

BEAR VALLEY WATER DISTRICT BOARD MEETING

January 22, 2018 - 9 A.M.

Conference Room

441 Creekside Drive, Bear Valley, CA 95223 Call- In Info: 605-475-5920 Access Code: 475-0045

DECLARATION OF A QUORUM

James Bissell, President - Stefaniya Becking, Vice President - John Boyle, Treasurer - Ken Brown, Secretary Gunnar Thordarson, Member

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. Mandatory 2-Year Ethics Training (AB 1234) District Legal Counsel Dan Schroeder
- 2. Capacity Charges (Buy-In Fee) District Engineer Gary Ghio Discussion and Possible Action Item
- 3. Retirement Plan Management Services Discussion and Possible Action Item
- Operations Report General Manager
- 5. Financial Report General Manager
 - 5.1 P&L and Balance Sheet Reports Discussion and Possible Action Item
 - 5.2 Accounts Payable Report Discussion and Possible Action Item
 - 5.3 A/R & Aging Reports Discussion
- 6. The Board will consider adoption of the October 23, 2017 Board Meeting minutes
- 7. Board Member Reports

Materials related to any item on this Agenda are available for public inspection in the District Office at 441 Creekside Drive, Bear Valley, CA 95223 during normal business hours. Information on materials in the agenda is also available on the Bear Valley Water District website at http://www.bearvalleywater.org, subject to staff's ability to post the documents before the meeting. Any material provided to the legislative body at the meeting by agency staff or a member of the legislative body will be available at the public meeting, documents provided by others will be available right after the meeting.

This agenda shall be made available upon request in alternative formats to persons with a disability, as required by the Americans with Disabilities Act of 1990 (42USC, #12132) and the Ralph M. Brown Act, CA Government Code # 54954.2.

Any persons requesting a disability related modification or accommodation in order to participate in the meeting should contact Judi Silber at 209-753-2112, during regular business hours, at least 72 hours prior to the meetings. All regular meetings are held on the third Monday of the month at 9:00 A.M.



AGENDA ITEM

DATE: JANUARY 22, 2018

TO: BVWD BOARD OF DIRECTORS

FROM: JEFF GOUVEIA, DISTRICT GENERAL MANAGER
RE: DISTRICT CAPACITY AND BUY-IN FEE CALCULATION

BACKGROUND:

The District Engineer's 2017 water balance coupled with completion of various capital projects since the last revision necessitates a revised capacity charge. Yet, the absence of a clear historical approach to determining the cost basis of the District's assets highlights the need to standardize the approach to determining the actual value of District assets.

While undertaking the latest effort to revise the capacity charge ("buy-in" fee) for new connections to the wastewater system, staff reviewed the history behind previous capacity charge determinations. Since 1972, District records indicate the capacity charge has been reviewed and revised approximately 20 times. However, the historical record for these revisions does not appear to indicate nor establish the methodology behind the determination of the cost basis used to calculate the value of the District's collection, treatment and disposal systems.

Moreover, the most recent revisions to the capacity charge, including Ordinance No. 68 (2006) which established a charge of \$15,740 and Ordinance No. 71 (2015) which reduced the fee to \$5414, established these charges based on assumptions of proposed project costs or estimates for projects under review. In many cases, some of these projects were never initiated and in other cases the projects came in significantly under the estimate used as a basis for past capacity charges.

Following discussion and careful consideration of the issue, the General Manager and District Engineer decided the District's depreciation schedule provides the most accurate and defensible historical record of actual costs of the District's collection, treatment and disposal systems. The depreciation schedule was established by the District's independent auditor is and is updated annually to reflect completed capital expenditures that meet the District's capitalization policy.

As further explained in the District Engineer's January 9, 2018 memorandum, the District's depreciation scheduled has been utilized to inform the recommendation for revising the capacity charge. The schedule has been updated to reflect all items currently owned by the District, the date each item was purchased and the original cost of the item. These costs were then escalated to December 2017 costs using the Engineering News Record (ENR) 20 City Construction Cost Index.

Based upon this analysis, the total adjusted value of the District's collection, treatment and disposal systems in December 2017 dollars is approximately \$13,605,000. This figure represents all projects completed to date and does not include any proposed projects nor any erroneous estimates for projects previously completed.

RECOMMENDATION:

In the interest of establishing a revised capacity charge in 2018 which is both defensible and based in true costs, not estimates, it is recommended the Board accept the District Engineer's January 9, 2018 memorandum and thereby accept the underlying approach to establishing the cost basis through an adjustment of the depreciation schedule.

BEAR VALLEY WATER DISTRICT

MEMORANDUM

TO BOARD OF DIRECTORS

FROM GARY S. GHIO, DISTRICT ENGINEER 650

RE DISTRICT CAPACITY AND BUY-IN FEE CALCULATION

UPDATE

DATE January 9, 2018

In 2014 the District adopted a buy-in fee to be charged to new customers based upon a District capacity of 245 additional EDUs along with a total cost of District completed improvements determined through the Eco-Logic 2006 Phase 1 Tertiary Facility Plan combined with the cost of improvements which were completed since the Plan was created. Attached to this memorandum is a copy of a memorandum to the Board of Directors dated November 20, 2014 which provides the basis for the current buy-in fee of \$5,414. (See pages 4 and 5)

When the buy-in fee was adopted in 2014 there were still several uncertainties associated with the District's potential ability to discharge into Bloods Creek; primarily the limited flow data which was available for Bloods Creek at that time combined with the fact that the District had not done any type of discharge previously to verify the adequacy of the discharge system.

Subsequent to this, the District received a new NPDES permit which removed some of the requirements which limited future District capacity to 245 additional EDUs. The primary limitation contained in the previous NPDES permit was the requirement that the polishing pond reach the two-thirds full level prior to discharge. This requirement was removed in the current, adopted NPDES permit and in June of 2016 the water balances were updated to reflect the potential change in NPDES permit. The result of this analysis indicated an increase in the District's capacity to 1,196 additional EDUs assuming no infiltration associated with said EDUs. Although this determination was made in June 2016, it was recommended to the Board not to modify District capacity due to the issues associated with lack of information on Bloods Creek flow. I have also attached a copy of the June 7, 2016 memorandum to the Board of Directors wherein these items were discussed. (See pages 6 - 9)

As the Board of Directors is aware, the winter of 2017/2018 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 period. In addition, this successful discharge once again provides the District the opportunity to update its 1 in 100 year water balance to verify the assumptions, limitations and capacity determinations which were utilized in previous water balances.

2017 WATER BALANCE UPDATE

The following table presents a comparison of the total precipitation and snow water content projected in the 1 in 100 year water balances as well what occurred during the 2010/2011, 2015/2016, and 2017/2018 precipitation seasons.

	1 IN 100	2010/2011	2015/2016	2017/2018
Total Precipitation (In Inches)	83.00	84.73	54.62	90.91
Snow Water Content (In Inches)	60.00	60.82	34.56	43.32

As can be seen by the above comparisons of total precipitation and snow water content for 2010/2011 and 2017/2018, both storm seasons exceeded the 1 in 100 total precipitation amount, but the snow water content was significantly lower in 2017/2018 as compared to 2010/2011.

Attached to this memorandum is the 2017 water balance update with actual flows/precipitation which was calibrated based upon actual storage levels encountered for November through June. (See page 10) As can be seen by the 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 balance.

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 exists near Bear Valley which has this data, the previous water balances (2011 and 2016) and capacity determinations were based on the monthly distribution of precipitation that was experienced in 2011 which was the last year of 1 in 100 year total precipitation exceedance at that time. The 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 2017 1 in 100 year water balance projections which are attached to this memorandum (See pages 11-12) were performed utilizing both precipitation patterns reduced down to 1 in 100 year levels. This analysis was performed to ensure the water balances' basis is the worst case precipitation level and pattern based upon available data.

In comparing the resulting two 2017 spreadsheets, the 2017 precipitation pattern would have been a worst year in terms of volumes as compared to 2010/2011 but not of such significance that it would alter the capacity determination from 2016 of an additional 1,196 EDUs. Based upon the results of this analysis, combined with a much higher level of confidence on the ability of the District to discharge the required volumes into Bloods Creek, indicates the Board of Directors could increase District capacity to an additional 1,196 EDUs over existing connections with confidence.

BUY-IN FEE UPDATE

As any change in adopted District capacity correlates directly to the buy-in fee which is charged to new development, District staff has re-examined the existing number of connections (EDUs) as well as actual costs of the District's collection and treatment systems. Attached to this memorandum is a summary of the existing number of connections as of January 5, 2018 broken down by residential and commercial developments. (See page 13.) In addition, this table provides information on recent flows from not only the mountain but from the Forest Service and Lake Alpine Resort which were previously lacking. As can be seen from this table, the total number of EDUs currently connected to the District's system is 650. Combining the current number of connected EDUs (650) with additional District capacity (1,196) yields a total District capacity of 1,846 EDUs.

In order to verify the actual costs of the District's collection and treatment systems, the District's depreciation schedule was updated to reflect all items currently owned by the District, the date purchased, and the original cost of the item. These costs were then escalated to December 2017 costs using the ENR 20 City Construction Cost Index. Based upon this analysis, the total value of the District's collection and treatment systems in December 2017 dollars would be approximately \$13,605,000. See attached depreciation schedule for breakdown of items, date purchased, original and escalated costs (pages 14-16).

The following presents the calculation for the buy-in fee:

Cost of completed improvements = \$13,605,000 Existing plus Additional Capacity EDUs = 1846 Buy-in Fee = \$13,605,000 / 1846 = \$7,370 per EDU

Based upon the analysis of costs, 2017 Water Balance update, and increased confidence in the level of Bloods Creek flows and corresponding ablity of the District to discharge required volumes it is recommended the Board of Directors adopt the District capacity as 1,196 additional EDUs and revised the Buy-in Fee amount to \$7,370/EDU.

I will be present at the January 22 Board meeting should the Board have questions on any of the items contained herein.

BEAR VALLEY WATER DISTRICT MEMORANDUM

TO BOAR

BOARD OF DIRECTORS

FROM

GARY GHIO, DISTRICT ENGINEER

RE

BUY-IN FEE CALCULATION

DATE

NOVEMEBER 20, 2014

Based upon discussions with Dan Schroeder, District Legal Counsel, it is recommended that in lieu of developing a revised connection fee for the District that the District charge a buy-in fee to new development until such time as the existing District capacity (245 EDU's) is reached.

The attached buy-in fee calculation reflects a recommended buy-in fee cost for each equivalent dwelling unit (EDU) served until such time as the District reaches its current capacity (245 additional EDU). This memo details the methodology used to determine the various components of the buy-in fee calculation.

Update of the previously determined existing facilities cost allocation:

Existing Facilities Cost Allocation per the 2006 Phase I Tertiary Facilities Plan = \$3,032 Average annual Construction Cost Index escalation rate history between 2006 and 2014 = 3.1% Using the single payment compound-amount interest factor, \$3,032 (1+0.031)⁸ = \$3,871

Additional buy in cost for completed improvements since 2006:

Cost of completed improvements and financing thereof = \$1,435,097 Existing plus Additional Capacity EDUs = 930 Additional buy-in cost = \$1,435,097 / 930 = \$1,543 per EDU

Buy-in Fee = \$3,871 + \$1,543 = \$5,414

List of Improvements

11/19/2014

Phase	item#	Improvement Project Description	Cost
l ts	1	Outfall Project	\$815,000
ner	2	Main Pump Station	\$272,500
) ple	3	Chlorine Tank	\$108,145
Completed mprovements	4	Dechlorination Facility	\$22,618
٤		Total:	\$1,218,263

Reference
[1] & [2]
[1]
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Jeff

References: .

[1] [2] 9/13/11 Connection Fee Memorandum from G. Ghio

11/14/06 Connection Fee Memorandum from N. Colwell

Buy-in Fee Calculation

11/19/2014

Fee Component	Description	Value
	Existing Facilities Cost Allocation per EDU ^a	\$3,871
Buy-in	Cost of Completed Improvements ^b	\$1,218,263
	Cost of Financing for Completed	
<u> </u>	Improvements ^b	\$216,834

Equivalent	Current EDUs Served	685
Dwelling	Existing District Capacity, EDU	245
Units	Total EDUs	930

Total Cost	Buy-in Cost	\$3,871
Total Cost per EDU	Cost of Completed Improvements	\$1,543
	Buy-in cost per EDU:	\$5,414

Notes:

- a. Buy in cost of \$3,032/EDU per the 2006 Phase I Tertiary Facilities Plan adjusted to 2014 levels
- b. Projects completed since 2006 Connection Fee Analysis. Costs to be distributed over 930 customers

References:

[1] 11/14/06 Connection Fee Memorandum from N. Colwell and Bear Valley Master Plan

BEAR VALLEY WATER DISTRICT

MEMORANDUM

TO BOARD OF DIRECTORS

FROM GARY S. GHIO, DISTRICT ENGINEER

RE 1 in 100 YEAR WATER BALANCE AND PROPOSED

NPDES PERMIT RENEWAL

DATE June 7, 2016

As directed, I have updated the District's 1 in 100 Year Water Balance in an effort to reflect the anticipated requirements which are contained within the draft renewal copy of the District's NPDES permit for discharges to Bloods Creek.

As the Board Members may recall, the District's current NPDES permit prohibits discharge to Bloods Creek from the polishing pond when there is greater than 35 MG of unused storage in the pond. The 35 MG threshold was dictated by the Regional Water Quality Control Board (RWQCB) during the NPDES renewal process in 2011 and was based upon the requirement of having the polishing pond two-thirds full before the discharge to Bloods Creek could commence. This limitation was incorporated into the District's 1 in 100 Year Water Balance and resulted in estimates of future District capacity of 245 RLUs. (See Bear Valley Water District Memorandum dated February 4, 2014.)

As the proposed NPDES permit has removed the two-thirds full requirement for discharge, and in an effort to determine the effects on District capacity, the 1 in 100 Year Water Balance (attached) was revised based upon the assumption that discharge to Bloods Creek would commence once flows within the creek were adequate to accept the District's discharge.

Bloods Creek Flow Data and Influent Flow Data

In order to determine potential monthly amounts of discharge to Bloods Creek based upon the 20:1 dilution requirement contained in the NPDES permit, 2015/2016 Bloods Creek flow data was utilized in the updated water balance in lieu of 2010/2011 data due to concerns with the accuracy of the 2010/2011 data. Both sets of data are attached to this memorandum for information purposes.

The following table presents a comparison of the total precipitation and snow water content projected in the 1 in 100 Year Water Balance as well as what occurred during the 2010/2011 and 2015/16 precipitation seasons.

	1 in 100	2010/2011	2015/2016
Total Precipitation (Inches)	83.00	84.73	54.62
Snow Water Content (Inches)	60.00	60.82	34.56

Although the 2015/2016 water year did not approach what was experienced in 2010/2011, which forms the basis for the 1 in 100 Year Water Balance, the potential discharge amounts for January thru May contained in the attached water balance, are based upon the 2015/2016 flow data and proposed permit limits. The amount of potential creek discharge for the month of June was assumed the same as May due to lack of data in 2015/2016 and the fact that discharges would have occurred thru June in the 2010/2011 scenario. This should result in a conservative estimate of District capacity.

In addition to updating the potential discharge amounts to Bloods Creek, the 90th percentile influent flows contained in the water balance were updated to include influent data thru May 2016.

Water Balance Results

As can be seen from the attached water balance, incorporating the items described above results in a potential District capacity of 1,196 RLUs assuming no infiltration associated with said RLUs.

The Board should remain cognizant that the water balances are to serve as a guide to capacity and total discharge amounts only. The exact timing of discharges to Bloods Creek as well as irrigation of the spray fields will differ from year to year. Due to the limited Bloods Creek flow data used in this analysis, it is not recommended the District revise the adopted estimate of future District capacity. This analysis is primarily to provide the Board members with information regarding the potential increase in capacity based upon the renewal of the NPDES permit.

Collection of accurate Bloods Creek flow data is essential to the determination of District Capacity and as additional data is collected during subsequent years the potential monthly discharge amounts should be refined. It should also be noted the District's waste discharge requirements (WDRs) currently contain a wastewater inflow limit of 100,000 gpd which will need to be revised as new customers are added and flows increase.

