38.4	24.7	43.4	67.1	35.8

The following Table 5 presents the amounts of wastewater discharged in 2016/2017 along with remaining assimilative capacity.

**TABLE 5**

<b>2016/2017 WATER YEAR : EXCESS ASSIMILATIVE CAPACITY (MG)</b>							
	<b>JANUARY</b>	<b>FEBRUARY</b>	<b>MARCH</b>	<b>APRIL</b>	<b>MAY</b>	<b>JUNE</b>	<b>TOTAL</b>
<b>Discharge Amount</b>	0	0	15.8	29.9	29.7	16.9	
<b>Remaining Capacity</b>	28.0	38.4	8.9	13.5	37.4	18.9	145.1

As can be seen by Table 5 there was a total of approximately 145 MG of remaining assimilative capacity in Bloods Creek in water year 2016/2017 to support District growth and additional amounts of discharge.

### **District Capacity**

The Regional Water Quality Control Board criteria to perform 1 in 100 year projections is to utilize a historical DWR monitoring site in order to derive the 100 year monthly distribution of precipitation. As no DWR site currently exists near Bear Valley which has this data, the previous water balances and capacity determinations were based on the monthly distribution of precipitation that was experienced in 2010/2011 which was the last year of 1 in 100 year total precipitation exceedance at that time.

The 2016/2017 precipitation year also exceeded the 1 in 100 year total precipitation amount, but the pattern differed significantly from what was experienced in 2010/2011. The 2016/2017 1 in 100 year water balance projections which are attached to this memorandum (see Table 8 and Table 9) were performed utilizing both precipitation patterns reduced down to 1 in 100 year levels along with updated 90<sup>th</sup> percentile collection system flows for 2000 thru 2019. This analysis was performed to ensure the water balances' basis is the worst case precipitation level and pattern based upon available data.

In comparing Table 8 and Table 9, the 2016/2017 precipitation pattern would have been a worst year in terms of volume of discharge required (121.5 MG) as compared to 2010/2011 (114.8 MG) but not of such significance that it would alter the previous capacity determination in 2016 of an additional 1,196 EDUs. In addition, it is anticipated that sufficient assimilative capacity exists in Bloods Creek to support this level of discharge based upon the 145 MG of excess assimilative capacity in water year 2016/017.

Should you have any questions regarding any of the information contained in this memo please let me know.

#2318/nlm

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TABLE 6

BEAR VALLEY WATER DISTRICT WATER TREATMENT AND DISPOSAL SYSTEM													6/8/2020	9:26
(2020 update) 2016/2017 Water Year - Actual Flows/Precipitation														
INPUT DATA														
TREATMENT POND CHARACTERISTICS			STORAGE RESERVOIR		IRRIGATION AREA CHARACTERISTICS					CLIMATOLOGICAL FACTORS				
GROSS AREA (ac).....	3.2		GROSS AREA (ac).....	18.6	DISTRICT DISPOSAL LAND (AC).....	80				OCT-APR EVAP/AVG EVAP RATIO.....			0.76	
WATER SURFACE AREA (ac).....	2.9		MAX. WATER SURFACE (ac).....	14.2	SOIL WATER DEFICIT BEFORE IRRIGATION (IN).....	n/a				MAY-SEP EVAP/AVG EVAP RATIO.....			1.00	
					FRACT OF LAND IRRIGATED .....	n/a				PAN COEFFICIENT.....			0.80	
			STORAGE CAPACITY (MG).....	76.43	IRRIGATION EFFICIENCY (DECIMAL FRACT).....	n/a				LAND PRECIP COLLECTED (FRAC).....			0.9	
			FRAC EST. PERC.....	1.0	FRACTION OF EST. PERC RATE .....	n/a								
PARAMETER / MONTH	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	ANNUAL	
DAYS IN MONTH	30	31	31	28	31	30	31	30	31	31	30	31	365	
AVG PAN EVAP (IN)	0.89	0.61	0.76	0.83	2.14	3.69	5.34	6.64	7.63	6.87	5.17	3.05	43.62	
ACTUAL PRECIP (IN)	3.47	9.29	33.72	26.04	6.27	10.16	1.20	2.09	0.37	1.98	3.27	0.50	98.36	
ACTUAL SNOW ACCUM (IN Water) <sub>(g)</sub>	2.28	4.56	27.72	43.32	40.56	39.24	0.00	0.00	0.00	0.00	0.00	2.76		
ACTUAL SNOW MELT IN MONTH (IN Water)	0.84	1.08	0.00	1.32	8.40	10.56	39.24	0.00	0.00	0.00	0.00	0.71	62.15	
ACTUAL NEW SNOW IN MONTH (IN Water)	3.12	3.36	23.16	16.92	5.64	9.24	0.00	0.00	0.00	0.00	0.00	3.47	64.91	
ESTIMATED MAX PERCOLATION (IN) <sub>(a)</sub>	10.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ACTUAL INFLUENT FLOW (Avg. GAL/D)	32,967	93,548	152,032	212,250	121,032	156,800	186,581	108,700	61,097	34,742	25,633	15,032		
CALCULATIONS														
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	ANNUAL	
WASTEWATER VOLUME (gal)	989,010	2,899,988	4,712,992	5,943,000	3,751,992	4,704,000	5,784,011	3,261,000	1,894,007	1,077,002	768,990	465,992	36,251,984	
EVAPORATION (IN)	0.5	0.4	0.5	0.5	1.3	2.2	4.3	5.3	6.1	5.5	4.1	1.9	32.6	
PRECIPITATION (IN)	3.47	9.29	33.72	26.04	6.27	10.16	1.20	2.09	0.37	1.98	3.27	0.50	98.36	
TREATMENT POND														
PERCOLATION (IN)	8.38	5.41	12.69	7.74	5.73	21.66	15.57	17.29	4.18	2.11	2.81	2.97	106.55	
PERC VOLUME (gal)	659,620	426,378	999,502	609,371	451,372	1,705,370	1,226,247	1,361,614	329,361	166,362	221,115	233,864	8,390,176	
EVAP. VOLUME (gal)	39,374	31,499	39,374	39,374	102,372	173,244	338,614	417,361	480,359	433,111	322,864	149,620	2,567,166	
PRECIP. VOLUME (gal)	298,694	799,675	2,902,587	2,241,499	539,716	874,564	103,295	179,905	31,849	170,437	281,479	43,040	8,466,739	
TREATMENT DISPOSAL(GAIN)/ (gal)	(400,299)	341,798	1,863,711	1,592,754	(14,028)	(1,004,051)	(1,461,566)	(1,599,070)	(777,871)	(429,036)	(262,501)	(340,445)	(2,490,604)	
POLISHING RESERVOIR														
PERCOLATION (IN)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PERC VOLUME (gal)	0	0	0	0	0	0	0	0	0	0	0	0	0	
W.S. AREA (ac) <sub>(b)</sub>	7.16	8.28	9.48	11.44	13.13	12.76	11.50	10.65	9.14	7.98	4.74	3.98		
EVAP. VOLUME (gal)	97,240	89,947	128,649	155,286	463,341	762,439	1,342,302	1,532,791	1,513,460	1,192,525	528,252	205,171	8,011,403	
PRECIP. VOLUME (gal)	1,647,361	4,438,600	16,220,186	12,664,636	3,078,178	4,977,915	583,815	1,012,012	177,639	944,417	1,530,949	233,047	47,508,757	
MONTHLY AVAIL. SNOWMELT (IN) <sub>(c)</sub>	0.84	1.08	0.00	1.32	8.40	10.56	39.24	0.00	0.00	0.00	0.00	0.71	62.15	
ESTIMATED SNOW CONTR. (%) <sub>(d)</sub>	100%	100%	100%	100%	40%	40%	30%	0%	0%	0%	0%	0%		
ESTIMATED AREA OF INFLUENCE (ac)	50	50	50	50	50	50	50	50	50	50	50	50		
ESTIMATED INFLUX TO STORAGE (gal) <sub>(e)</sub>	1,140,480	1,466,331	0	1,792,183	4,561,920	5,734,985	15,983,013	0	0	0	0	0	30,678,912	
RESERVOIR DISPOSAL(GAIN) (gal)	2,690,601	5,814,985	16,091,537	14,301,533	7,176,758	9,950,461	15,224,525	(520,779)	(1,335,820)	(248,108)	1,002,697	27,876	70,176,266	
IRRIGATION														
IRRIGATION DISPOSAL (gal) <sub>(f)</sub>	0	0	0	0	0	0	0	0	7,486,000	6,228,000	2,337,000	0	16,051,000	
STORAGE														
BEGINNING STORAGE (gal)	5,800,000	9,079,312	18,136,083	40,804,324	62,641,611	57,733,484	41,522,884	31,387,854	15,667,005	7,961,321	2,133,178	1,305,365		
CALCULATED STORAGE GAIN (gal)	3,279,312	9,056,771	22,668,241	21,837,287	10,914,721	13,650,410	19,546,970	1,141,151	-7,705,685	-5,828,142	-827,814	153,424		
PROJECTED ESTIMATED STORAGE (gal)	9,079,312	18,136,083	40,804,324	62,641,611	73,556,332	71,383,894	61,069,854	32,529,005	7,961,321	2,133,178	1,305,365	1,458,788	=CARRYOVER	
AMOUNT DISCHARGED TO BLOODS CREEK (gal)	0	0	0	0	15,822,848	29,861,010	29,682,000	16,862,000	0	0	0	0	92,227,858	
ESTIMATED STORAGE (gal)	9,079,312	18,136,083	40,804,324	62,641,611	57,733,484	41,522,884	31,387,854	15,667,005	7,961,321	2,133,178	1,305,365	1,458,788		
ACTUAL STORAGE (gal)	6,700,000	17,830,000	41,740,000	64,200,000	56,340,000	39,880,000	27,490,000	13,250,000	6,850,000	1,790,000	0	980,000		

(a) Estimated percolation based upon measured inflow components, estimated evaporation, and actual reservoir levels in 2011 - in Storage Reservoir only.

(b) Reservoir water surface area is a function of storage volume at start of month.

(c) Estimated snowmelt volume available for influx to storage reservoir

(d) Estimated percentage of snowmelt contributing to influx to reservoir

(e) Estimated based on fraction of accumulated snow within reservoir "area of influence" entering the reservoir during snowmelt months

(f) Disposal capacity based on maximum estimated land disposal volumes

(g) Per Bloods Creek Gauging Station

(h) Not used in calculations.