#2318/nlm Board Memo_5-13-16

BEAR VALLEY WATER DISTRICT COMPARISON OF BLOOD CREEK FLOWS 2010/2011 AND 2015/2016 June 7, 2016

BLOODS CREEK TOTAL FLOW (MG)

	January	February	March	April	May	June
2010/2011			232	736	1,163	1,705
2015/2016	92	189	402	711	600	

20:1 DILUTION BLOODS CREEK FLOWS (MG)

	January	February	March	April	May	June
2010/2011			11.0	35.1	55.4	81.2
2015/2016	4.4	9.0	19.1	33.8	28.6	

PUT DATA TREATMENT POND CHARACTERISTICS		_STORAGE RE					A CHARACTERIST	ncs	TETAL SURRENCE OF		CUMATOLOGICA	FACTORS	
ROSS AREA (ac)	3.2 2.9	GROSS AREA (ac)		18.6	FRACT OF LAND	ICIT BEFORE IRR	IGATION (IN)		80 n/a n/a	CCT-APR EVAP/AVG EVAP RATIO MAY-SEP EVAP/AVG EVAP RATIO			100
		FRAC EST, PERC		76.43 1.0	FRACTION OF ES	T. PERC RATE	FRACT)		n/a n/a		NT DLLECTED (FRAC)		•
PARAMETER / MONTH	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	CCT	ANNUAL
YS IN MONTH	30	31	31	28	31	30	31	30	31	31	30	31	365
G 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
TIMATED PRECIP (IN)	10.68	20,00	2.84	10.62	21.42	3.37	4.65	1.57	1,66	0.00	1.86	4.35	83,00
TIMATED SNOW ACCUM (IN Water)	7.82	23,83	26.08	36.04	53.71	41.62	22.88	0,00	0.00	0.00	0.00	2.98	
TIMATED 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
TIMATED NEW SNOW IN MONTH (IN Water)	7.82	16.01	2.61	10.08	18,38	1.30	2.37	0.00	0.00	0.00	0.00	1.53	60,11
TIMATED MAX PERCOLATION (IN)(4)	10.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0
OF ADDITIONAL CONNECTIONS (RLU) DITIONAL INFLUENT FLOW (GAL/D)	1,196 240,398	1,196 240,396	1,196	1,198	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,196	
TH PERCENTILE EXISTING FLOWS (AVg. GAL/D)	35,340	75,835	240,396 83,020	240,396 108,476	240,396 123,884	240,396 184,549	240,396 184,888	240,396	240,395	240,396	240,396	240,396	
TAL INFLUENT FLOW (GAL/D)	275,736	316,231	323,416	348,872	354,280	424,945	425,284	125,446 365,842	74,976 315,372	64,231 304,627	40,142 280,538	32,953 273,349	
LOULATIONS									410,072	304,321	200,000	273,049	
COOCHORS	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	ANNUAL
STEWATER VOLUME (gal)	8,272.080	9,803,161	10,025,896	9,768,416	44 004 000	10.710.070					***************************************		
APORATION (IN)	0.5	0,4	0.5	0.5	11,292,680	12,748,350	13,183,804	10,975,260 5.3	9,776,532 6.1	9,443,437	8,416,140	8,473,819	122,179,578
ECIPITATION (IN)	10.66	20.00	2.84	10.62	21.42	3,37	4.65	1.57	1.66	5,5 0,00	4.1 1.86	1.9 4.35	32.6 83.00
EATMENT POND						-101		1.07	1.00	0.00	1,00	4.33	63,00
PERCOLATION (IN)	-8.38	-5.41	-12.69	***			7240 (000)	- Compan	10,01944				
PERC VOLUME (gal)	-659,620	-428,378	-999,502	-7.74 -609,371	-5.73 -451,372	-21.66 -1,705,370	-15.57 -1,226,247	-17.29	-4.18	-2.11	-2.81	-2.97	-106.55
EVAP. VOLUME (gal)	39,374	31,499	39,374	39,374	102,372	173,244	338,614	-1,381,614 417,381	-329,361 480,359	-166,362 433,111	-221,115 322,864	-233,864	-8,390,176
RECIP. VOLUME (gal)	917,603	1,721,582	244,465	914,160	1,843,814	290,037	400,268	135,144	142.891	933,111	160,107	149,620 374,444	2,567,166 7,144,564
REATMENT DISPOSAL(GAIN)/ (gal)	(1,537,849)	(2,116,461)	(1,204,593)	(1,484,157)	(2,192,815)	(1.822,212)	(1,287,901)	(1,079,397)	6,107	266,749	(58,358)	(458,688)	(12,967,574
LISHING RESERVOIR											1. 1- 1.		
PERCOLATION (IN)	10.00	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.01
PERC VOLUME (gal)	1,535,438	7,268,203	0	0	0	0	0	0	0	0	0	0	39.00 8,803,641
V.S. AREA (ac) _(b)	5,65	9.23	10.59	11,26	11.85	12.20	11.03	11.01	10.27	10.10	8.53	3.83	0,000,041
VAP. VOLUME (gal)	75,772	100,251	143,735	152,944	418,428	728,847	1,287,727	1,584,042	1,700,365	1,507,916	949,500	199,939	8,850,465
RECIP, VOLUME (gal) NONTHLY AVAIL: SNOWMELT (IN) _{bit}	5,017,132	9,607,174	1,374,682	5,160,095	10,441,880	1,645,993	2,256,380	761,738	802,063	0	889,925	2,026,313	39,983,375
STIMATED SNOW CONTR. (%) (c)	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
STIMATED AREA OF INFLUENCE (ac)	50	50	50	50	50	50	45% 50	28%	0% 50	0% 50	0%	0%	
STIMATED INFLUX TO STORAGE (gal)(e)	0	0	0	0	0	0	12,897,727	8,697,780	0	0	50 0	50	21,595,507
SERVOIR DISPOSAL(GAIN) (gal)	(3,404,922)	(2.238,720)	(1,230,947)	(5,007,151)	(10,023,451)	(917,146)	(13,866,380)	(7,875,476)	898,301	1,507,916	59,575	(1,826,974)	(43,924,776
IGATION											,	(1,023,014)	(40,024,170
RIGATION DISPOSAL (gai) _{(\$}	0	0	0	0	0	0	0	0	10,796,000	22,361,000	17,521,000	11,999,000	62,577,000
PAGE													
EGINNING STORAGE (gal)	3,268,000	16,482,851	30,641,193	38,702,628	45,962,353	50,371,299	35,859,007	35,597,093	28,927,225	25,001,349	10,309,121	1,203,044	
ALCULATED STORAGE GAIN (gal)	13,214,851	14,158,341	12,461,435	16,259,725	23,508,946	15,467,709	28,338,085	19,930,133	-1,925,876	-14,692,228	-9,106,077	-1,240,119	
ROJECTED ESTIMATED STORAGE (gai) MOUNT DISCHARGED TO BLOODS CREEK (gai)	16,482,851	30,641,193	43,102,628	54,962,353	69,471,299	65,359,007	64,197,093	55,527,225	25,001,349	10,309,121	1,203,044	0	
TUAL ESTIMATED STORAGE (gal)	16,482,851	30,641,193	4,400,000 38,702,628	9,000,000 45,962,353	19,100,000	30,000,000	28,600,000 35,597,093	26,600,000 26,927,225	0 25,001,349	0	0	0	119,700,000
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										MAXIMUM STORA	es niet		50.37
MARY				Sunti Attend	irealement and						AGE (MG)		76.43
JUAL INFLOW (MG)			-		W POTENTIAL (MG)		119.70		OVERALL BALAN	ee		COLUMN TO THE	la cades novacio
STEWATER	122.18						11.42			ALGAPACITY (MG)			16.82
CIPITATION.	47.13		5	ERCOLATION	***************************************		17,19		(MUST NOT BE	NEGATIVE)			
DW INFLUX (MG)	21.50 190.90					TOTAL	62.68 210.99		UNUSED STORAG (MUST NOT BE	SE CAPACITY (MG).	annamina a sina		26.06
Estimated percotation based upon measured inflow components, estimated Reservoir water surface area is a function of storage volume at start of mon 3-stimated scownell volume available for influx to storage reservoir. Stimated percentage of snowmelt contributing to influx to reservoir. Estimated based on fraction of accumulated enow within reservoir area of	th.			e Reservoir only,	the state of the s		2.10.40			. acount		***************************************	

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BEAR VALLEY WATER DISTRICT WASTEWAT (2017 update) Actual Flows/Precipitation		DSAL SYSTEM											1/5/20	118
NPUT DATA														
TREATMENT POND CHARACTERISTICS			_STORAGE RE				IRRIGATION ARE	A CHARACTERISTI	ics			CLIMATOLOGIC	AL FACTORS	
ROSS AREA (ad)		3.2	GROSS AREA (a	······································	. 18.6	DISTRICT DISPO	SAL LAND (AC)			80	1			
VATER SURFACE AREA (ac)		2.9	MAX. WATER SU	RFACE (ac)	. 14.2	SOIL WATER DE	FICIT BEFORE IRRI	GATION (IN)	erturi	n/a	OCT-APR EVAPIA	VG EVAP RATIO		
						FRACT OF LAND	IRRIGATED		•	n/a	MAY-SEP EVAPIA			
				TY (MG)	76.43			FRACT)		n/a	PAN COEFFICIEN			
			FRAC EST, PERC	oresens.	1.0	FRACTION OF ES	T. PERC RATE	and the market	J 14. 7 J. 7 JA . 1 JA . 1	n/a	LAND PRECIP CO			
	PARAMETER / MONTH	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	ANNUA
AYS IN MONTH		30	31	31	28	31	30	31	30	31	31	30	31	365
YG 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
OTUAL PRECIP (IN)		3.47	9.29	33,72	24,71	6.27	10.18	1.20	2.09	0.00	0.00	0.00	0.00	90.91
CTUAL SNOW ACCUM (IN Water)(g)		2.28	4.56	27.72	43.32	40,56	39.24	0.00	0.00	0.00	0.00	0.00	0.00	
CTUAL SNOW MELT IN MONTH (IN Water)		0.84	1.08	0,00	1,32	8.28	10.58	39.24	0.00	0.00	0.00	0.00	0.00	61.32
DTUAL NEW SNOW IN MONTH (IN Water)		3,12	3.36	23.16	18.92	5.52	9.24	0.00	0.00	0.00				
STIMATED MAX PERCOLATION (IN)		10.0	29.0	0.0	0.0	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.00	61.32
						10.00		0.0	0,0	0,0	0.0	0,0	0.0	25
CTUAL INFLUENT FLOW (AVg. GAL/D)		32,967	93,549	152,032	212,250	121,032	156,800	186,531	108,700	0	0	. 0	0	
LCULATIONS		NOV	DEC						-					
	-	NOV	UEG	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	ANNUAL
ASTEWATER VOLUME (gal)		989,010	2,900,019	4,712,992	5,943,000	3,751,992	4,704,000	5,784,011	3,261,000	0	0	0	0	32,046,02
APORATION (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
ECIPITATION (IN)		3.47	9.29	33.72	24.71	6.27	10.16	1.20	2.09	0.00	0.00	0.00	0.00	90,91
EATMENT POND														
ERCOLATION (IN)		8.38	5.41	12.69	7.74	5.73	21.68	15.57	17.29	4.18	2.11	2.61	2.97	103.55
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	8,390,17
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	2,567,16
PRECIP, VOLUME (gal)		298,694	799,675	2,902,587	2,127,014	539,716	874,564	103,295	179,905	0	0	0	0	7,825,45
REATMENT DISPOSAL(GAINY (gai)		(400,299)	341,798	1,863,711	1,478,269	(14,028)	(1,004,051)	(1,461,566)	(1,599,070)	(809,720)	(599,473)	(543,979)	(383,484)	(3,131,89
LISHING RESERVOIR														14111
PERCOLATION (IN)		0.00	0.00	0.00	0.00	0.00	0.00	0.00		222	2.1	100		
PERC VOLUME (gal)		0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W.S. AREA (ac) to		6.20	7.79	9.22	11.29	12.94	12.57	11.28	10.43	0 8.89	0	0	0	0
EVAP. VOLUME (gal)		84.162	84,572	125,165	153,323	458,775	750,752	1,317,554	1,501,080	2000	8.62	8.25	7.84	100000000000000000000000000000000000000
RECIP. VOLUME (gal)		1,638,285	4,426,117	15,196,694	12,008,082	3,075,012	4,972,517	583,124	1,010,762	1,472,930	1,288,867	918,969	404,486	8,556,633
MONTHLY AVAIL SNOWMELT (IN)(a)		0.84	1.08	0.00	1.32	8.28	10.55	39.24	0.00	0.00	0.00	0.00	0	43,910,59
STIMATED SNOW CONTR. (%)		100%	100%	100%	100%	40%	40%	30%	0%	0.00	0%	-11-1	0.00	61.32
STIMATED AREA OF INFLUENCE (ac)		50	50	50	50	50	50	60	50	50	50	0% 50	0% 50	
STIMATED INFLUX TO STORAGE (gallie)		1,140,480	1.466,331	0	1,792,183	4,496,750	5,734,985	15,983,013	0	0	0	0		00.010.74
ESERVOIR DISPOSAL(GAIN) (gal)		2,694,603	5,807,876	16,071,528	13,646,942	7,114,988	9,958,751	15,248,583	(490,316)	(1,472,930)	(1,286,867)	(918,969)	(404,486)	30,613,74 65,967,70
				0.00	00.616.12.47.17.11			10,010,000	(402,010)	(1,472,000)	(1,200,007)	(910,003)	(404,400)	03,907,70
RIGATION RIGATION DISPOSAL (gal)		0	o		-		0.00							
HONTON BIOLOGYE (Ben)W		U	Ü	0	0	0	0	0	0	ō	0	0	0	0
ORAGE														
BEGINNING STORAGE (gal)		4,060,000	7,343,314	16,393,007	39,041,239	60,109,451	55,139,552	38,935,244	28,624,449	13,134,329	10,851,679	8,965,340	7,502,391	500
ALCULATED STORAGE GAIN (gal)		3,283,314	9,049,693	22,648,232	21,068,212	10,852,950	13,656,700	19,571,027	1,171,612	-2,282,650	-1,888,339	-1,462,948	-787,970	
PROJECTED ESTIMATED STORAGE (gal)		7,343,314	16,393,007	39,041,239	60,109,451	70,962,401	68,796,252	58,506,271	29,996,061	10,851,679	8,965,340	7,502,391	6,714,421	=CARRYOVER
MOUNT DISCHARGED TO BLOODS CREEK (gal)	0	0	0	0	15,822,849	29,851,008	29,681,822	18,861,732	0	0	0	0	92,227,411
STIMATED STORAGE (gal)		7,343,314	16,393,007	39,041,239	60,109,451	55,139,552	39,935,244	28,924,449	13,134,329	10,851,679	8,965,340	7,502,391	6,714,421	
CTUAL STORAGE (gal)		7,460,000	17,630,000	40,620,000	64,370,000	56,340,000	39,880,000	27,490,000	15,720,000			1		
											MAXIMUM STORAG	E (MG)	an transfer don't	60,11
MARY					ANNUAL OUTFLO	W POTENTIAL (MG)					AVAILABLE STORA	GE (MG)	acaton.	76.43
NAL INFLOW (MG)						RGED TO BLOODS		92.23		OVERALL BALANC	F			Seattle State State State State
STEWATER	40	32,05						11.12		UNUSED DISPOS	L CAPACITY (MG).			-671
ECIPITATION		51.74						8.39		(MUST NOT BE				-V.K1
OW INFLUX (MG)	•••	30.61					rier, animitana	0.00			E CAPACITY (MG)	66956		18.32
TAL		114.40			Pacaninir only		TOTAL	111.74		(MUST NOT BE	NEGATIVE)			10.02

⁽e) Estimated perculation 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 anowmell volume available for influx to storage reservoir.

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

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

⁽e) Commerce passed on traction of accumulated show within reservoir "area (f) Disposal capacity based on maximum estimated land disposal volumes.

(g) Per Bloods Creek Gauging Station

(h) Not used in calculations

PRODUCT PROPERTY PRODUCT PRO	(2017 update- 2011 Precip. Pattern) 1 in 100 Year Water Balance	Projection - 200	0 thru 5/2016 90T	H Percentile mon	thly ADF plus 1	196 EDU (201 gpd	EDU) - Assumes	no infiltratin with	new EDUs					8
STATE STAT	NPUT DATA													
STATE STAT		2	STORAGE RE	SERVOIR			IRRIGATION ARE	A CHARACTERIST	rics			CLINATOL OCICA	r rigrono	
Wear March	GROSS AREA (ac)	3.2			. 18.6	DISTRICT DISPO				Rn:	-1	CUMATOLOGICA	L FACTORS	
PRINCE CAMPATY MAY TOTAL PRINCE CAMPATY MAY	VATER SURFACE AREA (ac)	2.9	MAX, WATER SU	RFACE (ac)	14.2						OCT APP DUAD	AUC CAR DIVIO		
STATISTIC PARTY PAGE 174.0				07.41 C 1477 \$ 17.04 11.010 (2.50 C										
PRINCE PRINCE 100			STORAGE CAPAC	CITY (MG)	76.43	IRRIGATION EFF	CIENCY (DECIMAL	FRACTI	ere National and a state of the same		DAN COEFFICIE	AVG EVAP RATIO		***
PARAMETER J MODITI 1007														***
NAYS MEDICH	PARAMETER / MONTH	NOV					The state of the s							
VIOLENCE PROPRIES DESIGN OF STATE OF ST														ANNUAL
### STRANTOP SECRETORY 10.06 20.00 244 10.02 71.02 32.7 455 157 158 50.0													31	365
\$\frac{1}{2}\frac{1}\frac{1}{2}\f									1 - 1 - 1		1.00			43.62
STRIATED SON MEST IN MONTHS (WHOS) 7.22 10.01 2.21 10.02 0.00 0.00 0.00 0.00											0.00	1.86	4.35	83.00
### PRODUCTION (P) ### PR					36.04	53.71	41.62	22.88	0.00	0.00	0.00	0.00	2.96	
### STANLEY MANUFACTION MANUFA	[18] [18] 12] 12] 12] 12] 12] 12] 12] 12] 12] 12	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
IMPLIENT PLAY 1906 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			16.01	2.61	10.08	18.38	1.30	2.37	0.00	0.00				
0F ACCITIONAL CONNECTION (PAIL) 1199 1199 1199 1199 1199 1199 1199 11	STIMATED MAX PERCOLATION (IN)(a)	10.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				00.11
Definition Commonweal Com													0.0	
ALTONOMIC PROCESSION 240,386 340,386 2	OF ADDITIONAL CONNECTIONS (RLU)								1,196	1,196	1,196	1,196	1,196	
THE PRINCE 23,40 75,95 85,00 104,479 123,84 145,69 146,489 125,44 74,870 64,231 40,462 23,939									240,398	240,396				
ADMINISTRATION (COLUMN 1 1997)														
MOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP COT ANNUAL MAJE	STAL BIFLOENI PLOW (GALD)	2/5,738	316,231	323,416	348,872	364,280	424,945	425,284	365,842	315,372	304,627	280,538		
MOV DEC JAN FEB MAR APR MAY JUN JUL AUS DEP COT ANNUAL MINERAL MATERIAL MATE	NO PARIO DE LA CONTRACTOR DEL CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR													
ASSENDATION COUNTRY (a) 5.277, CR00 5.277, CR00 5.276, A10 5.2	LODESTIONS	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JÜL	AUG	SEP	OCT	ANNUAL
APPORATION (N) 0.5 0.4 0.5 0.5 1.3 2.2 4.3 5.3 6.1 5.5 0.1 1.4 0.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1	ASTEWATER VOLUME (gal)	8,272,080	9.803,161	10.025.896	9.768.416	11.292.680	12 748 350	13 183 EOA	10.075.060	0.776.522	0.419.427			
SECRETATION (NO) 10 66 20.00 2.84 10.52 2.142 3.37 4.85 1.57 1.65 0.00 1.85 4.35 8.20.00	/APORATION (IN)	0.5	0.4											
EXTENSIT POOD EXECUTATION (P) EXE 5.21 12.25 7.74 5.72 21.65 15.57 17.29 4.18 2.11 2.81 2.83 10.032 2.11,15 2.33,944 8.50,17 19.04 9.17,03 9.17,0	RECIPITATION (IN)	10.56	20.00											
PERDOLITION	CATHERY DOUB										0.00	1.00	4.33	63,00
PERCO VOLUME (gal) 803.00 403.70 805.00 405.376 805.00 405.376 805.00 405.376 805.00 405.376 805.00 405.376 805.00 405.376 805.00 405.376 805.00 405.376 805.00 405.376 805.00 405.376 805.00 405.376 805.00 405.376 805.00 405.376 405.00 405.0			26000	0.000										
EVAP, PULLINE (gal) 39,374 31,469 39,374 30,374 10,2372 117,324 39,8514 41,781 46,0389 43,111 32,728 110,530 2,557,160 11,60 50,00 17,71,52 24,465 91,410 1,543,414 20,057 40,0268 155,144 142,281 0 180,107 374,444 71,445,678 166,041,041,041,041,041,041,041,041,041,041												2.81	2.97	106.55
2557.16 20.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0											168,382	221,115	233,864	8,390,176
REATMENT DISPOSAL (CAMP) (qui) 218,009 1,283,705 (794,411) 205,415 1,200,070 1,588,523) (1,64,624) (1,64,623) (1,64,624) (1,64,624) (1,64,624) (1,64,624) (1,64,624) (1,64,6											433,111	322,864	149,820	2,567,166
Company Comp												160,107	374,444	7,144,564
PERCOLATION	KEATHERT DISPOSAL (SAIR) (gai)	218,509	1,203,700	(794,411)	265,415	1,290,070	(1,588,528)	(1,184,593)	(1,843,831)	(666,829)	(599,473)	(383,872)	(9,040)	(3,812,778
PERC VOLUME (gst) 820 937 1121 11.11 21:9 12.46 11.02 10.79 9.00 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	DLISHING RESERVOIR													
PERC VOLUME (gal)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	nm	0.00	0.00	0.00	
NS. AREA (ex)s 6.20 9.37 11.21 11.71 11.22.81 11.20 11.21 11.22.81 11.20 11.21 11.22.81 11.20 11.21 11.22.81 11.20 11.23 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.22.81 11.20 11.21 11.21 11.22.83 11.44.742 10.00 11.44.745 10.00 11.44.745 10.00 11.44.745 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.22.81 11.20 11.21 11.21 11.22.83 11.21 11.22.83 11.21 11.21 11.22.83 11.21 11.21 11.22.83 11.21 11.22.83 11.21 11.21 11.22.83 11.21 11.21 11.22.83 11.44.745 10.00 11.44.745 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.22.83 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.21 11.		0	O	0										
PAYP. POLIUME (ga) 10.709 10.7	V.S. AREA (ac)(a)	6.20	9.37	11.21	11.71		100				•			0
FRECIP VOLUME (gal) 5,002,687 9,814,784 1,379,515 5,172,869 10,451,230 1,848,344 2,256,279 760,823 760,978 0 578,046 2,010,984 4,015,025 0,000 0,000 0,36 0,12 0,74	EVAP. VOLUME (gal)	84,162	101,769	152,244										0.115.100
AGNTHLY AVAIL. SHOWMELT (Nigh OCC 0.00 0.36 0.12 0.71 13.40 21.11 22.83 0.00 0.00 0.00 0.00 1.42 6070 SSTIMATED BOX CONTR. (Nigh ON 0N 0N 0N 0N 0N 0N 0N 550 50 50 50 50 50 50 50 50 50 50 50 50		5,032,887	9,614,764	1,379,515	5,172,859									
SSTIMATED ARGO (NFLUENC) (2015), 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MONTHLY AVAIL, SNOWMELT (IN)(III)	0.00	0.00	0.36	0.12	0.71	13.40							
SSTIMATED INFLUENCE (as) 50 50 50 50 50 50 50 50 50 50 50 50 50				0%	0%	0%	0%					1000000		60.00
SEMINATED INFLUX TO STORAGE (gall), 4,848,725 9,512,995 1,227,271 5,013,906 10,031,058 904,159 13,867,212 7,505,462 (823,763) (1,446,786) 177,715 2,844,422 54,162,386 (823,763) (1,446,786) 177,715 2,844,422 54,162,386 (823,763) (1,446,786) 177,715 2,844,422 54,162,386 (823,763) (1,446,786) 177,715 2,844,422 54,162,386 (823,763) (1,446,786) 177,715 2,844,422 54,162,386 (823,763) (1,46,786) 177,716 2,844,422 54,162,386 (823,763) (1,46,786) 177,716 2,844,422 54,162,386 (823,763) (1,46,786) 177,716 2,844,422 54,162,386 (823,763) (1,46,786) 177,716 2,844,422 54,162,386 (1,46,786) 177,716 2,844,422 54,162,386 (1,46,786) 177,716 2,844,422 54,182,386 (1,46,786) 177,716 2,844,422 54,182,386 (1,46,786) 177,716 2,844,422 54,182,386 (1,46,786) 177,716 2,844,422 54,182,386 (1,46,786) 177,716 2,844,422 54,182,386 (1,46,786) 177,716 2,844,422 54,182,386 (1,46,786) 177,716 2,844,422 54,182,386 (1,46,786) 177,716 2,844,422 54,182,386 (1,46,786) 177,716 2,844,422 54,182,386 (1,46,786) 177,716 2,844,				50	50	50	50	50						
## SERVICE DISPOSAL (GAIN) (gail) 4,949,725 9,512,995 1,227,271 5,013,508 10,031,058 904,150 13,667,212 7,505,452 (823,763) (1,446,766) 177,715 2,844,422 54,162,361 10,000 10,00				D	0	0	0	12,897,727	8,697,780					22 561 520
PRIGATION DISPOSAL (gall) _(gl) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ESERVOIR DISPOSAL(GAIN) (gal)	4,948,725	9,512,995	1,227,271	5,013,906	10,031,058	904,150	13,867,212	7,905,452	(823,760)	(1,446,786)			54,162,360
DRAGE SEGINNING STORAGE (gal)														
SEGINNING STORAGE (gal) 4,060,000 17,499,415 38,079,276 44,138,032 50,165,768 50,690,576 30,763,549 33,049,972 21,686,663 19,176,796 4,212,974 0		0	0	0	0	0	0	0	0	10,796,000	22,381,000	17,521,000	11,999,000	62,677,000
ALCULATED STORAGE (QNI) (gn) 13,439,415 20,579,861 10,458,756 16,047,737 22,613,808 12,003,973 25,886,423 17,236,881 2,510,057 -14,963,822 -9,311,017 -389,799 ROJECTED BSTIMATED STORAGE (gni) 17,459,415 33,079,276 45,534,032 59,165,766 72,759,576 65,793,549 61,649,972 50,266,853 19,176,706 4,212,674 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0														
ALCULATED STORAGE (QAIN (gal) 13,439,415 20,579,861 10,458,756 15,047,737 22,613,808 12,033,973 25,886,423 17,236,881 2,510,057 -14,903,922 -9,311,017 -589,799					44,138,032	50,185,768	53,699,576	35,763,549	33,049,972	21,686.853	19,176,796	4.212.974	0	
ROJECTED ESTIMATED STORAGE (gall) 17,489,415 38,079,276 48,538,032 59,165,766 72,799,576 65,783,549 61,849,972 50,286,853 19,176,796 4,212,974 0 0 0 0 0 0 0 0 0					15,047,737	22,613,808	12,063,973							
MOUNT DISCHARGED TO BLOCOS CREEK (gal) 0 0 4,400,000 9,000,000 18,100,000 30,000,000 28,600,000 28,600,000 0 0 0 0 0 119,700,000							65,763,549							
STIMATED STORAGE (gall) 17,489,415 38,079,276 44,138,032 50,185,768 53,689,576 35,783,549 33,049,972 21,686,853 19,176,796 4,212,974 0 0						19,100,000	30,000,000					6	100	119,700,000
ANNUAL OUTFLOW POTENTIAL (MG) ANNUAL OUTFLOW POTENTIAL (MG) AMOUNT DISCHARGED TO BLOODS CREEK. 119.70 OVERALL BALANCE TEWATER. 122.18 EVAPORATION. 10.98 UNUSED DISPOSAL DARACITY (MG). 5.79 CIPITATION. 47.16 PERCOLATION. 8.39 (MUSEN NOT BE REGATIVE) WINFLUX (MG). 22.56 IRRIGATION. 82.68 UNUSED ROPAGE CRAPAGE CAPAGE (TYMG). 22.73	STIMATED STORAGE (gal)	17,499,415	38,079,276	44,138,032	50,185,768	53,699,576								
ANNUAL OUTFLOW POTENTIAL (MG) ANNUAL OUTFLOW POTENTIAL (MG) AMOUNT DISCHARGED TO BLOODS CREEK. 119.70 OVERALL BALANCE TEWATER. 122.18 EVAPORATION. 10.98 UNUSED DISPOSAL DARACITY (MG). 5.79 CIPITATION. 47.16 PERCOLATION. 8.39 (MUSEN NOT BE REGATIVE) WINFLUX (MG). 22.56 IRRIGATION. 82.68 UNUSED ROPAGE CRAPAGE CAPAGE (TYMG). 22.73											MAXIMUM STORAG	GE (MG)	·	53.70
AMOUNT DISCHARGED TO BLOODS CREEK 119.70 CVERALL BALANCE STEWATER 122.18 EVAPORATION 10.98 UNUSED DISPOSAL DAPACITY (M3) 5.79					ANNUAL OUTFLO	W POTENTIAL (MG	ı				AVAILABLE STOR	AGE (MG)		
12.18 EVAPORATION 10.98 UNUSED DISPOSAL CAPACITY (MG) 5.79 COPPTATION. 6.39 (MUST NOT BE NEGATIVE) (MG) 7.73 (MG) (AMOUNT DISCHA	RGED TO BLOODS	CREEK	119.70		OVERALL BALANC	DE STATE OF THE ST			2505-2505-250
CPITATION 47.16 PERCOLATION 8.39 (MUST NOT BE NEGATIVE) WINFLUX (MG) 22.55 IRRIGATION 62.68 UNUSED STOPAGE CAPACITY (MG) 22.73	STEWATER				EVAPORATION		Philippine .			UNUSED DISPOS	AL CAPACITY (MAI			6.70
WINFLUX (MG) 52.68 UNUSED STORAGE CAPACITY (MG) 22.73	ECIPITATION				PERCOLATION	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				(MUST NOT BE	NEGATIVE			0.48
	OW INFLUX (MG)						edemontark (frank) (fo			UNUSED STORAG	E CAPACITY (MG)			27.73

⁽a) Estimated perculation 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 snowmett volume available for influx to storage reservoir.

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

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

Disposal capacity based on maximum estimated and disposal volumes.
 Per Bloods Creek Gauging Station
 Not used in calculations.

BEAR VALLEY WATER DISTRICT WASTEWATER TREATMENT AND												1/5/201	8
2017 update - 2017 Precip. Pattern) 1 in 100 Year Water Bala UPUT DATA	nce Projection - Zu	00 thru 5/2016 91	TH Percentile mo	nthly ADF plus	1196 EDU (201 gpc	VEDU) - Assumes	no infiltratin with	h new EDUs					
TREATMENT POND CHARACTERISTICS	Teb	STORAGE RE	SERVOIR			IPPICATION APO	A CHARACTERIST	nee					
ROSS AREA (80)	3.2		nc)	18.6	INISTRICT DISPO	SAL LAND (AC)				1	CLIMATOLOGIC	AL FACTORS	
ATER SURFACE AREA (ac)	2.9	MAX WATERS	JRFACE (ac)	14.2	CON WATER DE	FIGIT BEFORE IRR	CATION (48				an resident		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***	Mark Water	in yor ladining		FRACT OF LAND	FIGH BEFORE IKK	GATION (IN)	******	n/a				
		STORAGE CAPA	CITY (MG)	76,43	IPPICATION CCC	IRRIGATED	CDAOTI	•••	n/a				•
		FRAC EST. PER		1.0	FRACTION OF ES	ICIENCY (DECIMAL ST. PERC RATE	FRACI)		. n/a n/a	PAN COEFFICIE			
PARAMETER / MON	TH NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	OLLECTED (FRAC). SEP	OCT	ANNUAL
YS IN MONTH	30	31	31	28	31	30	31	30	31	31	30	31	365
G PAN EVAP (IN)	0.89	0.61	0.76	0.83	2.14	3.69	5.34	5.64	7,63	6.87	5.17	3.05	43.62
TIMATED 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	
TIMATED SNOW ACCUM (IN Waterket	2.23	4.46	27.12	42.39	39.69	38.40	0.00						83,00
TIMATED SNOW MELT IN MONTH (IN Water)	0.82	1.06	0.00	1.29	8.10	10.33		0.00	0.00	0.00	0.00	0.00	
TIMATED NEW SNOW IN MONTH (IN Water)	3.05	3.29					38.40	0.00	0.00	0.00	0.00	0.00	60.00
TIMATED MAX PERCOLATION (IN)	10.0	29.0	22.66	16,56	5.40	9.04	0.00	0.00	0,00	0.00	0,00	0.00	60.00
The state of the s	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)	1,166	1,196	1,198	1,198	1,196	1,198	1,196	1,196	1,196	3.400	4 400		
DITIONAL INFLUENT FLOW (GAL/D)	240,396	240,396	240,396	240,398	240,398	240,396	240,396	240,396	1,196 240,396	1,196	1,196	1,196	
TH PERCENTILE EXISTING FLOWS (Avg. GAL/D)	35,340	75,835	83,020	108,476	123,684	184,549	184,888	125,446	74,976	240,395 64,231	240,396 40,142	240,396	
TAL INFLUENT FLOW (GAL/D)	275,736	316,231	323,416	348,872	364,260	424,945	425,284	365,842	315,372	304,627	280,538	32,953 273,349	
								000,012	010,072	504,027	200,000	213,348	
LOULATIONS	NO.												
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	ANNUA
STEWATER VOLUME (gal)	8,272,080	9,803,161	10,025,896	9,768,416	11,292,680	12,748,350	13,163,804	10,975,260	9,776,532	9,443,437	8,415,140	8,473,819	122,179,5
APORATION (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
ECIPITATION (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
EATMENT POND													
PERCOLATION (IN)	8.38	5.41	12.69	7.74	5.73	21.66	15.57	17.29	4.18	244			
PERC VOLUME (gal)	659,820	426,378	999,502	609.371	451,372	1.705.370	1,226,247	1,361,614	329,361	2.11 166.362	2.81	2.97	106.55
EVAP. VOLUME (gal)	39,374	31,499	39,374	39,374	102,372	173,244	338,614	417,361	480,359	433,111	221,115 322,664	233,864 149,520	8,390,17
PRECIP. VOLUME (gal)	272,871	729,951	2,650,375	1,941,944	492,372	798,814	94,637	164,411	0	433,111	0	0	2.567,16
REATMENT 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)	7,145,42
LISHING RESERVOIR												1	(0,01.10)
PERCOLATION (IN)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				200	
PERC VOLUME (gal)	0	0	0	0	0	0	0.00	0.00	0.00	0,00	0.00	0.00	0.00
V.S. AREA (ac)(b)	6.20	9.02	10.52	12.32	13.41	13.33	12.67	12.50	10,69	0 10.58	9,12	0	0
VAP. VOLUME (gal)	84,162	97,925	142,888	167,265	473,377	796,269	1,479,375	1,799,534	1,903,763	1,580,200	1,015,010	6.65 343,175	0.700.04
RECIP. VOLUME (gal)	1,496,647	4,068,510	14,698,488	11,026,175	2,812,579	4,581,027	538,670	934,466	0	0	0	0	9,782,94 40,336,54
ONTHLY AVAIL SNOWMELT (IN) ₍₄₎	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
STIMATED SNOW CONTR. (%)(s)	100%	100%	100%	100%	40%	40%	30%	0%	0%	0%	0%	0%	00.00
STIMATED AREA OF INFLUENCE (ac)	50	50	50	-50	50	50	50	50	50	50	50	50	
STIMATED INFLUX TO STORAGE (gal)(e)	1,115,930	1,434,767	0	1,753,604	4,399,951	5,611,532	15,638,956	0	O	0	0	0	29,954,73
SERVOIR DISPOSAL(GAIN) (gal)	2,528,414	5,405,352	14,755,579	12,612,514	6,739,152	9,376,289	14,698,250	(865,067)	(1,803,763)	(1,580,200)	(1,015,010)	(343, 175)	60,508,33
IGATION													
RIGATION DISPOSAL (gal) ₁₀	0	0	0	0	0	0	0	0	10,796,000	22,361,000	17,521,000	** 000 000	00.077.00
DRAGE			970	15	51 75 1			V	10/130/000	22,301,000	17,021,000	11,999,000	82,677,00
PRAGE EGINNING STORAGE (gail)	4 6	4. 40		20200000									
ALCULATED STORAGE (GBI)	4,060,000	14,434,371	29,914,958	51,907,933	66,582,062	65,452,522	56,497,361	54,309,241	34,204,870	30,571,918	15,474,682	4,810,833	
ROJECTED ESTIMATED STORAGE (gal)	10,374,371	15,480,587	26,392,975	23,674,129	17,970,460	21,044,839	26,411,880	8,495,628	-3,632,951	-15,097,236	-10,663,849	-4,251,841	
OUNT DISCHARGED TO BLOODS CREEK (gal)	14,434,371	29,914,958	56,307,933	75,582,062	84,552,522	86,497,361	82,909,241	62,804,670	30,571,918	15,474,682	4,810,833		=CARRYOVER
TIMATED STORAGE (gal)	14,434,371	29,914,958	4,400,000 51,907,933	9,000,000	19,100,000 65,452,522	30,000,000 58,497,361	28,600,000 54,309,241	28,500,000 34,204,670	0 30,571,918	0 15,474,682	0		119,700,000
	THE STATE OF THE STATE OF	000000000000000000000000000000000000000			,	20,20,001	V1/000/£41	04,204,010	30,071,018		4,810,833	558,993	
										MAXIMUM STORA AVAILABLE STOR	GE (MG)	mark and a state of the state o	66.58 76.43
AWARY					W POTENTIAL (MG)						with Imolitation		70.43
UAL INFLOW (MG)				AMOUNT DISCHA	RGED TO BLOODS O	REEK	119.70		OVERALL BALAN	CE TOTAL CONTRACTOR		Single States	DESCRIPTION OF THE PARTY OF THE
STEWATER	122.18			EVAPORATION	errorianismus-tanismus	nest the office	12,35						-0.56
CIPITATION	47.48			PERCOLATION	artiformacion discour	an' an	8.39		(MUST NOT BE	NEGATIVE			
DW INFLUX (MG)	29.95			IRRIGATION			62.68		THEODY HOLDE	MECHANISE	ningan kaliantan		