TABLE 7

BEAR VALLEY WATER DISTRICT WASTEWATER TREATMENT AND DISPOSAL SYSTEM													6/8/2020	9:26
(2020 update) 2016/2017 water year: 1 in 100 Year Water Balance Projection - 2000 thru 2019 90TH Percentile monthly ADF														
INPUT DATA														
TREATMENT POND CHARACTERISTICS			STORAGE RESERVOIR			IRRIGATION AREA CHARACTERISTICS				CLIMATOLOGICAL FACTORS				
GROSS AREA (ac).....	3.2		GROSS AREA (ac).....	18.6		DISTRICT DISPOSAL LAND (AC).....	80			OCT-APR EVAP/AVG EVAP RATIO.....	0.76			
WATER SURFACE AREA (ac).....	2.9		MAX. WATER SURFACE (ac).....	14.2		SOIL WATER DEFICIT BEFORE IRRIGATION (IN).....	n/a			MAY-SEP EVAP/AVG EVAP RATIO.....	1.00			
			STORAGE CAPACITY (MG).....	76.43		FRACTION OF LAND IRRIGATED.....	n/a			PAN COEFFICIENT.....	0.80			
			FRAC EST. PERC.....	1.0		IRRIGATION EFFICIENCY (DECIMAL FRACT).....	n/a			LAND PRECIP COLLECTED (FRAC).....	0.9			
PARAMETER / MONTH	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	ANNUAL	
DAYS IN MONTH	30	31	31	28	31	30	31	30	31	31	30	31	365	
AVG PAN EVAP (IN)	0.89	0.61	0.76	0.83	2.14	3.69	5.34	6.64	7.63	6.87	5.17	3.05	43.62	
ESTIMATED PRECIP (IN)	3.17	8.48	30.79	22.56	5.72	9.28	1.10	1.91	0.00	0.00	0.00	0.00	83.00	
ESTIMATED SNOW ACCUM (IN Water) <sub>(a)</sub>	2.23	4.46	27.12	42.39	39.69	38.40	0.00	0.00	0.00	0.00	0.00	0.00		
ESTIMATED SNOW MELT IN MONTH (IN Water)	0.82	1.06	0.00	1.29	8.10	10.33	38.40	0.00	0.00	0.00	0.00	0.00	60.00	
ESTIMATED NEW SNOW IN MONTH (IN Water)	3.05	3.29	22.66	16.56	5.40	9.04	0.00	0.00	0.00	0.00	0.00	0.00	60.00	
ESTIMATED MAX PERCOLATION (IN) <sub>(a)</sub>	10.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
90TH PERCENTILE EXISTING FLOWS (Avg. GAL/D)	37135	77828	98766	131156	125459	186046	188872	127254	73229	61715	38479	31386		
CALCULATIONS														
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	ANNUAL	
WASTEWATER VOLUME (gal)	1,114,050	2,412,668	3,061,746	3,672,368	3,889,229	5,581,380	5,855,032	3,817,620	2,270,099	1,913,165	1,154,370	972,966	35,714,693	
EVAPORATION (IN)	0.5	0.4	0.5	0.5	1.3	2.2	4.3	5.3	6.1	5.5	4.1	1.9	32.6	
PRECIPITATION (IN)	3.17	8.48	30.79	22.56	5.72	9.28	1.10	1.91	0.00	0.00	0.00	0.00	83.01	
TREATMENT POND														
PERCOLATION (IN)	8.38	5.41	12.69	7.74	5.73	21.66	15.57	17.29	4.18	2.11	2.81	2.97	106.55	
PERC. VOLUME (gal)	659,620	426,378	999,502	609,371	451,372	1,705,370	1,226,247	1,361,614	329,361	166,362	221,115	233,864	8,390,176	
EVAP. VOLUME (gal)	39,374	31,499	39,374	39,374	102,372	173,244	338,614	417,361	480,359	433,111	322,864	149,620	2,567,166	
PRECIP. VOLUME (gal)	272,871	729,951	2,650,375	1,941,944	492,372	798,814	94,687	164,411	0	0	0	0	7,145,425	
TREATMENT DISPOSAL(GAIN/)(gal)	(426,123)	272,074	1,611,500	1,293,199	(61,372)	(1,079,801)	(1,470,174)	(1,614,564)	(809,720)	(599,473)	(543,979)	(383,484)	(3,811,918)	
POLISHING RESERVOIR														
PERCOLATION (IN)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PERC. VOLUME (gal)	0	0	0	0	0	0	0	0	0	0	0	0	0	
W.S. AREA (ac) <sub>(b)</sub>	6.20	7.76	9.10	10.93	12.34	12.08	11.08	10.50	9.09	2.76	2.64	2.57		
EVAP. VOLUME (gal)	84,162	84,320	123,611	148,393	435,664	721,775	1,293,979	1,511,261	1,504,881	412,533	293,500	132,594	6,746,672	
PRECIP. VOLUME (gal)	1,496,647	4,039,668	14,779,755	10,941,027	2,795,985	4,529,604	533,927	924,078	0	0	0	0	40,040,690	
MONTHLY AVAIL. SNOWMELT (IN) <sub>(c)</sub>	0.82	1.06	0.00	1.29	8.10	10.33	38.40	0.00	0.00	0.00	0.00	0.00	60.00	
ESTIMATED SNOW CONTR. (%) <sub>(d)</sub>	100%	100%	100%	100%	40%	40%	30%	0%	0%	0%	0%	0%		
ESTIMATED AREA OF INFLUENCE (ac)	50	50	50	50	50	50	50	50	50	50	50	50		
ESTIMATED INFLUX TO STORAGE (gal) <sub>(e)</sub>	1,115,930	1,434,767	0	1,753,604	4,399,951	5,611,532	15,638,956	0	0	0	0	0	29,954,738	
RESERVOIR DISPOSAL(GAIN)(gal)	2,528,414	5,390,114	14,656,145	12,546,237	6,760,272	9,419,361	14,878,904	(587,183)	(1,504,881)	(412,533)	(293,500)	(132,594)	63,248,756	
IRRIGATION														
IRRIGATION DISPOSAL (gal) <sub>(f)</sub>	0	0	0	0	0	0	0	0	14,950,000	1,010,000	376,000	506,500	16,842,500	
STORAGE														
BEGINNING STORAGE (gal)	4,060,000	7,276,341	15,351,197	34,680,588	52,192,392	48,856,553	36,500,069	29,644,089	15,159,962	165,459	56,619	0		
CALCULATED STORAGE GAIN (gal)	3,216,341	8,074,856	19,329,390	17,511,804	10,588,129	13,920,940	19,263,762	1,615,873	-14,994,503	-108,841	-59,109	-49,613		
PROJECTED ESTIMATED STORAGE (gal)	7,276,341	15,351,197	34,680,588	52,192,392	62,780,521	62,777,493	55,763,831	31,259,962	165,459	56,619	0	0		
AMOUNT DISCHARGED TO BLOODS CREEK (gal)	0	0	0	0	13,923,968	26,277,424	26,119,742	16,100,000	0	0	0	0	82,421,134	
ESTIMATED STORAGE (gal)	7,276,341	15,351,197	34,680,588	52,192,392	48,856,553	36,500,069	29,644,089	15,159,962	165,459	56,619	0	0		
													MAXIMUM STORAGE (MG).....	52.19
													AVAILABLE STORAGE (MG).....	76.43
SUMMARY														
ANNUAL INFLOW (MG)													ANNUAL OUTFLOW POTENTIAL (MG)	
WASTEWATER.....	35.71												AMOUNT DISCHARGED TO BLOODS CREEK.....	82.42
PRECIPITATION.....	47.19												EVAPORATION.....	9.31
SNOW INFLUX (MG).....	29.95												PERCOLATION.....	8.39
TOTAL	112.86												IRRIGATION.....	16.84
													TOTAL	116.97
													OVERALL BALANCE	
													UNUSED DISPOSAL CAPACITY (MG).....	0.05
													(MUST NOT BE NEGATIVE)	
													UNUSED STORAGE CAPACITY (MG).....	24.24
													(MUST NOT BE NEGATIVE)	

(a) Estimated percolation based upon measured inflow components, estimated evaporation, and actual reservoir levels in 2011 - in Storage Reservoir only.

(b) Reservoir water surface area is a function of storage volume at start of month.

(c) Estimated snowmelt volume available for influx to storage reservoir.

(d) Estimated percentage of snowmelt contributing to influx to reservoir.

(e) Estimated based on fraction of accumulated snow within reservoir "area of influence" entering the reservoir during snowmelt months.

(f) Disposal capacity based on maximum estimated land disposal volumes.

(g) Per Bloods Creek Gauging Station

(h) Not used in calculations

Table 7 (2020 update) 2016-2017-1in100waterbalance (90th percentile 2000-2019).xls