[[]B] Estimated percolation based upon measured inflow components, estimated evaporation, and actual reservoir levels in 2011 - in Storage Reservoir only.

(c) Estimated anownell volume available for influx to storage volume at start of month.

(d) Estimated percontage of snowmell contributing to influx to reservoir.

(e) Estimated percontage of snowmell contributing to influx to reservoir.

(e) Estimated percontage of snowmell contributing to influx to reservoir.

(e) Estimated based on fraction of accomulated encor within reservoir "area of influence" entering the reservoir during encormelit months.

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

(g) Per Bloods Creek Gauging Station

(h) Not used in calculations

EXISTING NUMBER OF CONNECTIONS (EDUS) BEAR VALLEY WATER DISTRICT

	and the state of t		Number of Connections (EDUs)	, ravu
KESIDEI Zie Family Pacels	ENTIAL DEVELOPMENT	3002 II	2018	Juobiliud
thside (dus blo) t 1		Tb	57	65
2,3,4,6 2 (New S	(qng)	283	TOE	436
e Alpine Basin Cab		22	22	ΖE
	lasoT du2 abi2 dnoM	948	89E	755
thside		30 - 00	-	
5		o	0	44
4		0	0	09
8		0	0	22
01		0	0	T pp
	letoT du2 shizrthuo2	0	0	T9T
	lstoT du2 Istinable99	346	898	£69
iti Family Parcels	S			
episht.	,,,	31	31	91
- 1 Condo Bear		16	91	91
- 2, 3 ³ (Creekside		113	ELL	251
-4 (Tamarack)	ilage (Silver Mountain)	O OZ	20	100
- 6 - (Sundowner)	7.6	0	O ZI	0€ 2T
tt-		0	0	15
- 10 (Black Forest	(ts	0	0	SÞ
- 12 (Bear Paw Rid		0	0	113
	North Side Sub Total	149	181	180
abizdtı				T
- 12 (Southside)	9	O	0	ÞΕ
(abisatuo2) EL -		٥	0	ÞS
(apisituos) At -		0	0	79
(spistinos) et -		0	0	122
(Southside)	South Side Sub Total	0	0	315

Total Number of EDUs Per 1978 Master Plan =	965	059	3012
lictoft briefe	96\$	059	STOZ
Commercial Sub Total	TOT	TOT	0ES
US Forest Service Facilities (Resort/Campgrounds) 10	97	79	97
e (besogoid) egbol qoT sese	0	0	ÞT
Bear Valley Mountain Resort	7.7	77	67
VC - Z (Bear Valley Village - Proposed)	0	0	385
VC - 1 (Bear Valley Village - Existing)	t/S	ÞS	94

6bT

69T-

792

9611

181

	t 32 and termodered lesens dth/B 1
0571	EDUS Remaining - System Total - 1846 EDUS =

⁻ BVMP General Development Plan - SF 2, 3, 4, 6, MF-11, MF-12 (New Sub incl Cub Lane, Avalanche, Flynn Road, Granite Ridge)

Single Family + Multi Family Total

Multi Family Sub Total

Existing Condos - Creekside = 113, Condo Bear = 16, Tamarack = 20, Sundowner = 12; Total = 161

⁽²²⁾ Special Use Permit (SUP) Cabins Invoiced (connected to BVWD); 37 Cabins Total - Assumes All Could Connect to BVWD

SVMP General Development Plan - VC1+C1

In terms of Equivalent Dwelling Units where one EDU is equivalent to 1,350 st of residential space. (350 residentia) SFEs + 16.8 employee housing SFEs + 45 commercial SFEs - 26.5 Bear Valley Lodge SFEs = 385 SFEs). Rather than defining a unit as a two-bedroom residence, the applicant is proposing to define the residential portion of the project 5 2012 BVV EIR 2012 Addendum - The project would generate a net demand for 385 new SFEs:

Therefore, the ski area improvements could generate demand for an additional 7 SFEs (i.e., a 29-percent increase over 24 SFEs). ZOLZ BVV EIR Addendum - Increasing skier visitation by 40,000 (i.e., from 140,000 to 180,000 skiers per season) represents a 29 percent increase.

Anom St - leg 005,842

Beat Valley Mountain - Wastewater Flow

²⁰¹² Beat Volley Mountain Expansion EA - 12,500 sq ft Beat Top Lodge - 270 seat capacity - 14 RLUs

⁽⁴⁾ amoonited asU yea - 232U at

^{295,191} gal-12 month Anom Lt - leg 089, EDE Anom St-lea OSL, LEI

USFS - Campground Bathrooms (14)
Lake Alpine Resort (Rest/Cabins/Store)

Bear Valley Water District Depreciation Schedule - Book Data Year Ended 12/31/2017 Buy-In Fee Calculation

Set No.		Asset Description	<u>Life</u>	Date Purchased	Original <u>Cost</u>	Date Constructed ENR Construction Cost Index	Dec. 2017 ENR Construction Cost Index	Adjusted Dec 2017 Cost
(c) 1:	LAND							
1.0 Land	1.0 Land		0	1/19/20	\$25,805			
@ 1: LAND					\$25,805			
(c) 21:	PLANT & ADMIN							
11.0	1993 Ford 4X4 Pick	wo Truck	5	6/1/93	\$12,747	5260	10870	\$26,342
14.0	Snowblower		5	10/1/97	\$1,925	5848	10870	\$3,578
15.0	Office Building		40	10/31/97	\$288,204	5848	10870	\$535,701
17.0 197.0	Dodge Ram Pickup	1	6	1/1/99	\$16,846	6000	10870	\$30,519
197.0	Utility Transfer Swi Phone System	lich	20	8/24/15	\$1,555	10039	10870	\$1,684
	Web Site			2016 2014	\$2,240 \$1,775	10338 9806	10870 10870	\$2,355 \$1,968
A 14 2 1 1 1 1 1						3600	100/0	\$1,506
9 21: PLANT &	ADMIN - 18 Asset(s)				\$325,292			\$602,147
(c) 22:	SEWAGE - LIFT STA	TIONS						
21.0	Generator		20	11/1/91	\$12,402	4896	10870	\$27,535
23.0	Boat Ramp		15	12/1/92	\$6,299	5059	10870	\$13,534
25.0	Chickaree Pump Ho		10	6/1/98	\$3,190	5895	10870	\$5,882
26.0 27.0	Chickaree Pump Ho	1	10	1/1/99	\$1,126	6000	10870	\$2,040
28.0	Lake Alpine Pumps Irr. Pump #2 & Upg		15	1/1/05	\$76,657	7297	10870	\$114,192
29.0	Remodel Costs	iaues	15 15	1/1/05 1/1/05	\$2,720 \$8,765	7297 7297	10870	\$4,052
30.0	Boat Ramp		15	1/1/05	\$2,567	7297 7297	10870 10870	\$13,057 \$3,824
31.0	Auto Dialer		15	9/1/05	\$3,516	7540	10870	\$5,069
33.0	A/B 100 HP Start w	/Controls	15	10/13/06	\$13,621	7883	.10870	\$18,782
199.0	Phase Converter L.		10	6/30/17	\$6,891	10703	10870	\$6,999
	(2) Apollo Actuator	Valves - Lake Alpine Boat Ramp		2017	\$5,959	10870	10870	\$5,959
© 22:	SEWAGE - LIFT STA	TIONS - 17 Asset (s)			\$143,713			\$220,924
<u>© 23:</u>	SEWAGE COLLECTION	NO		•				
37.0	Main & LA Pump St	ation	40	9/1/79	\$33,186	3003	10870	\$120,124
38.0	Connector		10	10/1/79	\$7,846	3003	10870	\$28,400
39.0	Pump Station Mod	fication	40	10/1/79	\$6,748	3003	10870	\$24,426
40.0	Log Cabin Bypass		20	11/1/79	\$8,157	3003	10870	\$29,526
42.0 43.0	Containment Basin		10	9/1/79	\$5,716	3003	10870	\$20,690
44.0	Comminutor Pump		10 10	10/1/79	\$3,289	3003	10870	\$11,905
46.0	Pump & Switch Gea		10	7/31/80 11/1/80	\$2,236 \$2,478	3237 3237	10870 10870	\$7,509 \$8,321
48.0	Raco High Water A		10	10/18/83	\$1,809	4066	10870	\$4,836
49.0	Transformer		10	10/1/84	\$4,567	4146	10870	\$11,974
52.0	Relief Control Valve		10	7/1/85	\$1,947	4195	10870	\$5,045
53.0	Press Relief Valves		10	7/1/85	\$518	4195	10870	\$1,342
57.0 61.0	Leak Detection Syst	em	10	9/1/86	\$1,982	4295	10870	\$5,016
63.0	Overflow Tanks Smart Pump LC Uni		10	6/1/88	\$9,339	4519	10870	\$22,464
64.0	New Pump - Lake A		10 10	10/1/89 10/1/89	\$1,129 \$6,778	4615 4615	10870 10870	\$2,659
67.0	Generator (Emerge		15	8/1/02	\$9,547	6592	10870	\$15,965 \$15,743
70.0	System Maps	- ·	10	11/1/03	\$6,928	6794	10870	\$11,084
71.0	Waterman Valve		10	11/1/03	\$5,954	6794	10870	\$9,526
75.0	2007 Chevy Truck		5	10/13/06	\$8,330	7883	10870	\$11,486
77.0 177.0	Confined Space Ent		10	1/1/09	\$4,219	8549	10870	\$5,364
182.0	Main Pump Station Ebara K Series Pum		20 10	6/30/12 6/35/13	\$171,561	9291	10870	\$200,718
183.0	Versight Pro 200 Pu		10	6/25/13 8/30/13	\$6,114 \$11,910	9542 9545	10870 10870	\$6,965 \$13,563
185.0	Additional Ebara Pu		10	9/30/13	\$688	9545 9552	10870	\$13,563 \$783
198.0	Smartcover Monito	r/Alarm	7	6/30/17	\$15,390	10703	10870	\$15,630
	New E&H 8" Mag Fl	ow Meter - Main Pump St.		2017	\$16,185	10870	10870	\$16,185
© 23:	SEWAGE COLLECTION	ON 47 Acces (c)			\$354,551			\$627,250

Set No.	Asset Description	<u>Life</u>	Date Purchased	Original <u>Cost</u>	Date Constructed ENR Construction Cost Index	Dec. 2017 ENR Construction <u>Cost Index</u>	Adjusted Dec 2017 Cost
<u>© 24:</u>	SEWAGE DISPOSAL FACILITY						
76.0	Bloods Creek Outfall	40	6/30/08	\$742,797	8185	10870	\$986,463
78.0	Disposal Facilities	40	1/1/71	\$8,587	1581	10870	\$59,039
79.0 80.0	Engineering Irrigation Pipe	40	1/1/77	\$6,648	2576	10870	\$28,053
81.0	Spray Field Phase I	10 10	8/1/80 1/1/83	\$7,567 \$48,778	3237 4066	10870 10870	\$25,410 \$130,403
82.0	Sprayfield Additions	20	9/1/85	\$6,644	4195	10870	\$17,216
83.0	Pump & Irrigation Valves	10	8/1/86	\$7,074	4295	10870	\$17,903
84.0	Irrigation Systems	10	8/1/87	\$5,070	4406	10870	\$12,508
85.0	New Irrigation System	7	7/1/88	\$522	4519	10870	\$1,256
86.0 87.0	Absorbtion Trench Trench	10	7/1/88	\$1,970	4519	10870	\$4,739
88.0	Sprayfield	10 10	9/1/88 7/1/89	\$5,123 \$1,068	4519 4615	10870 10870	\$12,323 \$2,516
89.0	Sprayfield	10	9/1/89	\$445	4615	10870	\$2,516 \$1,048
90.0	Sprayfield	10	4/1/90	\$10,237	4693	10870	\$23,711
91.0	Pump	10	7/1/90	\$7,643	4734	10870	\$17,550
92.0 93.0	Sprayfield Expansion	10	10/1/91	\$4,251	4892	10870	\$9,446
94.0	Sprayfield Expansión Sprayfield Expansión	10 10	6/1/93	\$420	5260 5330	10870	\$868
95.0	Extend Sprayfield	10	8/1/93 12/1/96	\$13,353 \$10,131	5230 5744	10870 10870	\$27,753 \$19,172
96.0	Irrigation Pipe	10	3/1/98	\$898	5875	10870	\$1,661
97.0	Booster Pump MDL 8C-4	10	7/1/01	\$8,940	6404	10870	\$15,175
98.0	Guard-It Auto Dialer	10	9/1/01	\$1,053	6391	10870	\$1,791
99.0	Pumps	10	8/1/01	\$8,399	6389	10870	\$14,290
100.0 101.0	Effluent 100 HP Pump Peerless Pump	10	10/1/01	\$7,000	6397	10870	\$11,895
102.0	Simfloo Pump	10 7	9/1/02 10/1/02	\$5,974 \$2,365	6589 6579	10870 10870	\$9,855 \$3,908
103.0	Irrigation Flow Meter	10	6/1/04	\$9,841	7109	10870	\$15,047
104.0	Groundwater Monitoring Wells	10	1/1/05	\$10,785	7297	10870	\$16,066
105.0	Paco Pumps	10	10/23/06	\$4,050	7883	10870	\$5,585
106.0 107.0	Outfall Permit & Design	50	1/5/07	\$51,378	7880	10870	\$70,873
108.0	NPDES Permit - 2011 DSP Facilities/Sprayfield Pipe	5 5	7/1/11 6/30/12	\$60,189	9080 9291	10870 10870	\$72,054
109.0	Dechlorination System	10	7/1/12	\$17,442 \$21,540	9291 9324	10870	\$20,406 \$25,112
110.0	Outfall Bypass	25	8/24/14	\$28,914	9846	10870	\$31,921
111.0	Pump Rebuild	15	9/22/14	\$20,199	9870	10870	\$22,246
112.0	Softstart for Pump	15	9/17/14	\$8,545	9870	10870	\$9,411
113.0 114.0	Cla-Val Irrigation Pump	20	11/24/14	\$7,229	9912	10870	\$7,928
115.0	Sprayfield Pipes MPS Pump Contoller - SCADA Power Fail Relay	5 10	6/30/17 6/30/17	\$5,965 \$1,188	10703 10703	10870 10870	\$6,058 \$1,207
178.0	Sigma Flow Meter - Analog Connections	10	6/30/17	\$2,072	10703	10870	\$2,104
	2015 Mixing Zone Study		2015	\$37,612	10035	10870	\$40,741
179.0	2017 Mixing Zone Study	5	6/30/17	\$13,234	10703	10870	\$13,440
181.0	NPDES Permit - 2016	5	6/30/17	\$10,345	10703	10870	\$10,506
190.0	Priority Pollutant Test	5	6/30/17	\$10,378	10703	10870	\$10,540
	Chronic and Acute Toxicity Tests SCADA Monitoring Alarm System (2014-2017)		2017 2017	\$7,361 \$122,348	10870 10870	10870 10870	\$7,361 \$122,348
	Sprayfield Access Road Improvements		2017	\$12,515	10870	10870	\$12,515
	ATI Chlorine & Sulfite Analyzers + Install		2017	\$21,657	10870	10870	\$21,657
© 24:	SEWAGE DISPOSAL FACILITY			\$1,407,744			\$2,001,075
@ 25:	SUBSURFACE LINES						
116.0	Sewage Lines	99	1/19/71	\$72,801	1581	10870	\$500,536
117.0	Engineering	99	8/30/71	\$72,801 \$1,003	1581 1581	10870	\$6,896
118,0	System (1972-1)	99	1/19/74	\$564,625	2020	10870	\$3,038,353
119.0	Tract #5 Sewer System (1974-1)	99	1/19/76	\$34,732	2401	10870	\$157,241
120.0	Lake Alpine Col Sys 1 Pump Station	99	1/1/76	\$502,742	2401	10870	\$2,276,054
121.0	Sewer Line	75	9/19/64	\$5,500	936	10870	\$63,873
122.0 123.0	Subsurface Lines Sewer Lateral To Lot 1-7	75 75	11/1/97	\$1,941	5838 5300	10870	\$3,614
124.0	Sewage Lines - Pain - Inst.	75 99	12/1/01 1/1/77	\$3,978 \$4,167	6390 2576	10870 10870	\$6,767 \$17,584
125.0	Sewer Lines Lissen Project	50	7/31/10	\$5,000	8844	10870	\$6,145
	ESRI ArcGIS - GIS System	30	2017	\$12,674	10870	10870	\$12,674
	NexGen AMS - Asset Management System		2017	\$13,888	10870	10870	\$13,888
	US Jetter Model 4018-75		2017	\$59,272	10870	10870	\$59,272
A 25.	CIDCIDEACE HAIFE 40 A			As 800 500			An
© 25:	SUBSURFACE LINES 12 Asset(s)			\$1,282,323			\$6,162,897

Set No.	Asset Descrip	otion <u>Lif</u>	<u>ie</u>	Date <u>Purchased</u>	Original Cost	Date Constructed ENR Construction Cost Index	Dec. 2017 ENR Construction Cost Index	Adjusted Dec 2017 Cost
© 26:	TREATMENT FACILITY	***				3		
127.0	Treatment Facility		40	1/19/71	\$27,918	1581	10870	\$191,947
128.0	Soil Test & Pollution Study		40	1/19/73	\$3,276	1895	10870	\$18,792
129.0	Treatment Plant & Disposal Syste	m	40	1/1/76	\$658,865	2401	10870	\$2,982,867
130.0	Spring Field Phase II		40	11/1/83	\$107,354	4066	10870	\$286,999
131.0	A Frame		40	9/1/83	\$2,669	4066	10870	\$7,135
132.0	Lake Alpine Col System & Pump S	tation	99	6/12/78	\$43,200	2776	10870	\$169,159
133.0	Pump, NSC		10	7/1/89	\$3,226	4615	10870	\$7,598
134.0	Comminutor		10	10/1/89	\$11,384	4615	10870	\$26,813
135.0	Pump		10	10/1/91	\$6,323	4892	10870	\$14,050
136.0	Comminutor		10	3/1/94	\$3,492	5381	10870	\$7,054
137.0	Truck		5	7/1/01	\$9,322	6404	10870	\$15,823
138.0	WWTF Sampling Equipment		10	1/1/04	\$1,388	6825	10870	\$2,211
139.0	Chlorine Safety Upgrades		5	11/1/05	\$4,405	7630 .	10870	\$6,276
140.0	Toshiba 30HP Air Compressor		10	9/5/06	\$1,329	7763	10870	\$1,861
141.0	2007 Chevy Truck		5	10/13/06	\$8,330	7883	10870	\$11,486
142.0	Chlorine Contact Tank Project		30	7/31/10	\$108,145	8844	10870	\$132,919
143.0	Chlorine Gas Detection System		10	10/1/13	\$5,420	9689	10870	
144.0	Addn'l Chlorine Gas Dection Syste	em	10	11/22/13	\$490	9666	10870	\$6,081
145.0	Addn'l Chlorine Gas Dection Syste		10	1/13/14	\$308	9664	10870	\$551 \$346
145.0	D. O. Probe		10	9/1/14	\$10,101	9870	10870	
147.0	Gardner Denver VFD Blower		15	12/9/14	\$41,437	9936	10870	\$11,124
148.0	TSS Probe		10	8/1/15	\$3,929	10039	10870	\$45,332
149.0	Lighteneing /Surge Protector - EH	í	25	11/30/15	\$3,315	10092	10870	\$4,254 \$3,571
150.0	Treatment Pond Dock		70	6/30/16	\$10,582	10337	10870	\$11,128
	(2) Paco 350 GPM Transfer Pumps	s + Install	,,	2017	\$22,486	10870	10870	
	Regal 100 PPD Chlorination System			2017	\$3,260	10870	10870	\$22,486 \$3,260
© 26:	TREATMENT FACILITY 56 Asset(s)				\$1,101,954			\$3,991,122
GRAND TOTALS					\$4,641,381		***************************************	
	- Charles				\$4,041,381			\$13,605,417
	ADMIN FACILTIES				\$351,097			\$602,147
	COLLECTION SYSTEM				\$1,282,323			\$6,162,897
y	LIFT STATIONS				\$498,264			\$848,175
	TREATMENT FACILITY				\$1,101,954			\$3,991,122
	DISPOSAL FACILITY				\$1,407,744			\$2,001,075
	TOTAL				\$4,641,381			\$13,605,417
	Manusaryayan						CURRENT EDUS:	650
							ADDITIONAL EDUS:	1196

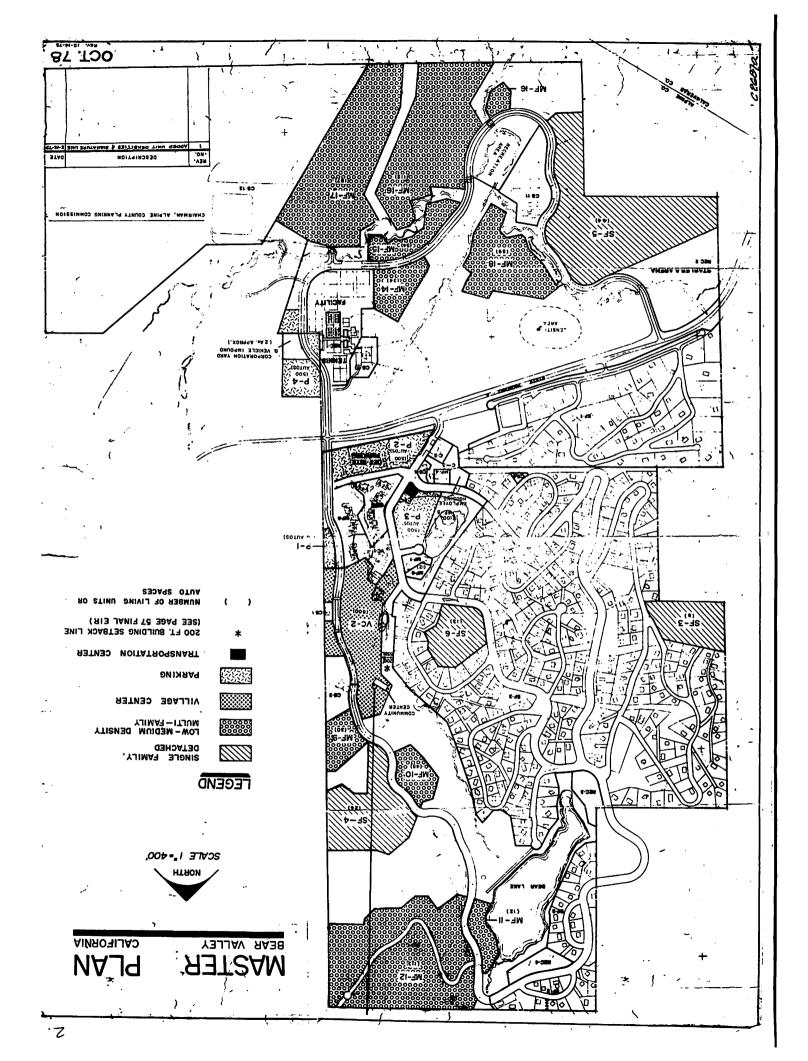
TOTAL: 1846

> BUY IN FEE: \$7,370

PROJECT SUMMARY
BEAR VALLEY DEVELOPMENT PLAN

Alpine County Public Library, P.O. Pox 1977 Markleeville, CA 98120 0187

ALPINE COUNTY
PLANNING DEPARTMENT
P. O. Box 107
MARKLEEVILLE, CA 96120



General Development Plan

	<i>i</i>	North Si	de		
Single Family Parcel	Acerage	Density	Units	Beds 6/Unit	Cars 2/Unit
SF 1	52.8	1.1	59	354	118
SF 2	200.0	1.9	389	2334	778
SF 3	6.9	1.1	8	48	16
SF 4	12.7	2.0	26	156	52
SF 6	6.2	2.1	13	78	26
Sub Total	278.6		495	2970	990
				Beds	Cars
Multi Family Parcel	1.00	Density	Units	4/Unit	1.5/Unit
Family Parcel	Acerage	Density	OHILES	4701110	213701.20
MF 1	.7	22.8	16	64	24
MF 2	3.9	15.4	60	240	90
MF 3	4.1	17.6	72	288	108
MF 4	.7	28.6	20	80	30
MF 5	5.4	18.5	100	400	150
MP 6	.5	24.0	12	48	18
MF 7					
MF 8					
MF 9	3.5	8.6	30	120	45
MF 10	3.8	11.8	45	180	68
MF 11	2.5	4.8	12	48	18
MF 12	33.1	3.4	113	452	170
MF 13					
Sub Total	58.2		480	1920	721
				Beds	Cars
Village Center	Acerage	Density	Units	2/Unit .	1/Unit
village Center	vcerade	<u> </u>			
VC 1	2.5		62	124	62
VC 2	15.2		500	1000	500
Sub Total	17.7		562	1124	562
				Beds	Cars
Commerical	Acerage	Density	Units	2/Unit	1/Unit
c ı	.1		14	28	14
C 2	.7				
C 3					
Sub Total	2.3		14	28	14
North Side Total	356.8		1551	6042	2287
80% Occupa	ancy			4834	1830

•					
Single					
amily Parcel	Acreage	Density	Units	Beds 6/Unit	Cars 2/Uni
SF 6	13.8	1.8	25	1.50	
SF 7	20.4	2.5	50	150	50
SF 8	27.4	1.0	22	300 132	100 ±
S.F. 9.	39.4	1.0	44	264	
SF 10 #	27.5	_	1	6	88 2
Sub-Total	123.1	· · · · · · · · · · · · · · · · · · ·	142	852	284
•	113.1	•	142	632	
Multi		Danaday		9 - 1 -	0
Family Parcel	Acreage	Density	Units	Beds	Cars
MF 12	4.6	7.4	34	136	·51
MF 13	4.1	13.2	54	216	81
MF 14	3.9	15.9	62	248	93
MF 15	8.9	13.7	122	488	183
MF 16	3.0	13.3	40	160	60
Sub-Total	24.5	12.7	312	1248	468
		•			
Southside Tota	<u>1</u> 147.6		454	2100	752
80% Occup	ancy			1680	602
	•	•			
Seneral			•		
Development <u>Plan Total</u>	508		2052	8414	3130
80% Occupa	ncv			6731	2504
	•			4.32	
•					
Community Serv	ices	<u> </u>			
	Substation		0.3 ac	res	
CS2 Elementa:			2.9		
	nce Center		1.6		
•	& Fire Station		0.4		
CS5 Pacific			0.2		•
CS6 Maintena			0.4	•	
	rm Parking		0.9		
CS8 Off-Site	Parking		5.0		
CS10 Heliport			2.0		
CS11 School			5.9		
CS12 Sewage T	reatment		127.6		
Pagrontia					
Recreation					
ecl Tennis F	2011114	·	13.6	•	
Rec2 Stables		•	3.3		
Rec2 Stables Rec3 Homeowne			2.2		
	Picnic Area		2.1		
nec4 beach -	LICUIC VL69		4.1		

* Not a part of this project

ORDINANCE NO. 73

BEAR VALLEY WATER DISTRICT

AN ORDINANCE AMENDING SUBSECTIONS A AND B OF SECTION 2 OF ARTICLE IV OF ORDINANCE NO.1 REVISING SEWER CAPACITY CHARGES.

WHEREAS, the Board ("Board") of Directors of the Bear Valley Water District ("District") has determined that the capacity charges for new connections should be revised, and

WHEREAS, the Board has determined that the District must revise its sewer capacity charges originally established in Article IV of Ordinance No. 1, and most recently amended by Ordinance No. 71 establishing sections 1 and 2 under Article IV establishing a connection fee and a capacity charge for new connection as set forth in Government Code Section 66013(b)(1) and (5), and (3); and

WHEREAS, the Board desires to revise the capacity charge set forth Subsection A and B of Section 2 of Article IV; and

NOW THEREFORE, the Board of Directors of the Bear Valley Water District finds, determines and resolves as follows:

- 1. The above recitals are true and correct, and are hereby incorporated as part of this Ordinance.
- 2. Subsections A and B of Section 2 of Article IV of Ordinance No. 1, and all amendments thereto, is amended as follows:
 - "A. The Capacity Charge for each residential connection permitted by the District shall be \$7,370.00.
 - B. Subject to Article IV, section 2.C, the Capacity Charge for each non-residential connection permitted by the District shall be proportionately rated to a twenty-four-fixture-unit residence following the Equivalent Drainage Fixture Unit Table in the current edition of the Uniform Plumbing Code as follows:

Capacity Charge =
$$\frac{\text{Fixture Load x } \$7,370.00}{24}$$

3. The Board finds and declares that the adoption of this ordinance and the charges established herein is exempt from the requirements of the California Environmental Act pursuant to Title 14, *California Code of Regulations* § 15273(a), and

specifically adopts and incorporates herein as part of the record and as findings those sections of the report which discuss the need for revenue, including the projected total operating expenses, the capital projects and required improvements, and specifically finds and declares that the charges established herein for the purposes specified in Title 14, *California Code of Regulations* § 15273(a)(1) through 15273(a)(4), and not to fund expansion of the sewer system.

- 4. The Secretary of the District is hereby authorized and directed to file a notice of exemption pursuant to Title 14, *California Code of Regulations* § 15062.
 - 5. This ordinance shall become effective 30 days after its passage.
- 6. Upon the effective date of this Ordinance, those portions of Ordinances predating this Ordinance that conflict with this Ordinance, are hereby repealed.

Passed and adopted at the regula Water District on	ar meeting of the Board of Directors of the Bear Valley, by the following votes:
AYES:	
NOS:	
ABSENT:	
ABSTAIN:	
ATTEST:	President Bear Valley Water District
Board Secretary Bear Valley Water District	

ORDINANCE NO. 71

BEAR VALLEY WATER DISTRICT

AN ORDINANCE AMENDING ARTICLE IV OF ORDINANCE NO. 1 AMENDING SEWER CONNECTION FEES AND CHARGES.