TABLE 8

BEAR VALLEY WATER DISTRICT WASTEWATER TREATMENT AND DISPOSAL SYSTEM											6/8/2020		9.26																																		
(2020 update- 2010/2011 Precip. Pattern) 1 in 100 Year Water Balance Projection - 2000 thru 2019 90TH Percentile monthly ADF plus 1196 EDU (201 gpd/EDU) - Assumes no infiltration with new EDUs																																															
INPUT DATA																																															
TREATMENT POND CHARACTERISTICS			STORAGE RESERVOIR			IRRIGATION AREA CHARACTERISTICS				CLIMATOLOGICAL FACTORS																																					
GROSS AREA (ac).....			3.2			GROSS AREA (ac).....			18.6			DISTRICT DISPOSAL LAND (AC).....			80			OCT-APR EVAP/AVG EVAP RATIO.....			0.76																										
WATER SURFACE AREA (ac).....			2.9			MAX. WATER SURFACE (ac).....			14.2			SOIL WATER DEFICIT BEFORE IRRIGATION (IN).....			n/a			MAY-SEP EVAP/AVG EVAP RATIO.....			1.00																										
						STORAGE CAPACITY (MG).....			76.43			FRACT OF LAND IRRIGATED.....			n/a			PAN COEFFICIENT.....			0.80																										
						FRAC EST. PERC.....			1.0			IRRIGATION EFFICIENCY (DECIMAL FRACT).....			n/a			LAND PRECIP COLLECTED (FRAC).....			0.9																										
						FRACTION OF EST. PERC RATE.....						n/a																																			
PARAMETER / MONTH			NOV			DEC			JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			ANNUAL								
DAYS IN MONTH			30			31			31			28			31			30			31			30			31			31			365														
AVG PAN EVAP (IN)			0.89			0.61			0.76			0.83			2.14			3.69			5.34			6.64			7.63			6.87			5.17			3.05			43.62								
ESTIMATED PRECIP (IN)			10.66			20.00			2.84			10.62			21.42			3.37			4.65			1.57			1.66			0.00			1.86			4.35			83.00								
ESTIMATED SNOW ACCUM (IN Water) <sub>(g)</sub>			7.82			23.83			26.08			36.04			53.71			41.62			22.88			0.00			0.00			0.00			0.00			2.96											
ESTIMATED SNOW MELT IN MONTH (IN Water)			0.00			0.00			0.36			0.12			0.71			13.40			21.11			22.88			0.00			0.00			0.00			1.42			60.00								
ESTIMATED NEW SNOW IN MONTH (IN Water)			7.82			16.01			2.61			10.08			18.27			1.30			2.37			0.00			0.00			0.00			0.00			1.53			60.00								
ESTIMATED MAX PERCOLATION (IN) <sub>(e)</sub>			10.0			29.0			0.0			0.0			0.0			0.0			0.0			0.0			0.0			0.0			0.0			0.0											
# OF ADDITIONAL CONNECTIONS (RLU)			1,196			1,196			1,196			1,196			1,196			1,196			1,196			1,196			1,196			1,196			1,196			1,196											
ADDITIONAL INFLUENT FLOW (GAL/D)			240,396			240,396			240,396			240,396			240,396			240,396			240,396			240,396			240,396			240,396			240,396			240,396											
90TH PERCENTILE EXISTING FLOWS (Avg. GAL/D)			37,135			77,828			98,766			131,156			125,459			186,046			188,872			127,254			73,229			61,715			38,479			31,386											
TOTAL INFLUENT FLOW (GAL/D)			277,531			318,224			339,162			371,552			365,855			426,442			429,268			367,650			313,625			302,111			278,875			271,782											
CALCULATIONS																																															
			NOV			DEC			JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEP			OCT			ANNUAL								
WASTEWATER VOLUME (gal)			8,325,930			9,864,944			10,514,022			10,403,456			11,341,505			12,793,260			13,307,308			11,029,500			9,722,375			9,365,441			8,366,250			8,425,242			123,459,233								
EVAPORATION (IN)			0.5			0.4			0.5			0.5			1.3			2.2			4.3			5.3			6.1			5.5			4.1			1.9			32.6								
PRECIPITATION (IN)			10.66			20.00			2.84			10.62			21.42			3.37			4.65			1.57			1.66			0.00			1.86			4.35			83.00								
TREATMENT POND																																															
PERCOLATION (IN)			8.38			5.41			12.69			7.74			5.73			21.66			15.57			17.29			4.18			2.11			2.81			2.97			106.55								
PERC. VOLUME (gal)			659,620			426,378			999,502			609,371			451,372			1,705,370			1,226,247			1,361,614			329,361			166,362			221,115			233,864			8,390,176								
EVAP. VOLUME (gal)			39,374			31,499			39,374			39,374			102,372			173,244			338,614			417,361			480,359			433,111			322,864			149,620			2,567,166								
PRECIP. VOLUME (gal)			917,603			1,721,582			244,465			914,160			1,843,814			290,087			400,268			135,144			142,891			0			160,107			374,444			7,144,564								
TREATMENT DISPOSAL(GAIN) <sub>(f)</sub> (gal)			218,609			1,263,705			(794,411)			265,415			1,290,070			(1,588,528)			(1,164,593)			(1,643,831)			(666,829)			(599,473)			(383,872)			(9,040)			(3,812,778)								
POLISHING RESERVOIR																																															
PERCOLATION (IN)			0.00			0.00			0.00			0.00			0.00			0.00			0.00			0.00			0.00			0.00			0.00			0.00			0.00								
PERC. VOLUME (gal)			0			0			0			0			0			0			0			0			0			0			0			0			0								
W.S. AREA (ac) <sub>(g)</sub>			6.20			9.38			11.22			11.76			12.28			12.56			11.13			10.91			10.36			10.13			8.53			3.36											
EVAP. VOLUME (gal)			84,162			101,860			152,374			159,611			433,572			750,075			1,299,758			1,570,694			1,716,787			1,513,309			949,396			173,416			8,905,014								
PRECIP. VOLUME (gal)			5,032,887			9,615,218			1,379,589			5,174,256			10,466,832			1,649,245			2,257,681			761,343			802,510			0			889,921			2,020,240			40,049,722								
MONTHLY AVAIL. SNOWMELT (IN) <sub>(c)</sub>			0.00			0.00			0.36			0.12			0.71			13.40			21.11			22.88			0.00			0.00			0.00			1.42			60.00								
ESTIMATED SNOW CONTR. (%) <sub>(d)</sub>			0%			0%			0%			0%			0%			0%			45%			28%			50%			50%			50%			50%											
ESTIMATED AREA OF INFLUENCE (ac)			50			50			50			50			50			50			50			50			50			50			50			50			50								
ESTIMATED INFLUX TO STORAGE (gal) <sub>(e)</sub>			0			0			0			0			0			0			12,897,727			8,697,780			0			0			0			966,122			22,561,629								
RESERVOIR DISPOSAL(GAIN) <sub>(f)</sub> (gal)			4,948,725			9,513,358			1,227,215			5,014,645			10,033,260			899,170			13,855,650			7,888,429			(914,277)			(1,513,309)			(59,476)			2,812,946			53,706,336								
IRRIGATION																																															
IRRIGATION DISPOSAL (gal) <sub>(h)</sub>			0			0			0			0			0			0			0			0			10,796,000			22,361,000			17,521,000			11,999,000			62,677,000								
STORAGE																																															
BEGINNING STORAGE (gal)			4,060,000			17,553,265			38,195,271			44,742,097			51,425,613			54,990,448			37,094,350			34,492,715			28,066,813			25,412,082			10,303,741			705,643											
CALCULATED STORAGE GAIN (gal)			13,493,265			20,642,007			10,946,826			15,683,516			22,664,835			12,103,902			25,998,365			17,274,097			-2,654,731			-15,108,340			-9,598,098			-769,852											
PROJECTED ESTIMATED STORAGE (gal)			17,553,265			38,195,271			49,142,097			60,425,613			74,090,448			67,094,350			63,092,715			51,766,813			25,412,082			10,303,741			705,643			0											
AMOUNT DISCHARGED TO BLOODS CREEK (gal)			0			0			4,400,000			9,000,000			19,100,000			30,000,000			28,600,000			23,700,000			0			0			0			0			114,800,000								
ESTIMATED STORAGE (gal)			17,553,265			38,195,271			44,742,097			51,425,613			54,990,448			37,094,350			34,492,715			28,066,813			25,412,082			10,303,741			705,643			0											

(a) Estimated percolation based upon measured inflow components, estimated evaporation, and actual reservoir levels in 2011 - in Storage Reservoir only.

(b) Reservoir water surface area is a function of storage volume at start of month.

(c) Estimated snowmelt volume available for influx to storage reservoir

(d) Estimated percentage of snowmelt contributing to influx to reservoir

(e) Estimated based on fraction of accumulated snow within reservoir "area of influence" entering the reservoir during snowmelt months.

(f) Disposal capacity based on maximum estimated land disposal volumes.

(g) Per Bloods Creek Gauging Station

(h) Not used in calculations

TABLE 9

BEAR VALLEY WATER DISTRICT WASTEWATER TREATMENT AND DISPOSAL SYSTEM													9/26	
(2020 update - 2016-2017 Precip. Pattern) 1 in 100 Year Water Balance Projection - 2000 thru 2019 90TH Percentile monthly ADF plus 1196 EDU (201 gpd/EDU) - Assumes no infiltratin with new EDUs														
INPUT DATA														
TREATMENT POND CHARACTERISTICS		STORAGE RESERVOIR		IRRIGATION AREA CHARACTERISTICS				CLIMATOLOGICAL FACTORS						
GROSS AREA (ac).....	3.2	GROSS AREA (ac).....	18.6	DISTRICT DISPOSAL LAND (AC).....	80	OCT-APR EVAP/AVG EVAP RATIO.....								0.76
WATER SURFACE AREA (ac).....	2.9	MAX. WATER SURFACE (ac).....	14.2	SOIL WATER DEFICIT BEFORE IRRIGATION (IN).....	n/a	MAY-SEP EVAP/AVG EVAP RATIO.....								1.00
		STORAGE CAPACITY (MG).....	76.43	FRACT OF LAND IRRIGATED.....	n/a	PAN COEFFICIENT.....								0.80
		FRAC EST. PERC.....	1.0	IRRIGATION EFFICIENCY (DECIMAL FRACT).....	n/a	LAND PRECIP COLLECTED (FRAC).....								0.9
		FRACTION OF EST. PERC RATE .....			n/a									
PARAMETER / MONTH	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	ANNUAL	
DAYS IN MONTH	30	31	31	28	31	30	31	30	31	31	30	31	365	
AVG PAN EVAP (IN)	0.89	0.61	0.76	0.83	2.14	3.69	5.34	6.64	7.63	6.87	5.17	3.05	43.62	
ESTIMATED PRECIP (IN)	2.93	7.84	28.46	21.98	5.29	8.57	1.01	1.76	0.31	1.67	2.76	0.42	83.00	
ESTIMATED SNOW ACCUM (IN Water) <sub>(g)</sub>	2.23	4.46	27.12	42.39	39.69	38.40	0.00	0.00	0.00	0.00	0.00	0.00		
ESTIMATED SNOW MELT IN MONTH (IN Water)	0.81	1.04	0.00	1.27	8.11	10.19	37.88	0.00	0.00	0.00	0.00	0.70	60.00	
ESTIMATED NEW SNOW IN MONTH (IN Water)	2.88	3.11	21.41	15.64	5.21	8.54	0.00	0.00	0.00	0.00	0.00	3.21	60.00	
ESTIMATED MAX PERCOLATION (IN) <sub>(e)</sub>	10.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
# OF ADDITIONAL CONNECTIONS (RLU)	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196		
ADDITIONAL INFLUENT FLOW (GAL/D)	240,396	240,396	240,396	240,396	240,396	240,396	240,396	240,396	240,396	240,396	240,396	240,396		
90TH PERCENTILE EXISTING FLOWS (Avg. GAL/D)	37,135	77,828	98,766	131,156	125,459	186,046	188,872	127,254	73,229	61,715	38,479	31,386		
TOTAL INFLUENT FLOW (GAL/D)	277,531	318,224	339,162	371,552	365,855	426,442	429,268	367,650	313,625	302,111	278,875	271,782		
CALCULATIONS														
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	ANNUAL	
WASTEWATER VOLUME (gal)	8,325,930	9,864,944	10,514,022	10,403,456	11,341,505	12,793,260	13,307,308	11,029,500	9,722,375	9,365,441	8,366,250	8,425,242	123,459,233	
EVAPORATION (IN)	0.5	0.4	0.5	0.5	1.3	2.2	4.3	5.3	6.1	5.5	4.1	1.9	32.6	
PRECIPITATION (IN)	2.93	7.84	28.46	21.98	5.29	8.57	1.01	1.76	0.31	1.67	2.76	0.42	83.00	
TREATMENT POND														
PERCOLATION (IN)	8.38	5.41	12.69	7.74	5.73	21.66	15.57	17.29	4.18	2.11	2.81	2.97	106.55	
PERC. VOLUME (gal)	659,620	426,378	999,502	609,371	451,372	1,705,370	1,226,247	1,361,614	329,361	166,362	221,115	233,864	8,390,176	
EVAP. VOLUME (gal)	39,374	31,499	39,374	39,374	102,372	173,244	338,614	417,361	480,359	433,111	322,864	149,620	2,567,166	
PRECIP. VOLUME (gal)	252,212	674,860	2,449,811	1,892,018	455,358	737,698	86,940	151,499	26,685	143,752	237,578	36,153	7,144,564	
TREATMENT DISPOSAL(GAIN)/ (gal)	(446,782)	216,983	1,410,935	1,243,273	(98,386)	(1,140,917)	(1,477,921)	(1,627,476)	(783,036)	(455,721)	(306,401)	(347,331)	(3,812,778)	
POLISHING RESERVOIR														
PERCOLATION (IN)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
PERC. VOLUME (gal)	0	0	0	0	0	0	0	0	0	0	0	0	0	
W.S. AREA (ac) <sub>(a)</sub>	6.20	9.01	10.49	12.22	13.34	13.11	12.41	12.23	10.59	10.29	8.88	6.10		
EVAP. VOLUME (gal)	84,162	97,827	142,398	165,937	470,867	783,345	1,448,972	1,760,416	1,754,119	1,536,916	988,934	314,810	9,548,703	
PRECIP. VOLUME (gal)	1,383,336	3,761,261	13,768,250	10,736,865	2,600,122	4,207,034	493,883	859,780	150,056	807,011	1,323,189	198,183	40,288,970	
MONTHLY AVAIL. SNOWMELT (IN) <sub>(c)</sub>	0.81	1.04	0.00	1.27	8.11	10.19	37.88	0.00	0.00	0.00	0.00	0.70	60.00	
ESTIMATED SNOW CONTR. (%) <sub>(d)</sub>	100%	100%	100%	100%	40%	40%	30%	0%	0%	0%	0%	0%		
ESTIMATED AREA OF INFLUENCE (ac)	50	50	50	50	50	50	50	50	50	50	50	50		
ESTIMATED INFLUX TO STORAGE (gal) <sub>(e)</sub>	1,099,749	1,412,023	0	1,724,297	4,404,425	5,534,043	15,429,065	0	0	0	0	0	29,603,603	
RESERVOIR DISPOSAL(GAIN) (gal)	2,398,923	5,075,457	13,625,852	12,295,225	6,533,680	8,957,733	14,473,976	(900,636)	(1,604,063)	(729,905)	334,255	(116,627)	60,343,870	
IRRIGATION														
IRRIGATION DISPOSAL (gal) <sub>(f)</sub>	0	0	0	0	0	0	0	0	10,796,000	22,361,000	17,521,000	11,999,000	62,677,000	
STORAGE														
BEGINNING STORAGE (gal)	4,060,000	14,338,071	29,495,455	50,646,264	65,588,219	62,465,019	53,075,095	50,778,458	30,679,846	27,219,122	13,037,937	3,911,041		
CALCULATED STORAGE GAIN (gal)	10,278,071	15,157,384	25,550,810	23,941,954	17,776,800	20,610,076	26,303,363	8,501,388	-3,460,724	-14,181,185	-9,126,896	-4,037,716		
PROJECTED ESTIMATED STORAGE (gal)	14,338,071	29,495,455	55,046,264	74,588,219	83,365,019	83,075,095	79,378,458	59,279,846	27,219,122	13,037,937	3,911,041	0		
AMOUNT DISCHARGED TO BLOODS CREEK (gal)	0	0	4,400,000	9,000,000	20,900,000	30,000,000	28,600,000	28,600,000	0	0	0	0	121,500,000	
ESTIMATED STORAGE (gal)	14,338,071	29,495,455	50,646,264	65,588,219	62,465,019	53,075,095	50,778,458	30,679,846	27,219,122	13,037,937	3,911,041	0		
										MAXIMUM STORAGE (MG).....			65.59	
										AVAILABLE STORAGE (MG).....			76.43	
SUMMARY														
				ANNUAL OUTFLOW POTENTIAL (MG)										
ANNUAL INFLOW (MG)				AMOUNT DISCHARGED TO BLOODS CREEK.....				121.50				OVERALL BALANCE		
WASTEWATER .....				EVAPORATION.....				12.12				UNUSED DISPOSAL CAPACITY (MG).....		0.13
PRECIPITATION .....				PERCOLATION.....				8.39				(MUST NOT BE NEGATIVE)		
SNOW INFLUX (MG).....				IRRIGATION.....				62.68				UNUSED STORAGE CAPACITY (MG).....		10.84
TOTAL .....				TOTAL .....				204.68				(MUST NOT BE NEGATIVE)		

(a) Estimated percolation based upon measured inflow components, estimated evaporation, and actual reservoir levels in 2011 - in Storage Reservoir only.

(b) Reservoir water surface area is a function of storage volume at start of month.

(c) Estimated snowmelt volume available for influx to storage reservoir.

(d) Estimated percentage of snowmelt contributing to influx to reservoir

(e) Estimated based on fraction of accumulated snow within reservoir "area of influence" entering the reservoir during snowmelt months.

(f) Disposal capacity based on maximum estimated land disposal volumes.

(g) Per Bloods Creek Gauging Station

(h) Not used in calculations

# AGENDA ITEM

DATE: AUGUST 2, 2021

TO: BVWD BOARD OF DIRECTORS

FROM: JEFF GOUVEIA, DISTRICT GENERAL MANAGER

RE: FY 2021 - 22 FINAL BUDGET PROPOSAL

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## BACKGROUND & DISCUSSION:

Accompanying this memorandum is a final budget proposal for FY 2021 - 22, reflecting a comparison to the final actual previous fiscal cycle (FY 20 - 21) as well as a projected budget forecast for (3) future fiscal cycles.

This final budget proposal discusses Year 1 of the anticipated renewal of the District's 5-year NPDES cycle and related expenses. The current order expires August 2021 and the budget forecast considers years 1 – 3 of the District's next 5-year NPDES permit expiring in August 2026.

Below is a summary of highlights of the final budget proposal:

### Revenue

#### Residential Revenue

Residential revenue is generally a fixed source of income due to the District's flat rate billing structure. The current rate of new home construction at approximately (1) new home per year adds roughly \$1156 or less than 1% to year-over-year residential revenue. As of this writing, the District has received one application and related capacity, application and inspection charges (\$7570) for a new residential connection at 74 Spring Cliff Road. The District issued a will serve letter for this new connection on March 1, 2021 and construction on this new home initiated in May 2021.

With support from the FY 19-20 mid-cycle 6.2 % inflation-based sewer service rate increase which became effective January 1, 2020 and increased the monthly flat rate residential bill from \$90.37 to \$96.35, the estimated FY 21 - 22 residential revenue is projected to be largely the same as the previous fiscal cycle at approximately **\$630,000**.

#### Commercial Revenue

Commercial revenue is flow based. With the Board's adoption of the FY 19 – 20 mid-cycle 6.2 % sewer service rate increase which also became effective January 1, 2020, commercial customers are now charged \$0.068 per gallon of water (previously \$0.064) metered at the commercial location and sent to the District for treatment and disposal. As billable flow is tied to water use and water use can vary dramatically depending on the seasonal economy of many of the District's commercial customers, commercial revenue to the District remains variable as the Bear Valley economy changes. For FY 20-21, total commercial revenue to the District was \$150,866.

For the majority of the District's commercial customers, invoicing for the proposed budget cycle will be based on water use in the previous fiscal cycle ending June 30. Due to the statewide shelter in place (SIP) order which began in March 2020 and directly impacted commercial water use over the past year, **this final budget proposal contemplates commercial revenue to fall to approximately \$120,000 based on a reduction of -264,220 fewer gallons or – 14 % less water from commercial sources when compared to the previous fiscal cycle.**

To illustrate the magnitude of the impact of the SIP order for metered commercial customers specifically in the Bear Valley village, commercial flows fell – 133 % in August 2020 and – 183 % in September 2020. Consequently,

commercial revenues are projected to fall nearly **-26 %** or **- \$31,142** from the estimated previous fiscal year bolstered only by the District's minimum monthly billing for all commercial customers (\$85.81/month).

In summary, largely as a consequence of reduced commercial water consumption due to COVID19 exacerbated by the broad but temporary use of portable toilets during the pandemic, this final budget projects **total service rate revenue for FY 21-22 to be \$750,000**, down **- 4.12 %** or **- \$30,898** from the actual revenue received during the previous fiscal cycle.

### Expenses

Operating expenses for fiscal year 2021-22 reflect a proposed budget increase of **approximately 4.95 % to \$649,697** over the previous cycle's actual year end expenses. This increase is largely confined to three specific areas including a modest increase in salaries, wages and benefits, a measurable increase in insurance premiums and a conservative estimate for repairs and maintenance.

Below is a summary of the most notable expense areas that impact this final budget projection for FY 21-22:

- Salaries, Wages and Benefits: **Salaries, wages and benefits area projected to increase approximately 4.23 % for FY 21-22** when compared to the final fiscal year end value for this expense area in FY 20-21. The majority of the District's staff have reached Step 5 in their respective 5 % wage steps and are now enjoying only modest annual COLA wage increases of 2.5 %. The District continues to see long term, seasonal staff slowly reduce their seasonal (summer) working hours downward each summer leading to less significant increases to the aggregate year-over-year budget and providing a soft landing for the District as these employees near retirement. However, to be sure, there will come a time in the not too distant future where hiring will be required to replace part time seasonal staff at retirement and the Board should be aware of the likely challenges of finding trained wastewater operators willing to accept part time work and the commensurate budget impact of potentially hiring full time operators. Additionally, approximately (8) hours per week or 160 hours during the summer months have been added to the this budget area to expand and build upon the District's GIS dataset, including asset verification and data maintenance (QA/QC) as well as the collection of assets yet to be entered into the District's GIS system. Meanwhile, the District's expanded collection system maintenance program implemented last fiscal cycle which added approximately six (6) additional weeks of maintenance time to this crew's schedule and has been preserved and renewed in this budget proposal for the upcoming year.
- Insurance: The District's FY 20-21 combined aggregated insurance premiums total approximately \$16,294. After years of aggressive Staff effort to reduce annual premiums from a high of \$23,000 in FY15-16, **insurance expenses for FY 21-22 are expected to rise for the first time in many years by 8.7 % to \$17,862** due to general and anticipated inflationary effects for this expense area.
- Repairs and Maintenance: The 4-year average for repairs and maintenance expenses at the District is \$60,856, with a high of \$80,116 in FY 17-18 to an anticipated low of \$46,610 in FY 20-21. The primary factors affecting the proposed R&M budget include fewer anticipated major repairs as a result of a decade of focused effort to address long term deferred maintenance, fewer expenses related to infrequent surface discharging (streamflow measurements, analyzer maintenance and calibration expenses, etc.) as well as fewer collection system and manhole repairs discovered during cleaning and inspection of the collection system. Based on the historical average, **the FY 21-22 budget maintains a conservative forecast of \$60,000 despite a 63% reduction in spending in this area from the FY19-20 to FY 20-21 fiscal cycle.**

### **Capital Expenditures**

This final budget includes the purchase of the following two (2) new pieces of equipment approved with adoption of the preliminary budget by the Board at its June 2021 meeting:

- 1) A new **Franklin Miller TM8524 (8" x 24") Taskmaster Grinder** to be installed at the District's headworks (aka Main Pump Station). The existing grinder, installed in October 1989, has far exceeded its useful life and has likely not provided sufficient if any grinding of solids for many years. These solids have instead been largely allowed to pass in larger form through the headworks to the District's treatment lagoon adding adversely to more substantial solids loading in the lagoon. The proposed new grinder provides for easier maintenance and replacement of the cutter cartridges, shafts and seals than the existing unit. In addition to properly grinding fecal solids, the Taskmaster will also provide a state of the art solution for grinding non-flushable wipes and other non-organic debris which inevitably enter the District's collection system.