WHEREAS, the Board ("Board") of Directors of the Bear Valley Water District ("District") has determined that the capacity charges for new connections should be revised, and

WHEREAS, the Board has determined that the District must reduce its sewer capacity charges originally established in Article IV of Ordinance No. 1, and most recently amended by Ordinance No. 68; and

WHEREAS, the Board desires to create a separate subsection under Article IV establishing a connection fee and a capacity charge for new connection as set forth in Government Code Section 66013(b)(1) and (5), and (3); and

NOW THEREFORE, the Board of Directors of the Bear Valley Water District finds, determines and resolves as follows:

- 1. The above recitals are true and correct, and are hereby incorporated as part of this Ordinance.
- 2. Article IV of Ordinance No. 1, and all amendments thereto is amended as follows:

"Article IV"

Sewer Connection Charges

Section 1. Connection Fee. All applications for new or additional sewer service to the District's Sewer System shall submit a fully completed written application ("Connection Application") for each connection requested to the District in the form provided by the District together with payment of the following:

- A. Application Fee. Applicants shall pay a nonrefundable application administrative fee of \$100.00 for each Residential connection in the Connection Application and \$100.00 for each non-Residential connection in the Connection Application to cover the District's costs of administration of the application.
- B. The Connection Fee. The Applicant shall be responsible for retaining a licensed contractor approved by the District to make the physical connection to the District's Sewer System at the applicant's expense and shall pay the District a

Connection Fee as defined by Government Code Section 66013(b)(5) for the inspection of the physical connection for each connection applied for as follows:

- 1. \$100.00 for each Residential Connection applied for.
- 2. \$100.00 for each Non-Residential Connection applied for.

Section 2. <u>Capacity Charges</u>. All applicants for new or additional sewer service to the District's Sewer System shall pay a Capacity Charge as defined by Government Code Section 66013(b)(3) prior to issuance of a permit by the District. The Capacity Charge for each connection for existing and uncommitted sewer capacity shall be as follows:

- A. The Capacity Charge for each residential connection permitted by the District shall be \$ 5,414.00.
- B. Subject to Article IV, section 2.C, the Capacity Charge for each non-residential connection permitted by the District shall be proportionately rated to a twenty-four-fixture-unit residence following the Equivalent Drainage Fixture Unit Table in the current edition of the Uniform Plumbing Code as follows:

Capacity Charge =
$$\frac{\text{Fixture Load } \times \$5,414}{24}$$

- C. The Capacity Charge for each non-residential connection that the District determines may generate a high waste volume or impose high BOD loading shall be established by the Board of Directors and based on the projected flow and BOD load as determined by the District's Engineer or Manager.
- 3. The Board finds and declares that the adoption of this ordinance and the charges established herein is exempt from the requirements of the California Environmental Act pursuant to Title 14, California Code of Regulations § 15273(a), and specifically adopts and incorporates herein as part of the record and as findings those sections of the report which discuss the need for revenue, including the projected total operating expenses, the capital projects and required improvements, and specifically finds and declares that the charges established herein for the purposes specified in Title 14, California Code of Regulations § 15273(a)(1) through 15273(a)(4), and not to fund expansion of the sewer system.
- 4. The Secretary of the District is hereby authorized and directed to file a notice of exemption pursuant to Title 14, *California Code of Regulations* § 15062.
 - 5. This ordinance shall become effective 30 days after its passage.

predating this Ordinance that conflict with the	is Ordinance, are hereby repealed.
Passed and adopted at the regular meeting of Water District on February 23, 2015 by the f	
AYES:	
NOS:	
ABSENT:	
ABSTAIN:	
	President
ATTEST:	Bear Valley Water District
Board Secretary Bear Valley Water District	-

Upon the effective date of this Ordinance, those portions of Ordinances

6.



AGENDA ITEM

DATE: JANUARY 22, 2018

TO: BVWD BOARD OF DIRECTORS

FROM: JEFF GOUVEIA, DISTRICT GENERAL MANAGER

RE: RETIREMENT FUND MANAGEMENT SERVICE PROVIDERS

BACKGROUND:

At its October 23, 2017 meeting, the Bear Valley Water District Board of Directors agreed to enhance the District's pension program voting in favor of an expanded defined contribution plan. The review and expansion of retirement benefits is part of a larger analysis of the District's broader benefits program. The principal reasons cited for expanding retirement and other benefits include retention of current employees as well as preparing to attract future employees as retirement age approaches for several key personnel.

In order to support an enhanced defined contribution program, the District's current retirement plan must be replaced with a program sufficient to meet the new program's goals and objectives. The current SIMPLE IRA retirement program, initiated by the District in 2006, limits by statute the amount an employer may match of an employee's deferred compensation to no more than 3% of the employee's compensation.

Since the Board voted in October to contribute both a 3% "grant" of each qualifying employee's compensation and up to a 3% match of each qualifying employee's deferred compensation into the employee's retirement plan (up to 6%), the SIMPLE IRA plan is simply insufficient to provide for the increased employer contribution rate as well as to allow for potentially higher defined contribution rates in the future.

Therefore, on behalf of the District, the General Manager solicited proposals from three (3) reputable public-sector retirement plan service providers responsible for administrative, record keeping, education, and investment services designed to meet the needs of public-sector plan participants.

The firms contacted and solicited for proposals included:

- Public Agency Retirement Services (PARS) Newport Beach, CA Tel: (800) 540-6369
- Inter'l City/County Mgt. Assoc. Retirement Corp. (ICMA-RC) San Jose, CA Tel: (408) 360-8752
- NFP Retirement (Nimble, Fantastic, Personal) Chicago, IL Tel: 312.683.7163

The Scope of Work requested of the three (3) plan service providers consisted of:

- Recommendations for retirement plans which ensure compliance with IRS guidelines under both the Employee Retirement Income Security Act (ERISA) and the California Public Employees' Pension Reform Act (PEPRA) for public employers
- Evaluation of plans that ensure IRS compliance with the District's concurrent Section 218 agreement with the Social Security Administration
- Evaluation of retirement plans to maximize flexibility for employer and employee contribution rates
- Consideration for retirement plan design to maximize employer contribution limits under the tax code as well as to maximize employee deferred compensation limits

In addition to this requested scope of work, information was provided regarding the District's estimated contribution amounts and policies concerning full and part time employment at the District.



Retirement plans established for the benefit of governmental employees generally function in ways similar to those covering private employers. However, after May 6, 1986, state and local governments became ineligible to adopt the most popular private sector plan, Section 401(k) plans, except for rural cooperatives, Indian tribal entities or grandfathered plans established prior to that date.

In addition, effective July 2, 1991, Congress made social security coverage mandatory for state and local government employees who are neither covered by a Section 218 Agreement nor qualifying participants in a public retirement system. Under this provision, state and local governments can provide employees with membership in a public retirement system as an alternative to mandatory social security coverage. Employees may also be covered by both a public retirement system and social security under a Section 218 Agreement. The District entered into a Section 218 Agreement with the social security administration effective July 1, 1988 and the District's employees are currently covered under both social security as well as the current SIMPLE IRA retirement plan.

The following public employer plans qualify as governmental retirement plans and almost all governmental plans are covered under one of these Sections.

- Section 401(a) Qualified Plan
- Section 403(b) Annuity for public schools and 501(c)(3) organizations
- Section 457(b) Nonqualified, eligible deferred compensation plans for state and local governments and tax-exempt organizations
- Section 457(f) Nonqualified, ineligible deferred compensation plans, benefits are subject to income tax upon vesting

RECOMMENDATION:

The proposals received from the three (3) firms solicited are responsive to the request and appear to provide the requested deliverables in order to assist the District in the selection of an appropriate retirement management solution. Each of the firms appear to have similar experience and qualifications with retirement management service administration in California and offer licensed and experienced professionals for the administration of the District's retirement fund assets. The below recommendation is based most significantly on the short and long term fiscal impact on both the District and its employees of adopting the retirement program.

ICMA-RC provides a range of services to public employers and employees for the operation of employee retirement plans including but not limited to communications concerning investment alternatives, account maintenance, account recordkeeping, investment and tax reporting, transaction processing, benefit disbursement, and asset management.

ICMA-RC has over 6,000 agencies across the country including many California public agencies such as the Alameda County Water District, Northern California Power Authority (NCPA), City of Roseville, City of Elk Grove, County of Butte, City of Yuba City and the Contra Costa Water District.

Based on the overall responsiveness of the ICMA-RC proposal, their experience with administering public agency retirement management services and the cost of service when compared to the other proposals, it is recommended that the District consider accepting the ICMA-RC proposal.

The proposed budget for the Scope of Work presented by ICMA-RC is detailed on the attached comparative cost memorandum.



ACTION:

- 1. Motion to Accept the proposal from ICMA-RC for retirement management services
- 2. Motion to Approve ICMA-RC's:
 - a. 401 Money Purchase Plan Suggested Resolution
 - b. 457 Plan Suggested Resolution

- Attachments: Public Agency Retirement Services (PARS) Proposal
 - NFP Retirement (Nimble, Fantastic, Personal) Proposal
 - BVWD Retirement Fund Management Comparative Cost Memorandum
 - Inter'l City/County Mgt. Assoc. Retirement Corp. (ICMA-RC) Proposal - ICMA-RC 401 Money Purchase Plan Suggested Resolution
 - ICMA-RC 457 Plan Suggested Resolution
 - ICMA-RC Administrative Services Agreement

Management Fee Summary Comparison							
			Avg Inv Expense				
Firm	Start Up Fees	Admin Fees	+ Other Fees				
ICMA-RC	\$0	0.55%	0.85%				
PARS	\$1,500	0.50% (Subject to Min)	0.81%				
NFP	\$775	\$825 / yr	0.19 % + Asset Fee				
			0 - 250K = 2.0%				
			250 - 500k = 1.99 %				
			500 - 750k 1.69 %				
			750 - 1.0M = 1.49 %				

			Scenarios				
	Year 1	Year 2	Year 4	Year 8	Year 13	Year 17	Year 20
	\$25,000	\$50,000	\$100,000	\$250,000	\$500,000	\$750,000	\$1,000,000
Admin (ER Paid)	138	275	550	1,375	2,750	4,125	5,500
Inv Exp (EEs Paid)	213	425	850	2125	4250	6375	8500
Total	350	700	1,400	3,500	7,000	10,500	14,000
Admin (ER Paid)	7200	7200	7200	7200	7200	7200	7200
Inv Exp (EEs Paid)	203	405	810	2025	4050	6075	8100
Total	7,403	7,605	8,010	9,225	11,250	13,275	15,300
Admin (ER Paid)	825	825	825	825	825	825	825
Inv Exp (EEs Paid)	548	1,095	2,190	4,975	8,450	11,175	14,900
Total	1,373	1,920	3,015	5,800	9,275	12,000	15,725

	Avg			9%	
	Investment Exp	Admin Fee	7.00%	Annual	
	(EE Paid)	(ER PAID)	Market Return	Contr Rate	Year
	\$213	\$138	\$1,750	\$25,000	1
	\$440	\$285	\$3,623	\$51,750	2
\$1	\$683	\$442	\$5,626	\$80,373	3
\$1	\$943	\$610	\$7,770	\$110,999	4
\$2	\$1,222	\$791	\$10,064	\$143,768	5
\$2	\$1,520	\$984	\$12,518	\$178,832	6
\$3	\$1,839	\$1,190	\$15,145	\$216,351	7
\$3	\$2,180	\$1,411	\$17,955	\$256,495	8
\$4	\$2,545	\$1,647	\$20,961	\$299,450	9
\$4	\$2,936	\$1,900	\$24,179	\$345,411	10
\$5	\$3,354	\$2,170	\$27,621	\$394,590	11
\$6	\$3,801	\$2,460	\$31,305	\$447,211	12
\$7	\$4,280	\$2,769	\$35,246	\$503,516	13
\$7	\$4,792	\$3,101	\$39,463	\$563,762	14
\$8	\$5,340	\$3,455	\$43,976	\$628,226	15
\$9	\$5,926	\$3,835	\$48,804	\$697,201	16
\$10	\$6,554	\$4,241	\$53,970	\$771,005	17
\$11	\$7,225	\$4,675	\$59,498	\$849,976	18
\$13	\$7,943	\$5,140	\$65,413	\$934,474	19
\$14	\$8,712	\$5,637	\$71,742	\$1,024,887	20

BVWD - Illustration based on an Annual Salary of \$50,000				
Contribution Type	% of Salary	Annual Contribution		
BVWD Base Contribution ("Grant") to 401(a)	3%	\$1,500		
Employee contribution to 457(b)	3%	\$1,500		
BVWD "Matching" Contribution to 401(a)	3%	\$1,500		
TOTAL	9%	\$4,000		

RESOLUTION FOR A LEGISLATIVE BODY RELATING TO A MONEY PURCHASE PLAN

RESOLUTION OF	(EMPLOYER NAME)
	PLAN NUMBER 10
WHEREAS, the Employer has employees rendering	valuable services; and
WHEREAS, the establishment of a money purchase funds for their beneficiaries in the event of death; and	retirement plan benefits employees by providing funds for retirement and
	chase retirement plan be administered by ICMA-RC and that the funds established by public employers for the collective investment of funds held ns:
NOW THEREFORE BE IT RESOLVED that the Eplan (the "Plan") in the form of: (Select one)	imployer hereby establishes or has established a money purchase retirement
The ICMA Retirement Corporation Govern of the Adoption Agreement (executed copy a	mental Money Purchase Plan & Trust, pursuant to the specific provisions ttached hereto).
☐ The Plan and Trust provided by the Employ	er (executed copy attached hereto).
The Plan shall be maintained for the exclusive benefit	of eligible employees and their beneficiaries; and
	ereby adopts the Declaration of Trust of VantageTrust, intending this nt or deferred compensation plan subsequently established by the Employer rust.
BE IT FURTHER RESOLVED that the Employer h under the Plan in VantageTrust; and	ereby agrees to serve as trustee under the Plan and to invest funds held
BE IT FURTHER resolved that the	(use title of official,
not name) shall be the coordinator for the Plan; shall re	ceive reports, notices, etc., from ICMA Retirement Corporation or y required votes under VantageTrust; may delegate any administrative duties
BE IT FURTHER RESOLVED that the Employer h necessary agreements with ICMA Retirement Corpor	ereby authorizes (use title not name) to execute all ation incidental to the administration of the Plan.
I,, Clerk of the (City, Couresolution proposed by (Council Member, Trustee, etc.) of the (City, County, etc.) this day of	tinty, etc.) of, do hereby certify that the foregoing c.) of, was duly passed and adopted .) of at a regular meeting thereof assembled, 20, by the following vote:
AYES:	
NAYS:	
ABSENT:	
(SEAL)	
	Clerk of the (City, County, etc.)

SUGGESTED RESOLUTION FOR A LEGISLATIVE BODY RELATING TO A 457 DEFERRED COMPENSATION PLAN

	Account Number 30
Name of Employer:	State:
Title of Program Coordinator:(see definition below for duties of Prog	
(see definition below for duties of Prog Resolution of the above named Employer ("Employer")	ram Coordinator)
Resolution of the above named Employer (Employer)	
WHEREAS, the Employer has employees rendering valuable services;	and
WHEREAS, the establishment of a deferred compensation plan for su to provide reasonable retirement security for its employees, by providi by assisting in the attraction and retention of competent personnel; ar	ing increased flexibility in its personnel management system, and
WHEREAS, the Employer has determined that the establishment of a Retirement Corporation serves the above objectives; and	a deferred compensation plan to be administered by the ICMA
WHEREAS, the Employer desires that its deferred compensation plan some or all of the funds held under such plan be invested in Vantaginvestment of funds held under their retirement and deferred compens	eTrust, a trust established by public employers for the collective
NOW THEREFORE BE IT RESOLVED that the Employer hereby adopts tone)	he deferred compensation plan (the "Plan") in the form of: (Select
☐ The ICMA Retirement Corporation Deferred Compensation Pl	an and Trust, referred to as Appendix A
☐ The plan provided by the Employer (executed copy attached	hereto).
BE IT FURTHER RESOLVED that the Employer hereby adopts the Deck intending this adoption to be operative with respect to any retirement Employer, if the assets of the plan are to be invested in VantageTrust.	aration of Trust of VantageTrust, attached hereto as Appendix B, or deferred compensation plan subsequently established by the
BE IT FURTHER RESOLVED that the assets of the Plan shall be held in tr of the Plan participants and their beneficiaries, and the assets shall no	ust, with the Employer serving as trustee, for the exclusive benefit of be diverted to any other purpose.
BE IT FURTHER RESOLVED that the Employer hereby agrees to serve o	is trustee under the Plan.
BE IT FURTHER RESOLVED that the	(use title of official, not name) shall be the coordinator
for this program; shall receive necessary reports, notices, etc. from IC/ of the Employer, any required votes under VantageTrust; Administrative departments, and is authorized to execute all necessary agreements wor of the Plan.	MA Retirement Corporation or VantageTrust; shall cast, on behalf e duties to carry out the plan may be assigned to the appropriate
,,Clerk of the (City, County, etc.) of by, in the (Council Member, Trustee, etc.) of Board, etc.) of the (City, County, etc.) ofat regular 20, by the following vote:	, do hereby certify that the foregoing resolution, proposed was duly passed and adopted in the (Council, meeting thereof assembled this day of,
AYES:	
NAYS:	
ABSENT:	
(Seal)	
	Clerk of the (City, County, etc.)

3

ADMINISTRATIVE SERVICES AGREEMENT

Between

ICMA Retirement Corporation

and

Bear Valley Water District

Type: 457

Account #: 307544

Type: 401

Account #: 109698

ADMINISTRATIVE SERVICES AGREEMENT

This Administrative Services Agreement ("Agreement"), made as of the day of , 20____ between the International City Management Association Retirement Corporation ("ICMA-RC"), a nonprofit corporation organized and existing under the laws of the State of Delaware, and the Bear Valley Water District ("Employer"), an Entity organized and existing under the laws of the State of California with an office address of P.O. Box 5027, Bear Valley, California 95223.

RECITALS

Employer acts as public plan sponsor of a retirement plan ("Plan"), and in that capacity, has responsibility to obtain administrative services and investment alternatives for the Plan;

VantageTrust is a group trust established and maintained in accordance with New Hampshire Revised Statutes Annotated section 391:1 and Internal Revenue Service Revenue Ruling 81-100, 1981-1 C.B. 326, which provides for the commingled investment of retirement funds;

ICMA-RC acts as investment adviser to VantageTrust Company, LLC, the Trustee of VantageTrust;

ICMA-RC has designed, and VantageTrust offers, a series of separate funds (the "Funds") for the investment of plan assets as referenced in VantageTrust's principal disclosure documents, the VantageTrust Disclosure Memorandum and the Funds' Fact Sheets (together, "VT Disclosures"); and

In addition to serving as investment adviser to VantageTrust Company LLC, ICMA-RC provides a range of services to public employers for the operation of employee retirement plans including, but not limited to, communications concerning investment alternatives, account maintenance, account recordkeeping, investment and tax reporting, transaction processing, benefit disbursement, and asset management.

AGREEMENTS

1. Appointment of ICMA-RC

Employer hereby appoints ICMA-RC as Administrator of the Plan to perform all nondiscretionary functions necessary for the administration of the Plan. The functions to be performed by ICMA-RC shall be those set forth in Exhibit A to this Agreement.

2. Adoption of Trust

Employer has adopted the Declaration of Trust of VantageTrust Company and agrees to the commingled investment of assets of the Plan within VantageTrust. Employer agrees that the investment, management, and distribution of amounts deposited in VantageTrust shall be subject to the Declaration of Trust, as it may be amended from time to time and shall also be subject to terms and conditions set forth in disclosure documents (such as the VT Disclosures or Employer Bulletins) as those terms and conditions may be adjusted from time to time.

3. Employer Duty to Furnish Information

Employer agrees to furnish to ICMA-RC on a timely basis such information as is necessary for ICMA-RC to carry out its responsibilities as Administrator of the Plan, including information needed to allocate individual participant accounts to Funds in VantageTrust, and information as to the employment status of participants, and participant ages, addresses, and other identifying information (including tax identification numbers). Employer also agrees that it will notify ICMA-RC in a timely manner regarding changes in staff as it relates to various roles. This is to be completed through the online EZLink employer contact options. ICMA-RC shall be entitled to rely upon the accuracy of any information that is furnished to it by a responsible official of the Employer or any information relating to an individual participant or beneficiary that is furnished by such participant or beneficiary, and ICMA-RC shall not be responsible for any error arising from its reliance on such information. ICMA-RC will provide reports, statements and account information to the Employer through EZLink, the online plan administrative tool.

Employer is required to send in contributions through EZLink, the online plan administration tool provided by ICMA-RC. Alternative electronic methods may be allowed, but must be approved by ICMA-RC for use. Contributions may not be sent through paper submittal documents.

To the extent Employer selects third-party funds that do not have fund profile information provided to ICMA-RC through our electronic data feeds from external sources (such as Morningstar) or third party fund providers, the Employer is responsible for providing to ICMA-RC timely fund investment updates for disclosure to Plan participants. Such updates may be provided to ICMA-RC through the Employer's investment consultant or other designated representative.

Failure to provide timely fund profile update information, including the source of the information, may result in a lack of fund information for participants, as ICMA-RC will remove outdated fund profile information from the systems that provide fund information to Plan participants.

4. <u>Certain Representations and Warranties</u>

ICMA-RC represents and warrants to Employer that:

- (a) ICMA-RC is a non-profit corporation with full power and authority to enter into this Agreement and to perform its obligations under this Agreement. The ability of ICMA-RC to serve as investment adviser to VantageTrust is dependent upon the continued willingness of VantageTrust for ICMA-RC to serve in that capacity.
- (b) ICMA-RC is an investment adviser registered as such with the U.S. Securities and Exchange Commission under the Investment Advisers Act of 1940, as amended.
- (c)(i) ICMA-RC shall maintain and administer the Plan in accordance with the requirements for eligible deferred compensation plans under Section 457 of the Internal Revenue Code and other applicable federal law; provided, however, that ICMA-RC shall not be responsible for the eligible status of the Plan in the event that the Employer directs ICMA-RC to administer the Plan or disburse assets in a manner inconsistent with the requirements of Section 457 or otherwise causes the Plan not to be carried out in accordance with its terms. Further, in the event that the Employer uses its own customized plan document, ICMA-RC shall not be responsible for the eligible status of the Plan to the extent affected by terms in the Employer's plan document that differ from those in ICMA-RC's standard plan document. ICMA-RC shall not be responsible for monitoring state or local law applicable to retirement plans or for administering the Plan in compliance with local or state requirements unless Employer notifies ICMA-RC of any such local or state requirements.
- (c)(ii) ICMA-RC shall maintain and administer the Plan in accordance with the requirements for plans which satisfy the qualification requirements of Section 401 of the Internal Revenue Code and other applicable federal law; provided, however, ICMA-RC shall not be responsible for the qualified status of the Plan in the event that the Employer directs ICMA-RC to administer the Plan or disburse assets in a manner inconsistent with the requirements of Section 401 or otherwise causes the Plan not to be carried out in accordance with its terms; provided, further, that if the plan document used by the Employer contains terms that differ from the terms of ICMA-RC's standardized plan document, ICMA-RC shall not be responsible for the qualified status of the Plan to the extent affected by the differing terms in the Employer's plan document. ICMA-RC shall not be

responsible for monitoring state or local law or for administering the Plan in compliance with local or state requirements unless Employer notifies ICMA-RC of any such local or state requirements.

Employer represents and warrants to ICMA-RC that:

- (d) Employer is organized in the form and manner recited in the opening paragraph of this Agreement with full power and authority to enter into and perform its obligations under this Agreement and to act for the Plan and participants in the manner contemplated in this Agreement. Execution, delivery, and performance of this Agreement will not conflict with any law, rule, regulation or contract by which the Employer is bound or to which it is a party.
- (e) Employer understands and agrees that ICMA-RC's sole function under this Agreement is to act as recordkeeper and to provide administrative, investment or other services at the direction of Plan participants, the Employer, its agents or designees in accordance with the terms of this Agreement. Under the terms of this Agreement, ICMA-RC does not render investment advice, is not the Plan Administrator or Plan Sponsor as those terms are defined under applicable federal, state, or local law, and does not provide legal, tax or accounting advice with respect to the creation, adoption or operation of the Plan and its related trust. ICMA-RC does not perform any service under this Agreement that might cause ICMA-RC to be treated as a "fiduciary" of the Plan under applicable law, except, and only, to the extent that ICMA-RC provides investment advisory services to individual participants enrolled in Guided Pathways.
- (f) Employer acknowledges and agrees that ICMA-RC does not assume any responsibility with respect to the selection or retention of the Plan's investment options. Employer shall have exclusive responsibility for the Plan's investment options, including the selection of the applicable mutual fund share class. Where applicable, Employer understands that the VT Retirement IncomeAdvantage Fund is an investment option for the Plan and that the fund invests in a separate account available through a group variable annuity contract. By entering into this Agreement, Employer acknowledges that it has received the Important Considerations document and the VT Disclosures and that it has read the information therein concerning the VT Retirement IncomeAdvantage Fund.
- (g) Employer acknowledges that certain such services to be performed by ICMA-RC under this Agreement may be performed by an affiliate or agent of ICMA-RC pursuant to one or more other contractual arrangements or relationships, and that ICMA-RC reserves the right to change vendors with which it has contracted to provide services in connection with this Agreement without prior notice to Employer.

- (h) Employer acknowledges that it has received ICMA-RC's Fee Disclosure Statement, prepared in substantial conformance with ERISA regulations regarding the disclosure of fees to plan sponsors.
- (i) Employer approves the use of its Plan in ICMA-RC external media, publications and materials. Examples include press releases announcements and inclusion of the general plan information in request for proposal responses.

5. <u>Participation in Certain Proceedings</u>

The Employer hereby authorizes ICMA-RC to act as agent, to appear on its behalf, and to join the Employer as a necessary party in all legal proceedings involving the garnishment of benefits or the transfer of benefits pursuant to the divorce or separation of participants in the Plan. Unless Employer notifies ICMA-RC otherwise, Employer consents to the disbursement by ICMA-RC of benefits that have been garnished or transferred to a former spouse, current spouse, or child pursuant to a domestic relations order or child support order.

6. Compensation and Payment

- (a) Plan Administration Fee. The amount to be paid for plan administration services under this Agreement shall be 0.55% per annum of the amount of Plan assets invested in VantageTrust. Such fee shall be computed based on average daily net Plan assets in VantageTrust.
- (b) Compensation for Management Services to VantageTrust, Compensation for Advisory and other Services to the VT III Vantagepoint Funds and Payments from Third-Party Mutual Funds. Employer acknowledges that, in addition to amounts payable under this Agreement, ICMA-RC receives fees from VantageTrust for investment advisory services and plan and participant services furnished to VantageTrust. Employer further acknowledges that ICMA-RC, including certain of its wholly owned subsidiaries, receives compensation for advisory and other services furnished to the VT III Vantagepoint Funds, which serve as the underlying portfolios of a number of Funds offered through VantageTrust. For a VantageTrust Fund that invests substantially all of its assets in a third-party mutual fund not affiliated with ICMA-RC, ICMA-RC or its wholly owned subsidiary receives payments from the third-party mutual fund families or their service providers in the form of 12b-1 fees, service fees, compensation for sub-accounting and other services provided based on assets in the underlying third-party mutual fund. These fees are described in the VT Disclosures and ICMA-RC's fee disclosure statement. In addition, to the extent that third party mutual funds are included in the investment line-up for the Plan, ICMA-RC receives administrative fees from its third party mutual fund settlement

and clearing agent for providing administrative and other services based on assets invested in third party mutual funds; such administrative fees come from payments made by third party mutual funds to the settlement and clearing agent.

- (c) Redemption Fees. Redemption fees imposed by outside mutual funds in which Plan assets are invested are collected and paid to the mutual fund by ICMA-RC. ICMA-RC remits 100% of redemption fees back to the specific mutual fund to which redemption fees apply. These redemption fees and the individual mutual fund's policy with respect to redemption fees are specified in the prospectus for the individual mutual fund and referenced in the VT Disclosures.
- (d) Payment Procedures. All payments to ICMA-RC pursuant to this Section 6 shall be made from Plan assets held by VantageTrust or received from third-party mutual funds or their service providers in connection with Plan assets invested in such third-party mutual funds, to the extent not paid by the Employer. The amount of Plan assets administered by ICMA-RC shall be adjusted as required to reflect any such payments as are made from the Plan. In the event that the Employer agrees to pay amounts owed pursuant to this Section 6 directly, any amounts unpaid and outstanding after 30 days of invoice to the Employer shall be withdrawn from Plan assets.

The compensation and payment set forth in this Section 6 are contingent upon the Employer's use of ICMA-RC's EZLink system for contribution processing and submitting contribution funds by ACH or wire transfer on a consistent basis over the term of this Agreement.

7. Contribution Remittance

Employer understands that amounts invested through VantageTrust are to be remitted directly to VantageTrust in accordance with instructions provided to Employer by ICMA-RC and are not to be remitted to ICMA-RC. In the event that any check or wire transfer is incorrectly labeled or transferred to ICMA-RC, ICMA-RC may return it to Employer with proper instructions.

8. Indemnification

ICMA-RC shall not be responsible for any acts or omissions of any person with respect to the Plan or its related trust, other than ICMA-RC in connection with the administration or operation of the Plan. Employer shall indemnify ICMA-RC against, and hold ICMA-RC harmless from, any and all loss, damage, penalty, liability, cost, and expense, including without limitation, reasonable attorney's fees, that may be incurred by, imposed upon, or asserted against ICMA-RC by reason of any claim, regulatory proceeding, or litigation arising from any act done or omitted to be done by any individual or person with respect to the Plan or its related trust, excepting only any and all loss, damage,

penalty, liability, cost or expense resulting from ICMA-RC's negligence, bad faith, or willful misconduct.

9. Term

This Agreement shall be in effect and commence on the date all parties have signed and executed this Agreement ("Inception Date"). This Agreement may be terminated without penalty by either party on sixty days advance notice in writing to the other; provided however, that the Employer understands and acknowledges that, in the event the Employer terminates this Agreement (or replaces the VT PLUS Fund as an investment option in its investment line-up), ICMA-RC retains full discretion to release Plan assets invested in the VT PLUS Fund in an orderly manner over a period of up to 12 months from the date ICMA-RC receives written notification from the Employer that it has made a final and binding selection of a replacement for ICMA-RC as administrator of the Plan (or a replacement investment option for the VT PLUS Fund).

10. Amendments and Adjustments

- (a) This Agreement may be amended by written instrument signed by the parties.
- (b) ICMA-RC may amend this agreement by providing 60 days' advance written notice to the Employer prior to the effective date of such proposed amendment. Such amendment shall become effective unless, within the 60-day notice period, the Employer notifies ICMA-RC in writing that it objects to such amendment.
- (c) The parties agree that enhancements may be made to administrative and operations services under this Agreement. The Employer will be notified of enhancements through the Employer Bulletin, quarterly statements, electronic messages or special mailings. Likewise, if there are any reductions in fees, these will be announced through the Employer Bulletin, quarterly statement, electronic messages or special mailing.

11. Notices

All notices required to be delivered under this Agreement shall be in writing and shall be delivered, mailed, e-mailed or faxed to the location of the relevant party set forth below or to such other address or to the attention of such other persons as such party may hereafter specify by notice to the other party.

ICMA-RC: Legal Department, ICMA Retirement Corporation, 777 North Capitol Street, N.E., Suite 600, Washington, D.C., 20002-4240 Facsimile; (202) 962-4601

Employer: at the office set forth in the first paragraph hereof, or to any other address, facsimile number or e-mail address designated by the Employer to receive the same by written notice similarly given.

Each such notice, request or other communication shall be effective: (i) if given by facsimile, when transmitted to the applicable facsimile number and there is appropriate confirmation of receipt; (ii) if given by mail or e-mail, upon transmission to the designated address with no indication that such address is invalid or incorrect; or (iii) if given by any other means, when actually delivered at the aforesaid address.

12. Complete Agreement

This Agreement shall constitute the complete and full understanding and sole agreement between ICMA-RC and Employer relating to the object of this Agreement and correctly sets forth the complete rights, duties and obligations of each party to the other as of its date. This Agreement supersedes all written and oral agreements, communications or negotiations among the parties. Any prior agreements, promises, negotiations or representations, verbal or otherwise, not expressly set forth in this Agreement are of no force and effect.

13. Titles

The headings of Sections of this Agreement and the headings for each of the attached schedules are for convenience only and do not define or limit the contents thereof.

14. Incorporation of Schedules

All Schedules (and any subsequent amendments thereto), attached hereto, and referenced herein, are hereby incorporated within this Agreement as if set forth fully herein.

15. Governing Law

This Agreement shall be governed by and construed in accordance with the laws of the State of California, applicable to contracts made in that jurisdiction without reference to its conflicts of laws provisions.

Plan numbers 307544, 109698

In Witness Whereof, the parties hereto certify that they have read and understand this Agreement and all Schedules attached hereto and have caused this Agreement to be executed by their duly authorized officers as of the Inception Date first above written.

BEAR VALLEY WATER DISTRICT

Signature/Date
Name and Title (Please Print)

INTERNATIONAL CITY MANAGEMENT ASSOCIATION RETIREMENT CORPORATION

Erica McFarquhar Assistant Secretary

Please return an executed copy of the Agreement to a Delivery Address, either:

(a) Electronically to PlanAdoptionServices@icmarc.org, or

(b) In paper form to

ICMA-RC

ATTN: PLAN ADOPTION SERVICES

777 North Capitol Street NE

Suite 600

Washington DC 20002-4240

Exhibit A

Administrative Services

The administrative services to be performed by ICMA-RC under this Agreement shall be as follows:

- (a) Participant enrollment services, including providing a welcome package and enrollment kit containing instructions and notices necessary to implement the Plan's administration. Employees will enroll online or through a paper form. ICMA-RC will provide an enrollment link through the general ICMA-RC web site as appropriate. Employer will also make available the online enrollment link in their Intranet site or via email to new employees. Employer can also enroll employees through EZLink.
- (b) Establishment of participant accounts for each employee participating in the Plan for whom ICMA-RC receives appropriate enrollment instructions. ICMA-RC is not responsible for determining if such Plan participants are eligible under the terms of the Plan.
- (c) Allocation in accordance with participant directions received in good order of individual participant accounts to investment funds offered under the Plan.
- (d) Maintenance of individual accounts for participants reflecting amounts deferred, income, gain or loss credited, and amounts distributed as benefits.
- (e) Maintenance of records for all participants for whom participant accounts have been established. These files shall include enrollment instructions (provided to ICMA-RC through Account Access or EZLink), beneficiary designation instructions and all other and documents concerning each participant's account.
- (f) Provision of periodic reports to the Employer through EZLink.