**The cost of the TM8524 including installation is estimated at \$33,000.**

- 2) A new **Verisight Pro 330' Sewer Push Camera** to upgrade the District's current 180' push cam purchased in 2013. At the time the current push cam was purchased, the District had not yet developed the robust collection system maintenance program which exists today. The existing sewer camera was initially secured to help staff troubleshoot and support residential customers experiencing issues with their private laterals and resolve whether the problem was a private lateral or the District's mainline. As the collection maintenance program developed, the existing sewer camera was coopted for CCTV purposes. However, the length of most of the District's collection system pipe segments far exceed the 180' capacity of the 2013 unit (e.g. many segments are 300 – 500 feet) and staff have been unable to inspect the entirety of longer segments even when pushing the older camera from opposite ends. Additionally, the 2013 unit provides decreased performance in the field as the screen brightness has degraded over the years and the camera head shows significant signs of wear providing poorer quality images to the viewing screen for analysis.

**The cost of the Verisight Pro 300' Push Camera including tax and shipping is estimated at \$12,000.**

- 3) Additionally, not included in the preliminary budget presented in June 2021 but as discussed in the previous agenda item, this final budget proposal includes approving the July 21, 2021 change order proposal presented by Stantec and committing an additional \$12,000 to address the compliance concerns surrounding renewal of the District's NPDES permit.

**The cost of the July 21, 2021 Stantec change order is estimated at \$12,000.**

**In summary, total proposed capital expenditures for FY 21-22 are \$57,000.**

### **RECOMMENDATION**

**FY 21-22 net income is anticipated to be \$5,225.**

The conservative budgeting approach employed by staff over the past few years seems to consistently provide for higher than budgeted net income revenue year over year (e.g. year-end FY 20-21 net income is estimated to be \$65,445 vs. \$38,583 budget) and staff believes FY 21-22 will continue this trend.

**FY 21-22 net cash flow is expected to be \$4,802.**

With the exception of FY 19 -20 and the large capital commitment for the treatment lagoon upgrade project, this cash flow estimate is in line with previous cycle positive cash flow estimates and, similar to net income, is

expected to be measurably higher than budget (e.g. year-end FY 20-21 cash flow estimated to be \$101,271 vs. \$79,389 budget).

**Therefore, it is recommended that the Board vote to approve this final FY 21-22 budget proposal and 3-Year forecasted projection as presented.**

**ACTION:**

1. Motion to Accept the final FY 21-22 budget proposal and 3-Year forecast projected budget as presented.

Attachments:

- FY 2021-22 Budget & 3-Year Budget Forecast Projection

Bear Valley Water District Financial Year 2021-22 + 3 Year Budget Forecast									
	ACTUAL FY 20 - 21	% DIFF PREV YR	BUDGET FY 21 - 22	% DIFF PREV YR	BUDGET FY 22 - 23	% DIFF PREV YR	BUDGET FY 23 - 24	% DIFF PREV YR	BUDGET FY 24 - 25
<b>REVENUES</b>									
Residential	630,032		630,000		630,000		630,000		630,000
Commercial	150,866		120,000		150,000		150,000		150,000
<b>Subtotal Operating Revenue</b>	<b>780,898</b>		<b>750,000</b>		<b>780,000</b>		<b>780,000</b>		<b>780,000</b>
<b>EXPENSES</b>									
Salaries and Benefits	378,211		394,897		398,743		407,534		409,834
Director Expenses - Meetings, Elections, Training	2,000		2,000		2,000		2,000		2,000
Operator Education, Training & Certifications	450		1,000		1,000		1,000		1,000
Gas, Diesel, Oil & Filters	2,694		3,000		3,000		3,000		3,000
Insurance	16,294		18,000		19,000		20,000		21,000
Memberships & Conferences	5,241		5,500		5,500		5,500		5,500
Office Expenses & Supplies	9,216		7,500		7,500		7,500		7,500
Field Expenses & Supplies	19,353		20,000		20,000		20,000		20,000
Grooming, Snow Removal & Vehicle Storage	3,268		3,500		3,500		3,500		3,500
General Engineering & Consulting	9,621		5,000		5,000		5,000		5,000
General Legal & Accounting	9,780		10,000		10,000		10,000		10,000
Equipment Rental	778		800		800		800		800
Repairs & Maintenance	46,610		60,000		60,000		60,000		60,000
Laboratory Fees	13,439		12,000		12,000		12,000		12,000
Regulatory Reporting & Compliance Projects	6,242		6,500		6,500		6,500		6,500
Taxes, Fees, Licenses & Assessments	42,985		45,000		45,000		45,000		45,000
Utilities	51,386		55,000		55,000		55,000		55,000
<b>Subtotal Operating Expenses</b>	<b>617,568</b>		<b>649,697</b>		<b>654,543</b>		<b>664,334</b>		<b>667,634</b>
<b>Net Operational Income</b>	<b>163,330</b>		<b>100,303</b>		<b>125,457</b>		<b>115,666</b>		<b>112,366</b>
<b>OTHER REVENUE</b>									
Interest Income - LAIF	1,844		1,500		1,500		1,500		1,500
Late Fees, Penalties & Interest	2,624		2,500		2,500		2,500		2,500
Expense Reimbursements - USFS	13,726		4,805		4,500		4,500		4,500
Expense Reimbursements - Concessionnaire	3,991		3,830		2,500		2,500		2,500
Misc Other Income	10,590		5,200		0		0		0
<b>Subtotal Other Revenue</b>	<b>32,775</b>		<b>17,835</b>		<b>11,000</b>		<b>11,000</b>		<b>11,000</b>
<b>OTHER EXPENSES</b>									
Loan Interest	14,006		12,318		9,683		8,749		6,822
Depreciation	116,623		100,596		91,868		84,653		81,207
Misc Other Expenses	30								
<b>Subtotal Other Expenses</b>	<b>130,659</b>		<b>112,914</b>		<b>101,551</b>		<b>93,402</b>		<b>88,029</b>
<b>Net Other Income</b>	<b>(97,885)</b>		<b>(95,079)</b>		<b>(90,551)</b>		<b>(82,402)</b>		<b>(77,029)</b>
<b>NET INCOME</b>	<b>65,445</b>		<b>5,225</b>		<b>34,906</b>		<b>33,264</b>		<b>35,337</b>
<b>NON-CASH EXPENDITURES (included in net income)</b>									
Depreciation	116,623		100,596		91,868		84,653		81,207
<b>Subtotal Non-Cash Expenses</b>	<b>116,623</b>		<b>100,596</b>		<b>91,868</b>		<b>84,653</b>		<b>81,207</b>
<b>CASH EXPENDITURES (Not Included in net income)</b>									
Capital Improvements / Replacements	(38,466)		(57,000)		(60,000)		(30,000)		(25,000)
Loan Payments - Principal	(42,331)		(44,019)		(41,960)		(47,589)		(49,515)
<b>Subtotal Addl Cash Expenses</b>	<b>(80,797)</b>		<b>(101,019)</b>		<b>(101,960)</b>		<b>(77,589)</b>		<b>(74,515)</b>
<b>NET CASH FLOW</b>	<b>101,271</b>		<b>4,802</b>		<b>24,814</b>		<b>40,328</b>		<b>42,029</b>
<b>Debt/Coverage Ratio - Loan Covenants - 1.25 or Greater</b>	<b>4.301</b>		<b>2.404</b>		<b>3.021</b>		<b>2.478</b>		<b>2.354</b>

# AGENDA ITEM

DATE: AUGUST 2, 2021

TO: BVWD BOARD OF DIRECTORS

FROM: JEFF GOUVEIA, DISTRICT GENERAL MANAGER

RE: MANAGER'S REPORT

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1. Water Balance - Update
  - a. Influent Flows & Effluent Transfers
  - a. Effluent in Storage, Current Storage Capacity & Land / Surface Disposal Update
2. Permit Compliance & Monitoring & Reporting Programs (MRPs) - Update
  - a. WDR MRP - Land Discharge Permit – Compliance & Reporting Update
    - i. Reporting Status Matrix – No Certified Violations, All Reporting Submitted On-Time
  - b. NPDES MRP – Surface Water Discharge Permit – Compliance & Reporting Update
    - i. Reporting Status Matrix – No Certified Violations, All Reporting Submitted On-Time
3. Other
  - a. PGE-SGIP-2020-3656 – WWTF Powerpack Project – Update
  - b. Cal OES Community Power Resiliency Allocation - Update
  - c. District Standard Design Specifications - Update
  - d. BVWD Roster – 2021 Expiration of Terms of Office (Bissell, Boyle, Lundquist)



## Board Meeting 8-2-21

- Influent Flows (MG) – Total of ALL Wastewater Received / % change previous year

<u>April, 2021</u>	<u>April 2020</u>	<u>April 2019</u>
3.481 / 90.1%	3.864 / 73.9%	5.230 / 119.6%
<u>May 2021</u>	<u>May 2020</u>	<u>May 2019</u>
2.204 / 63.1%	3.494 / 68.2%	5.123 / 272.9%
<u>June 2021</u>	<u>June, 2020</u>	<u>June 2019</u>
1.214 / 73.3%	1.656 / 41.2%	4.015 / 332.6%
<u>July 1-18, 2021</u>	<u>July, 2020</u>	<u>July 2019</u>
1.080	1.331 / 67.5%	1.973 / 142.4%

- Transferred to PR (MG) - Volume of Water Moved from Treatment to Storage / % change previous year

<u>April, 2021</u>	<u>April 2020</u>	<u>April 2019</u>
3.902 / 97.9%	3.984 / 68.3%	5.834 / 104.0%
<u>May 2021</u>	<u>May 2020</u>	<u>May 2019</u>
2.465 / 51.1%	4.820 / 97.9%	4.929 / 252.1%
<u>June, 2021</u>	<u>June, 2020</u>	<u>June 2019</u>
1.024 / 42.8%	2.395 / 91.6%	2.614 / 206.8%
<u>July 1-18, 2021</u>	<u>July, 2020</u>	<u>July 2019</u>
.840	1.257 / 53.3%	2.357 / 513.5% (drawdown for TP maint)

NOTE: During November and December 2019 maintenance was being performed on the Treatment Pond.

- Land Application - Annual Totals – MG Applied / % change previous year

<u>5/24 – 7/28, 2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
17.8	30.639 / 158.8%	19.293 / 83.1%	23.215 / 144.6%	16.051 / 30.5%

2021 Land App Began May 24

2020 Land App Began June 2

2019 Land App Began July 12

- Surface Discharge - Effluent Flow Discharge Totals – MG - NO EFFLUENT WAS DISCHARGED IN 2020 or 2021

<u>March 2019</u>	<u>April 2019</u>	<u>May 2019</u>	<u>June 2019</u>	<u>Total 2019 Discharge</u>
0.0	0.0	29.5	26.9	56.5
<u>March 2018</u>	<u>April 2018</u>	<u>May 2018</u>	<u>June 2018</u>	<u>Total 2018 Discharge</u>
0.0	11.9	11.7	0.0	23.6
<u>March 2017</u>	<u>April 2017</u>	<u>May 2017</u>	<u>June 2017</u>	<u>Total 2017 Discharge</u>
15.8	29.9	29.7	16.9	92.3

- Storage Reservoir Elevations and Volumes (based on 10/6/15 pressure chart):

- Empty (minimum pool) = 7063.0' = 0 MG = 0'
- Total Depth (w/2' Freeboard) = 7086.3' = 76.45 MG = 23.3'
- Total Depth (spillway) = 7088.3' = 85.86 MG = 25.3'
- Permitted Full Reservoir (2' Freeboard) = 7086.3' = 76.45 MG = 100%
  - Highest Level 2021 – 5/13/21 = 7073.3' = 25.17 MG = 32.9%
  - Highest Level 2020 – 5/28/20 = 7075.6' = 33.01 MG = 43.2%
  - Highest Level 2019 – 5/1/19 = 7079.8' = 48.68 MG = 63.7%
  - Highest Level 2018 – 4/20/18 = 7078.3' = 42.88 MG = 56.1%
  - Highest Level 2017 – 3/8/17 = 7083.9' = 65.67 MG = 85.9%
  - Highest Level 2016 – 5/26/16 = 7081.9' = 57.16 MG = 74.7%
  - **Current Storage Volume = 7067.7 = 6.70 MG = 8.7% (7/29/2021)**
  - Storage Volume 1 Year Ago = 7070.1 = 15.11 MG = 19.8% (7/30/2020)

- Collection System

- **2021** (as of 7/23/21) Jet 5484' Video 5083'
- **2020:** Jet 17,194', % change previous year: 266%. Video 11,367', % change previous year: 196%
- **2019:** Jet 6,468', % change previous year: 93%. Video 5,800' % change previous year: 249%
- **2018:** Jet 6,990', % change previous year: 230%. Video 2,330', % change previous year: 173%
- **2017** Jet 3030' Video 1350'

**SMR / DMR Reporting****Facility Name:** Bear Valley WWTF**Water Board Office:** Region 5S - Sacramento**Reporting Level:** Level IIPress **F11** to exit full screen**Order Number:** RS-2016-0045**Case Worker:** Mohammad Farhad**All Electronic Date:** 08/01/2016

To review or submit a report, select it from the list below. To change the list of reports, check the status types and/or enter start and end dates.

**Show reports that meet these criteria**

Status:

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- ☒ Past Due - report deadline has passed and report has not been submitted
- ☒ Future - report due date is in the future
- ☒ Withdrawn - report has been withdrawn

Show Report Due Between:  and  **Search results:**[Export to Excel](#) **Show:** Previous  Next

ID	Report Name	Type	Frequency	Reporting Period	Due Date	Status	Date Received	Date Reviewed	Certified Violations	Report	Withdrawal
2477500	<a href="#">July 2021</a>	MONNPDES	Monthly	07/01/2021 - 07/31/2021	09/01/2021	Future			No		
2485547	<a href="#">August 2021</a>	MONNPDES	Monthly	08/01/2021 - 08/31/2021	10/01/2021	Future			No		
2495155	<a href="#">September 2021</a>	MONNPDES	Monthly	09/01/2021 - 09/30/2021	11/01/2021	Future			No		
2290452	<a href="#">2020</a>	MONNPDES	Annual	01/01/2020 - 12/31/2020	02/01/2021	Submitted	01/26/2021		No	<a href="#">Download Report</a>	
2384593	<a href="#">December 2020</a>	MONNPDES	Monthly	12/01/2020 - 12/31/2020	02/01/2021	Submitted	01/20/2021		No	<a href="#">Download Report</a>	
2416786	<a href="#">January 2021</a>	MONNPDES	Monthly	01/01/2021 - 01/31/2021	03/01/2021	Submitted	02/18/2021		No	<a href="#">Download Report</a>	
2416787	<a href="#">February 2021</a>	MONNPDES	Monthly	02/01/2021 - 02/28/2021	04/01/2021	Submitted	03/22/2021		No	<a href="#">Download Report</a>	
2416788	<a href="#">March 2021</a>	MONNPDES	Monthly	03/01/2021 - 03/31/2021	05/01/2021	Submitted	04/19/2021		No	<a href="#">Download Report</a>	
2429412	<a href="#">April 2021</a>	MONNPDES	Monthly	04/01/2021 - 04/30/2021	06/01/2021	Submitted	05/17/2021		No	<a href="#">Download Report</a>	
2441061	<a href="#">May 2021</a>	MONNPDES	Monthly	05/01/2021 - 05/31/2021	07/01/2021	Submitted	06/21/2021		No	<a href="#">Download Report</a>	
2465241	<a href="#">June 2021</a>	MONNPDES	Monthly	06/01/2021 - 06/30/2021	08/01/2021	Submitted	07/20/2021		No	<a href="#">Download Report</a>	



## SMR / DMR Reporting

Facility Name: Bear Valley WWTF

Water Board Office: Region 5S - Sacramento

Reporting Level: Level I

Order Number: 5-01-208

Case Worker: Kenny Croyle

Press **F11** to exit full screen

To review or submit a report, select it from the list below. To change the list of reports, check the status types and/or enter start and end dates.

### Show reports that meet these criteria

Status:

- ☒ Submitted - report was already submitted to water board
- ☒ In-Progress - report has been edited but not submitted
- ☒ Past Due - report deadline has passed and report has not been submitted
- ☒ Future - report due date is in the future
- ☒ Withdrawn - report has been withdrawn

Show Report Due Between:  and  

### Search results:

[Export to Excel](#) Show: [Previous](#)  [Next](#)

ID	Report Name	Type	Frequency	Reporting Period	Due Date	Status	Date Received	Date Reviewed	Certified Violations
2413412	Q1 2021 (3 times per year)	GR_WATER	Quarterly	04/01/2021 - 07/31/2021	09/01/2021	Future			No
2477286	July 2021	MONRPT	Monthly	07/01/2021 - 07/31/2021	09/01/2021	Future			No
2485306	August 2021	MONRPT	Monthly	08/01/2021 - 08/31/2021	10/01/2021	Future			No
2494375	September 2021	MONRPT	Monthly	09/01/2021 - 09/30/2021	11/01/2021	Future			No
2477287	Q2 2021 (3 times per year)	GR_WATER	Quarterly	08/01/2021 - 09/30/2021	11/01/2021	Future			No
2384385	December 2020	MONRPT	Monthly	12/01/2020 - 12/31/2020	02/01/2021	Submitted	01/20/2021		No
2286018	2020	MONRPT	Annual	01/01/2020 - 12/31/2020	02/01/2021	Submitted	01/26/2021		No
2353429	Q3 2020 (3 times per year)	GR_WATER	Quarterly	10/01/2020 - 12/31/2020	02/01/2021	Submitted	12/08/2020		No
2413408	January 2021	MONRPT	Monthly	01/01/2021 - 01/31/2021	03/01/2021	Submitted	02/18/2021		No
2413409	February 2021	MONRPT	Monthly	02/01/2021 - 02/28/2021	04/01/2021	Submitted	03/22/2021		No
2413410	March 2021	MONRPT	Monthly	03/01/2021 - 03/31/2021	05/01/2021	Submitted	04/19/2021		No
2429206	April 2021	MONRPT	Monthly	04/01/2021 - 04/30/2021	06/01/2021	Submitted	05/17/2021		No
2440854	May 2021	MONRPT	Monthly	05/01/2021 - 05/31/2021	07/01/2021	Submitted	06/21/2021		No
2464587	June 2021	MONRPT	Monthly	06/01/2021 - 06/30/2021	08/01/2021	Submitted	07/20/2021		No



July 12, 2021

Jeff Gouveia  
General Manager  
Bear Valley Water District  
P.O. Box 5027  
Bear Valley, CA 95223-5027

SUBJECT: **PROGRESS AND EXPENDITURE OF FUNDS REPORT**  
Fiscal Year (FY) 2020 Community Power Resiliency Allocation  
Period of Performance: July 1, 2020, to March 31, 2022

Dear Mr. Gouveia:

You were selected to receive funding through the California Governor's Office of Emergency Services (Cal OES), Community Power Resiliency Program.

As a condition of funding, Subrecipients are required to provide a report on the expenditures of the funds. The report is due no later than **November 30, 2021**. This report shall identify how the funds have been used, including identifying each project or activity undertaken, local entity that undertook the project or activity, the amount of funding provided to the project or activity, and a description of each project or activity. The report shall also identify the specific outcomes achieved by each project or activity, including whether the project or activity was completed and whether it was used during power shutoff events.

The Progress and Expenditure of Funds Report has been sent to you electronically. Please sign and return it to [PSPS@CalOES.ca.gov](mailto:PSPS@CalOES.ca.gov) by the due date listed above and keep a copy for your records.



3650 SCHRIEVER AVENUE, MATHER, CA 95655  
(916) 845-8513 TELEPHONE  
[www.CalOES.ca.gov](http://www.CalOES.ca.gov)

Additionally, the Subrecipient is subject to the following requirements:

- Special Districts are encouraged to collaborate with their county to support critical infrastructure and resiliency with a particular focus on public safety, vulnerable communities, and individuals with access and functional needs.
- Must ensure they and their principals are not presently debarred, suspended, proposed for debarment, or declared ineligible.
- Must coordinate with their county planning agencies to ensure the project is in compliance with the California Environmental Quality Act (CEQA) Public Resource Code, Section 21000 *et seq.*
- Comply with the California Public Records Act, Government Code Section 6250 *et seq.*
- Must procure goods and services in compliance with applicable federal laws, ordinances, rules, regulations, and policies.

For further assistance and questions, please email [PSPS@CalOES.ca.gov](mailto:PSPS@CalOES.ca.gov).

Sincerely,



GINA BUCCIERI-HARRINGTON  
Assistant Director



**Fiscal Year 2020-21 (FY20) Community Power Resiliency (CPR) Program  
Allocation to Special Districts  
Progress and Expenditure of Funds Report**

**Instructions:**

1. Complete all fields of the Progress and Expenditure of Funds Report. Failure to complete all fields will result in additional follow up from Cal OES.
2. Fields on this form are fixed in size and have a character count. If a response is too long to fit in the space provided, the additional information may be included on a Microsoft Word document using Century Gothic, size 12 font. Include the Word document as an attachment when submitting the completed Progress and Expenditure of Funds Report.
3. The button labeled "Add Additional Project(s)" can be used to report up to twelve additional projects. Additional project pages can be deleted with the button labeled "Delete this Project".
4. When deleting project pages, the projects must be deleted in descending numerical order. Failure to delete projects in descending numerical order may cause errors in the functionality of the form. To avoid any issues, only add additional projects as needed.
5. For additional assistance or questions regarding this form, contact [PSPS@caloes.ca.gov](mailto:PSPS@caloes.ca.gov).

**Fiscal Year 2020-21 (FY20) Community Power Resiliency (CPR) Program  
Allocation to Special Districts  
Progress and Expenditure of Funds Report**

<b>Subrecipient:</b>		
<b>Contact Information:</b>	<b>Name:</b> <b>Telephone Number:</b> <b>Email:</b>	
<b>Total FY20 Award Amount:</b>	\$	
<b>Period of Performance:</b>	<b>Start Date</b>	<b>End Date</b>
	7/1/2020	3/31/2022
<b>Reporting Period:</b>	<b>July 1, 2020 – October 31, 2021</b>	
<b>Will all funds be expended by the period of performance end date?</b>		

Your signature is required on this Progress and Expenditure of Funds Report. Please sign and return to [PSPS@CalOES.ca.gov](mailto:PSPS@CalOES.ca.gov) by November 30, 2021, and keep a copy for your records. For further assistance, please email [PSPS@CalOES.ca.gov](mailto:PSPS@CalOES.ca.gov).

**The undersigned is a duly appointed Authorized Agent and certifies that the submitted activity/project statuses are true and correct.**

Subrecipient: \_\_\_\_\_

Signature of Authorized Agent: \_\_\_\_\_

Printed Name of Authorized Agent: \_\_\_\_\_

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

**Project Number 1**

<b>Project 1 Title:</b>	
<b>Brief Description:</b>	
<b>Project Type:</b>	
<b>Project Status:</b>	
<b>If project status is complete, was it used during a power shutoff event?</b>	
<b>Local entity undertaking project:</b>	
<b>Total budgeted cost for this project:</b>	\$
<b>Amount of FY20 CPR funding provided to this project:</b>	\$
<b>If additional funding will be used outside the FY20 CPR allocation, please state the amount:</b>	\$
<b>Amount of FY20 CPR funds spent for this project to date:</b>	\$

→ Continue to the next page to finish reporting for Project 1.



## **Project 1 Summary**

Describe the specific outcomes achieved by Project 1.

Describe what has been completed as outlined in the scope of the original plan for Project 1.

→ Continue to the next page to finish reporting for Project 1.

**Project 1 Summary (continued)**

The period of performance ends on March 31, 2022. Describe what still needs to be completed before this date.

Explanation for Not Started, Delayed, or Cancelled Status:

(Additional Pages will Appear Below)

Profit Loss Budget Previous Year Comparison June 2021 vs. June 2020

	Prior Year July 1 - June 30	FY 19-20 Budget	FY 19-20 Budget	Current Year July 1 - June 30	FY 20-21 Budget	FY 20-21 Budget	Variance Explanation
<b>REVENUES</b>							
Residential	610,114	586,000	104%	630,032	625,000	101%	
Commercial	169,208	165,000	103%	150,866	150,000	101%	
<b>Subtotal Operating Revenue</b>	<b>779,322</b>	<b>751,000</b>	<b>104%</b>	<b>780,898</b>	<b>775,000</b>	<b>101%</b>	Revenue Target 100%
<b>EXPENSES</b>							
Salaries & Benefits	361,127	360,225	100%	378,211	374,414	101%	
Director Expenses	1869	2,000	93%	2000	2,000	100%	
Operator Training & Certs	364	1,500	24%	450	1,500	30%	
Gas, Diesel, Oil & Filters	3,198	3,000	107%	2694	3,500	77%	
Insurance	19,241	23,000	84%	16,294	16,000	102%	
Memberships & Conferences	6,350	7,000	91%	5,241	4,600	114%	
Office Expenses & Supplies	10,068	10,000	101%	9,216	10,000	92%	
Field Expenses & Supplies	26,109	20,000	131%	19,353	25,000	77%	
Grooming, Snow Removal & Vehicle Storage	2,636	3,500	75%	3268	3,500	93%	
Engineering & Consulting	315	5,000	6%	9621	5,000	192%	Res Gate Valve, Design Stds
Legal & Accounting	15,515	10,000	155%	9780	10,000	98%	
Equipment Rental	226	600	38%	778	800	97%	
Repairs & Maintenance	73,607	60,000	123%	46,610	60,000	78%	
Laboratory Fees	12,727	15,000	85%	13,439	15,000	90%	
Regulatory Reporting & Comp. Projects	6,330	6,700	94%	6242	7,000	89%	
Taxes, Fees, Licenses & Assessments	40,438	39,000	104%	42,985	45,000	96%	
Utilities	63,514	60,000	106%	51,386	60,000	86%	
<b>Subtotal Operating Expenses</b>	<b>643,634</b>	<b>626,525</b>	<b>103%</b>	<b>617,567</b>	<b>643,314</b>	<b>96%</b>	Expense Target - 100%
<b>Net Operational Income</b>	<b>135,688</b>	<b>124,475</b>	<b>109%</b>	<b>163,331</b>	<b>131,686</b>	<b>124%</b>	
<b>OTHER REVENUE</b>							
Interest Income - LAIF	6,502	7,000	93%	1,844	6,000	31%	RR 2.29 % > 0.63%
Late Fee, Penalties and Interest	7,295	7,000	104%	2,624	2,000	131%	
Expense Reimbursements - USFS Campground	6,685	3,538	189%	13,726	8,375	164%	USFS Paid Conc EXP
Expense Reimbursements - Concessionnaire	2,740	5,887	47%	3,991	9,665	41%	
Misc Other Income	547	0		10,590	0	UBD	Capacity Charge
<b>Subtotal Other Revenue</b>	<b>23,769</b>	<b>23,425</b>	<b>101%</b>	<b>32,774</b>	<b>26,040</b>	<b>126%</b>	
<b>OTHER EXPENSES</b>							
Loan Interest	15,675	15,680	100%	14,006	12,318	114%	
Depreciation	116,622	114,223	102%	116,623	106,825	109%	
Mics Expense	429	0	UBD	30	0	UBD	
<b>Subtotal Other Expenses</b>	<b>132,726</b>	<b>129,903</b>	<b>102%</b>	<b>130,659</b>	<b>119,143</b>	<b>110%</b>	
<b>Net Other Income</b>	<b>(108,956)</b>	<b>(106,478)</b>	<b>102%</b>	<b>(97,885)</b>	<b>(93,103)</b>	<b>105%</b>	
<b>NET INCOME</b>	<b>26,731</b>	<b>17,997</b>	<b>149%</b>	<b>65,446</b>	<b>38,583</b>	<b>170%</b>	
<b>NON CASH EXPENDITURES (included in net income)</b>							
Depreciation	116,622	114,223	48%	116,623	106,825	109%	
<b>Subtotal Non-Cash Expenses</b>	<b>116,622</b>	<b>114,223</b>	<b>48%</b>	<b>116,623</b>	<b>106,825</b>	<b>109%</b>	
<b>CASH EXPENDITURES ( Not Included in net income)</b>							
Capital Improvements / Replacements	(210,581)	(189,053)	94%	(38,466)	(22,000)	175%	Battery Project - Legal + Eng
Loan Payments - Principal	(40,663)	(40,657)	100%	(42,331)	(44,019)	96%	
<b>Subtotal Addl Cash Expenses</b>	<b>(251,244)</b>	<b>(229,710)</b>	<b>86%</b>	<b>(80,797)</b>	<b>(66,019)</b>	<b>122%</b>	
<b>NET CASH FLOW</b>	<b>-107,891</b>	<b>-97,490</b>	<b>111%</b>	<b>101,272</b>	<b>79,389</b>	<b>128%</b>	

**BVWD**  
**Balance Sheet Prev Year Comparison**  
**As of June 30, 2021**

	<u>Jun 30, 21</u>	<u>Jun 30, 20</u>	<u>\$ Change</u>	<u>% Change</u>
<b>ASSETS</b>				
<b>Current Assets</b>				
<b>Checking/Savings</b>				
11015 · F&M Bank	757,781.96	342,204.13	415,577.83	121.44%
11018 · LAIF	319,641.98	317,854.08	1,787.90	0.56%
11020 · Petty Cash	50.00	50.00		
11025 · Capital Facilities Fund	29,026.00	21,656.00	7,370.00	34.03%
<b>Total Checking/Savings</b>	<b>1,106,499.94</b>	<b>681,764.21</b>	<b>424,735.73</b>	<b>62.3%</b>
<b>Accounts Receivable</b>				
11050 · Accounts Receivable	29,047.81	35,104.58	-6,056.77	-17.25%
<b>Total Accounts Receivable</b>	<b>29,047.81</b>	<b>35,104.58</b>	<b>-6,056.77</b>	<b>-17.25%</b>
<b>Other Current Assets</b>				
11055 · Accounts Receivable-Tax Roll	8,783.32	16,394.92	-7,611.60	-46.43%
11140 · Prepaid Insurance	9,171.66	8,445.84	725.82	8.59%
11170 · Prepaid Dam Fees	13,548.00	13,548.00		
<b>Total Other Current Assets</b>	<b>31,502.98</b>	<b>38,388.76</b>	<b>-6,885.78</b>	<b>-17.94%</b>
<b>Total Current Assets</b>	<b>1,167,050.73</b>	<b>755,257.55</b>	<b>411,793.18</b>	<b>54.52%</b>
<b>Fixed Assets</b>				
12010 · Land	25,805.16	25,805.16		
12020 · SbSrfLine	1,196,893.29	1,196,893.29		
12040 · Col Facilities	485,584.50	485,584.50		
12041 · LA Facilities	166,428.79	166,428.79		
12050 · TRT Facilities	1,352,893.09	1,352,893.09		
12060 · DSP Facilities	1,264,402.01	1,264,402.01		
12080 · P & A (Plant & Admin)Facilities	482,118.91	482,118.91		
12100 · Accumulated Depreciation	-2,908,145.00	-2,791,522.00	-116,623.00	-4.18%
14030 · Work in Progress				
14030.0 · W.I.P. - GIS Consulting Support	4,722.05	4,722.05		
16530 · Hydro Jetter	11,463.45		11,463.45	100.0%
16545 · Transfer Flow Meter	5,943.27	5,943.27		
16565 · FY20/21 - NPDES PERMIT (5 YR.)	26,855.00	23,104.00	3,751.00	16.24%
16580 · SGIP-Solar Backup Battery&Cover	24,551.20		24,551.20	100.0%
<b>Total 14030 · Work in Progress</b>	<b>73,534.97</b>	<b>33,769.32</b>	<b>39,765.65</b>	<b>117.76%</b>
<b>Total Fixed Assets</b>	<b>2,139,515.72</b>	<b>2,216,373.07</b>	<b>-76,857.35</b>	<b>-3.47%</b>
<b>TOTAL ASSETS</b>	<b><u>3,306,566.45</u></b>	<b><u>2,971,630.62</u></b>	<b><u>334,935.83</u></b>	<b><u>11.27%</u></b>
<b>LIABILITIES &amp; EQUITY</b>				
<b>Liabilities</b>				
<b>Current Liabilities</b>				
<b>Accounts Payable</b>				
21021 · Accounts Payable	20,447.14	13,083.79	7,363.35	56.28%
<b>Total Accounts Payable</b>	<b>20,447.14</b>	<b>13,083.79</b>	<b>7,363.35</b>	<b>56.28%</b>
<b>Other Current Liabilities</b>				
21030 · Other Payable		1,890.28	-1,890.28	-100.0%
21040 · Prepaid Revenue	57,982.98	68,638.59	-10,655.61	-15.52%
21090 · Payroll Liabilities	31,147.25	16,635.85	14,511.40	87.23%

**BVWD**  
**Balance Sheet Prev Year Comparison**  
**As of June 30, 2021**

	<u>Jun 30, 21</u>	<u>Jun 30, 20</u>	<u>\$ Change</u>	<u>% Change</u>
2110 · Direct Deposit Liabilities	-8.18	-8.18		
22015 · Cal OES Unearned Income	300,000.00		300,000.00	100.0%
22021 · Accrued Vacation	19,536.04	17,043.95	2,492.09	14.62%
<b>Total Other Current Liabilities</b>	<u>408,658.09</u>	<u>104,200.49</u>	<u>304,457.60</u>	<u>292.18%</u>
<b>Total Current Liabilities</b>	<u>429,105.23</u>	<u>117,284.28</u>	<u>311,820.95</u>	<u>265.87%</u>
<b>Long Term Liabilities</b>				
26025 · F&M Bank Loan	333,449.26	375,780.51	-42,331.25	-11.27%
<b>Total Long Term Liabilities</b>	<u>333,449.26</u>	<u>375,780.51</u>	<u>-42,331.25</u>	<u>-11.27%</u>
<b>Total Liabilities</b>	<u>762,554.49</u>	<u>493,064.79</u>	<u>269,489.70</u>	<u>54.66%</u>
<b>Equity</b>				
29000 · Retained Earnings	1,881,909.83	1,855,178.28	26,731.55	1.44%
29100 · O & M Emergency Reserve Fund	150,000.00	150,000.00		
29200 · CIP Reserve Fund	425,000.00	425,000.00		
29300 · Capacity Fee Reserve Fund	21,656.00	21,656.00		
<b>Net Income</b>	<u>65,446.13</u>	<u>26,731.55</u>	<u>38,714.58</u>	<u>144.83%</u>
<b>Total Equity</b>	<u>2,544,011.96</u>	<u>2,478,565.83</u>	<u>65,446.13</u>	<u>2.64%</u>
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<u><u>3,306,566.45</u></u>	<u><u>2,971,630.62</u></u>	<u><u>334,935.83</u></u>	<u><u>11.27%</u></u>

**BVWD**  
**A/P Aging Summary**  
As of June 30, 2021

	Prepays June 2021	Current		1 - 30	31 - 60	61 - 90	> 90		TOTAL	Description
	Alpine County Public Health	820.00							820.00	CUPA - Businees Plans Fee, State Oversight, CalARP, CalARP
	Arnold Auto Supply	68.61							0.00	Auto Parts
	A.T.&T.	58.85							58.85	U-Verse for Main Office
	A.T.&T.	218.95							218.95	Telephone for Main Office
	Card Services	1,067.42							1,067.42	Office, Field Supplies, Telephone
	CVCWA	125.00							125.00	Membership Fees
	Davis	289.05							289.05	Refund for Property Sold
	E.D.D.	159.34							159.34	State Payroll Taxes
	E.D.D.	609.12							609.12	State Payroll Taxes
	E.D.D.	170.43							170.43	State Payroll Taxes
	E.D.D.	558.43							558.43	State Payroll Taxes
	F & M Bank	4,694.80							4,694.80	Principal & Interest on Loan
	Hach	332.71							332.71	Lab Supplies
	I.R.S.	3,392.02							3,392.02	Federal Payroll Taxes
	I.R.S.	3,500.20							3,500.20	Federal Payroll Taxes
	Lake Alpine Water Company	170.73							170.73	Water for Main Office
	P.G.&E.	548.74							548.74	Electricity for June 2019
	Petty Cash	15.75							15.75	Office and Postage Supplies
	SDRMA	2,053.82							2,053.82	Employee Health Insurance
	SDRMA	685.53							685.53	Dental, Vision, LTD, Life Insurance
	Vantage Transfer	351.54							351.54	Employee Retirement Benefits
	Vantage Transfer	1,145.96							1,145.96	Employee Retirement Benefits
	Vantage Transfer	351.20							351.20	Employee Retirement Benefits
	Vantage Transfer	1,203.77							1,203.77	Employee Retirement Benefits
	The Zenith	833.00							833.00	Workers Compensation Insurance
	<b>TOTAL</b>	22,536.36							22,536.36	

	Accounts Payable June 2021	Current		1 - 30	31 - 60	61 - 90	> 90		TOTAL	Description
	Alpha Analytical Laboratories Inc.			1,930.00					1,930.00	Laboratory Analysis
	Alpine County Public Works			672.70					672.70	Diesel, & Regular Fuel
	Aqua Sierra Controls, Inc.			1,021.96					1,021.96	Repair & Maintenance - Collection

**BVWD**  
**A/P Aging Summary**  
As of June 30, 2021

	Accounts Payable June 2021	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL	Description
Arnold Auto Supply Inc.			37.54				37.54	Auto Parts
Arnold Tires			471.75				471.75	Tires
AT&T Business Service 2				-12.72			-12.72	Refund for Disconnected Parts
EBBETTS PASS GAS CO. Inc.			1,363.09				1,363.09	Propane for Bee Gulch, Lake Alpine Boat Ramp, Main Office
Ebbetts Pass Lumber Co. Inc.			124.33				124.33	Field Supplies
Eclipse Mapping & GIS	192.30						192.30	Aluminim Thumb Release Tripod Legs
El Dorado Septic Service, Inc.			134.06				134.06	Porta Potty Rentals
Gateway Press Inc.			602.55				602.55	Envelopes for April & July Invoicing
Mike Smith Engineering, Inc.			1,875.00				1,875.00	Phase II Tesla Battery Roof Cover Construction
Neumiller and Beardslee			1,300.00				1,300.00	Legal Fee
Smartcover Systems	2,886.00						2,886.00	SmartCover Warranties/Utilities Main Pump Station, LA Boat Ramp, Bee Gulch
Thatcher Company of California			4,756.58				4,756.58	Chlorine
Weber Ghio and Associates, Inc			3,092.00				3,092.00	General Engineering
<b>TOTAL</b>	<b>3,078.30</b>		<b>17,381.56</b>	<b>-12.72</b>			<b>20,447.14</b>	

## BVWD A/R Aging Summary As of June 30, 2021

	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL
CS043			28.91	289.05	140.11	458.07
CM091			257.43		264.36	521.79
BV082				289.05	278.10	567.15
CS006			28.91	289.05	635.92	953.88
OS416			28.91	347.96	635.92	1,012.79
BV175			28.91	289.05	695.58	1,013.54
LA023			28.91	289.05	722.65	1,040.61
CS036			28.91	289.05	731.81	1,049.77
CM190					2,420.10	2,420.10
Aggregate Prepay	57,750.01					57,750.01
TOTAL	<u>56,832.60</u>	<u>1,176.92</u>	<u>1,102.18</u>	<u>16,282.04</u>	<u>-46,345.93</u>	<u>29,047.81</u>
TOTAL CREDITS	(917.41)	(395.32)	(914.90)	(1,468.55)	(54,053.83)	(57,750.01)
TOTAL DEBITS	57,750.01	1,572.24	2,017.08	17,750.59	8,707.90	28,702.20
TOTAL	<u>56,832.60</u>	<u>1,176.92</u>	<u>1,102.18</u>	<u>16,282.04</u>	<u>-45,345.93</u>	<u>(29,047.81)</u>

## BVWD

## A/R Aging Summary As of June 30, 2020

	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL
Aggregate Prepay	68,405.62					68,405.62
TOTAL	<u>63,478.93</u>	<u>796.39</u>	<u>-419.91</u>	<u>24,922.08</u>	<u>-53,672.91</u>	<u>35,104.58</u>
TOTAL CREDITS	(5,255.55)	(608.16)	-1,191.92	-21.80	-61,306.73	-68,384.16
TOTAL DEBITS	68,734.48	1404.55	772.01	24,943.88	7,633.82	103,488.74
TOTAL	<u>63,478.93</u>	<u>796.39</u>	<u>-419.91</u>	<u>24,922.08</u>	<u>-53,672.91</u>	<u>35,104.58</u>