 Participants will have access to account information through Investor

 Services, Voice Response System, Account Access and through quarterly

 statements that can be delivered electronically through Account Access or

 by postal service.
- (g) Communication to participants of information regarding their rights and elections under the Plan.
- (h) Making available Investor Services Representatives through a toll-free telephone number from 8:30 a.m. to 9:00 p.m. Eastern Time, Monday through Friday (excluding holidays and days on which the securities markets or ICMA-RC are closed for business (including emergency closings), to assist participants.
- (i) Making available access to ICMA-RC's web site, to allow participants to access certain account information and initiate plan transactions at any

3

- time. Account access is normally available 24 hours a day, seven days a week except during scheduled maintenance periods designed to ensure high-quality performance. The scheduled maintenance window is outlined at https://harperl.icmarc.org/login.jsp.
- (j) Maintaining the security and confidentiality of client information through a system of controls including but not limited to, as appropriate: restricting plan and participant information only to those who need it to provide services, software and hardware security, access controls, data back-up and storage procedures, non-disclosure agreements, security incident response procedures, and audit reviews.
- (k) Making available access to ICMA-RC's plan sponsor EZLink web site to allow plan sponsors to access certain plan information and initiate plan transactions such as enrolling participants and managing contributions at any time. EZLink is normally available 24 hours a day, seven days a week except during scheduled maintenance periods designed to ensure highquality performance. The scheduled maintenance window is outlined at https://harperl.icmarc.org/login.jsp
- (l) Distribution of benefits as agent for the Employer in accordance with terms of the Plan. Participants who have separated from service can request distributions through Account Access or via form.
- (m) Upon approval by the Employer that a domestic relations order is an acceptable qualified domestic relations order under the terms of the Plan, ICMA-RC will establish a separate account record for the alternate payee and provide for the investment and distribution of assets held there under.
- (n) Loans may be made available on the terms specified in the Loan Guidelines, if loans are adopted by the Employer. Participants can request loans through Investor Services or Account Access.
- (o) Guided Pathways Participant Advice and Guidance may be made available through a third party vendor on the terms specified on ICMA-RC's website.
- (p) ICMA-RC will determine appropriate delivery method (electronic and/or print) for plan sponsor/participant communications and education based on a number of factors (audience, effectiveness, etc.).



AGENDA ITEM

DATE: JANUARY 22, 2018

TO: BVWD BOARD OF DIRECTORS

FROM: JEFF GOUVEIA, DISTRICT GENERAL MANAGER

RE: MONTHLY OPERATIONS REPORT

- 1. Collections, Treatment & Disposal Operations Update
 - a. Flows Influent Flows & Pond Transfers
 - a. Volumes Storage, Capacity & Disposal
- 2. Permit Compliance & Monitoring & Reporting Programs (MRPs) Update
 - a. WDR MRP Land Discharge Permit Compliance & Reporting Update
 - i. Tri-Annual Groundwater Monitoring
 - i. 2nd Tri Annual Report Submitted On-Time October 30, 2017
 - ii. 3rd Tri Annual Report Submitted On-Time January 16, 2018
 - iii. Annual Operations Report Draft Prepared Due Jan 31
 - b. NPDES MRP Surface Water Discharge Permit Compliance & Reporting Update
 - i. Annual Operations Report Draft Prepared Due Jan 31

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

September 2017	September 2016	September 2015
.769 / 123.4%	.623 / 90.2%	.691 / 115.9%
October 2017	October 2016	October 2015
.466 / 68.8%	.677 / 140.2%	.483 / 105.7%
November 2017	November 2016	November 2016
1.335 / 135.0%	.989 / 179.5%	.551 / 115.8%
December 2017	December 2016	December 2015
1.571 / 54.2%	2.900 / 311.8%	.930 / 80.2%
January 1-17 2018	January 2017	January 2016
1.392	4.713 / 339.6%	1.388 / 89.5%

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

September 2017	September 2016	September 2015
1.175 / 2.84.5%	.413 / 113.2%	.365 / 187.2%
October 2017	October 2016	October 2015
.623 / 37.7%	1.653 / 102.4%	1.614 / 198.0%
November 2017	November 2016	November 2015
2.452 / 228.1%	1.075 / 126.9%	.847 / 180.2%.
December 2017	December 2016	December 2015
1.262 / 24.9%	5.074 / 159.3%	3.185 / 184.6%
January 1-17 2018	January 2017	January 2016
2.109	7.515 / 749.3%	1.003 / 73.9%

Land Application Annual Totals - MG Applied / % change previous yr

<u>2017</u>	<u>2016</u>	<u>2015</u>
16.051 / 30.5%	52.572 / 215.4%	24.408 / 112.8%

2017 Land Application Began July 1 and Ended September 29

Discharge Effluent Flow Totals - MG

March 2017	April 2017	May 2017	June 2017	Total 2017 Discharge	
15.8	29.9	29.7	16.9	92.3	

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

•	(p
0	Empty (minimum pool)	= 7063.0' = 0 MG = 0'
0	Total Depth (w/2' Freeboard)	= 7086.3' = 76.45 MG = 23.3'
0	Total Depth (spillway)	= 7088.3' = 85.86 MG = 25.3'
0	Discharge Point (DP) Removed from New Permit	= 7080.4' = 51.06 MG = 17.4'
	Reached DP 6/2/16	= 7081.9' = 57.16 MG = 18.9'
	Did not reach DP 2015	= N/A
	Did not reach DP 2014	= N/A
	Did not reach DP 2013	= N/A
0	Permitted Full Reservoir (2' Freeboard)	= 7086.3' = 76.45 MG = 100%
	■ 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%
	 Highest Level 2015 – 5/21/15 	= 7070.1' = 15.48 MG = 20.2%
	 Highest Level 2014 – 5/8/14 	= 7072.3' = 21.93 MG = 28.7%
	 Highest Level 2013 – 5/16/13 	= 7073.5' = 25.84 MG = 33.8%
	 Highest Level 2012 – 5/10/12 	= 7078.6' = 44.03 MG = 57.6%
	 Highest Level 2011 – 7/10/11 	= $7084.47'$ = 112.42 MG = 106.2% (1974 capacity curve in use until 12/11)

Current Storage Volume = 7069.5 = 13.38 MG = 17.5% (1/18/2018)

Reached Minimum Pool on 10/3/17

= 7076.0 = 34.41 MG = 45% 1 Year Ago

(1/19/2017)





Central Valley Regional Water Quality Control Board

RECEIVED NOV 2 7 2017

20 November 2017

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

SELF-MONITORING REPORT REVIEW, BEAR VALLEY WATER DISTRICT, BEAR VALLEY WASTEWATER TREATMENT FACILITY, ALPINE COUNTY

The Bear Valley Water District (Discharger) discharges treated wastewater from the Bear Valley Wastewater Treatment Facility (Facility), which is regulated by surface water discharge permit Waste Discharge Requirements (WDRs) Order R5-2016-0045 (NPDES CA0085146) and land discharge permit WDRs Order 5-01-208. The Monitoring and Reporting Program (MRP) of the WDRs requires monitoring for constituents and other parameters and specifies the location and frequency of monitoring. Central Valley Water Board staff has reviewed the electronic self-monitoring reports (eSMRs) for the surface water discharge permit submitted by the Discharger for the **March 2017** through **August 2017** monitoring periods.

No violations of the WDRs or MRP were identified from review of the eSMRs.

Submittals Required by Surface Water WDRs

No technical or progress reports were required by WDRs R5-2016-0045 during the period reviewed under cover of this letter. The next report required is the *2018 Annual Operations Report*, which is due 30 January 2018.

If you have any questions, please contact me at (916) 464-1181 or at mfarhad@waterboard.ca.gov.

MOHAMMAD FARHAD
Water Resource Control Engineer
NPDES Compliance and Enforcement Unit

Bear Valley Water District

Performance vs. Budget December 2016 vs. December 2017

	Prior Year July 1 - Dec. 31	FY 16 - 17 Budget	FY 16 - 17 % Budget	Current Year July 1 - Dec. 31	FY 17-18 Budget	FY 17- 18% Budget	Variance Explanation
REVENUES	-		_				
Residential	294,968	591,000	50%	293,282	589,000	50%	
Commercial	108,732	152,000	72%	122,175	190,000	64%	
Subtotal Operating Revenue	403,700	743,000	54%	415,457	779,000	53%	Revenue Target - 50%
EXPENSES							
Salaries & Benefits	149,856	289,284	52%	162,363	325,776	50%	
Director Expenses	1,730	8,500	20%	1,035	3,000	34%	,
Operator Training & Certs	340	1,000	34%	0	1,500	0%	
Gas, Diesel, Oil & Filters	4,349	13,000	33%	1,877	3,000	63%	2
Insurance	10,795	22,000	49%	15,695	22,500	70%	Prepaid + FY16-17 WC Rec
Memberships & Conferences	3,271	5,000	65%	3,127	5,500	57%	300 SECTION (100 S
Office Expenses & Supplies	9,060	10,000	91%	7,358	10,000	74%	
Field Expenses & Supplies	8,289	15,000	55%	18,003	18,000	100%	Contigency Equipment
Grooming, Snow Removal & Vehicle Stora	1,127	2,500	45%	750	3,500	21%	
Engineering & Consulting	1,653	15,000	11%	2,733	5,000	55%	2017 Water Balance
Legal & Accounting	8,301	10,000	83%	8,755	10,000	88%	Audit Fees
Equipment Rental	9,039	18,000	50%	386	600	64%	
Repairs & Maintenance	46,314	61,200	76%	65,803	78,214	84%	Projects Completed
Laboratory Fees	15,560	21,000	74%	14,816	25,000	59%	
Regulatory Reporting & Comp. Projects	3,724	7,000	53%	3,518	6,500	54%	
Taxes, Fees, Licenses & Assessments	24,910	30,000	83%	28,702	30,000	96%	Prepaid
Utilities	38,269	55,000	70%	25,896	55,000	47%	Reduced Land Disposal
Subtotal Operating Expenses	336,587	583,484	58%	360,815	603,090	60%	Expense Target =60%
Net Operational Income	67,113	159,516	42%	54,642	175,910	31%	-
OTHER REVENUE							
Interest Income - LAIF	979	500	196%	1,742	2,000	87%	ł
Late Fee, Penalties and Interest	5,456	10,000	55%	5,520	10,000	55%	
Expense Reimburements - USFS Campgr	2,384	2,384	100%	3,863	3,863	100%	35
Expense Reimbursements - Concessionn	4,439	4,439	100%	5,290	5,290	100%	7
Misc Other Income	20	0	UBD	34	0,230	UBD	
Misc Galer modifie	20						N.
Subtotal Other Revenue	13,277	17,323	77%	16,448	21,153	78%	ii.
OTHER EXPENSES			A12.50 IA			10000000	
Loan Interest	10,281	20,156	51%	9,689	18,809	52%	l
Depreciation	40,446	96,348	42%	45,449	114,223	40%	l
Mics Expense	100000000000000000000000000000000000000		7,3000	10			l
Subtotal Other Expenses	50,728	116,504	44%	55,147	133,032	41%	
Net Other Income	(37,450)	(99,181)	38%	(38,699)	(111,879)	35%	
NET INCOME	29,662	60,335	49%	15,943	64,031	25%	
NON CASH EXPENDITURES (included in	net income)			-			
Depreciation	40,446	96,348	42%	45,449	114,223	40%	
Subtotal Non-Cash Expenses	40,446	96,348	42%	45,449	114,223	40%	3
•		,0		.5,.70	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		All Designate Commission
CASH EXPENDITURES (Not Included in		100 505	mgo.	1110 705	///= =00:	40001	All Projects Completed
Capital Improvements / Replacements	(49,870)	(66,500)	75%	(119,708)	(117,500)	102%	MZ Study Phase II
Loan Payments - Principal	(17,888)	(36,182)	49%	(18,480)	(37,629)	49%	3
Subtotal Addl Cash Expenses	(67,758)	(102,682)	66%	(138,188)	(155,129)	89%	7.
VET CACH ELOW			401		60.405	0004	
NET CASH FLOW	2,351	54,001	4%	-76,797	23,125	-33%	

11:25 AM 01/19/18 Accrual Basis

BVWD Balance Sheet Prev Year Comparison As of December 31, 2017

	Dec 31, 17	Dec 31, 16	\$ Change	% Change
ASSETS				
Current Assets				
Checking/Savings				
11015 · F&M Bank	294,331.73	349,778.71	-55,446.98	-15.85%
11018 · LAIF	301,432.84	298,449.71	2,983.13	1.0%
11020 · Petty Cash	50.00	50.00		
11025 · Capital Facilities Fund	21,656.00	21,656.00		
Total Checking/Savings	617,470.57	669,934.42	-52,463.85	-7.83%
Accounts Receivable				
11050 · Accounts Receivable	-18,173.45	-11,859.09	-6,314.36	-53.25%
Total Accounts Receivable	-18,173.45	-11,859.09	-6,314.36	-53.25%
Other Current Assets	,	•	·	
11055 · Accounts Receivable-Tax Roll	13,862.95	8,694.33	5,168.62	59.45%
11140 · Prepaid Insurance	3,674.72	7,010.00	-3,335.28	-47.58%
Total Other Current Assets	17,537.67	15,704.33	1,833.34	11.67%
Total Current Assets	616,834.79	673,779.66	-56,944.87	-8.45%
Fixed Assets	,	,	·	
12010 · Land	25,805.16	25,805.16		
12020 · SbSrfLine	1,196,893.29	1,196,893.29		•
12040 · Col Facilities	365,904.61	350,514.48	15,390.13	4.39%
12041 · LA Facilities	166,428.79	166,428.79	·	
12050 · TRT Facilities	1,122,304.14	1,122,304.14		
12060 · DSP Facilities	1,217,330.65	1,176,053.58	41,277.07	3.51%
12080 · P & A (Plant & Admin)Facilities	340,264.59	340,264.59	·	
12100 · Accumulated Depreciation	-2,505,708.50	-2,413,478.48	-92,230.02	-3.82%
14030 · Work in Progress				
14030.0 · W.I.P GIS Consulting Support	19,778.00		19,778.00	100.0%
14030.5 · WIP - Dechlorination System II	13,495.63		13,495.63	100.0%
14030.8 · SCADA Monitoring Alarm System	118,292.32	92,187.61	26,104.71	28.32%
14030.9 · W.I.PSMARTCOVER Monitor/Alarm		15,130.13	-15,130.13	-100.0%
14031.0 · W.I.P. Eq. House Transfer Pumps	4,829.00		4,829.00	100.0%
16500 · USFS Special Use Permit		8,343.60	-8,343.60	-100.0%
16501.1 · W.I.P. Mix Zone Study Phase II	13,233.50		13,233.50	100.0%
16530 · Hydro Jetter	59,272.04		59,272.04	100.0%
Total 14030 · Work in Progress	228,900.49	115,661.34	113,239.15	97.91%
Total Fixed Assets	2,158,123.22	2,080,446.89	77,676.33	3.73%
TOTAL ASSETS	2,774,958.01	2,754,226.55	20,731.46	0.75%
LIABILITIES & EQUITY				
Liabilities				
Current Liabilities				
Accounts Payable				
21021 · Accounts Payable	9,506.12	5,260.61	4,245.51	80.7%
Total Accounts Payable	9,506.12	5,260.61	4,245.51	80.7%
Other Current Liabilities				

BVWD Balance Sheet Prev Year Comparison As of December 31, 2017

	Dec 31, 17	Dec 31, 16	\$ Change	% Change
21090 · Payroll Liabilities	14,320.78	13,720.11	600.67	4.38%
2110 · Direct Deposit Liabilities	3.54	3.54		
22021 · Accrued Vacation	5,551.72	12,028.34	-6,476.62	-53.85%
Total Other Current Liabilities	19,876.04	25,751.99	-5,875.95	-22.82%
Total Current Liabilities	29,382.16	31,012.60	-1,630.44	-5.26%
Long Term Liabilities				
26025 · F&M Bank Loan	474,736.21	511,514.55	-36,778.34	-7.19%
Total Long Term Liabilities	474,736.21	511,514.55	-36,778.34	-7.19%
Total Liabilities	504,118.37	542,527.15	-38,408.78	-7.08%
Equity				
29000 · Retained Earnings	2,254,896.13	2,182,036.95	72,859.18	3.34%
Net Income	15,943.51	29,662.45	-13,718.94	-46.25%
Total Equity	2,270,839.64	2,211,699.40	59,140.24	2.67%
TOTAL LIABILITIES & EQUITY	2,774,958.01	2,754,226.55	20,731.46	0.75%

BVWD A/P Aging Summary As of October 31, 2017

Prepaids October 2017	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL	Description
A.T.&T.	108.82		-			108.82	Telephone for Lake Alpine Boat Ramp
A.T.&T.	205.36					205.36	Telephone for Main Office
A.T.&T.	45.00					45.00	U-Verse for Main Office
Bear Valley Snowmobile	326.10					326.10	Snowmobile Repair & Maintenance
Card Services	413.89					413.89	Office & Field Supplies
Cheq Processing	42.41					42.41	Simply Deposit Fees
E.D.D.	431.26					431.26	State Payroll Taxes
E.D.D.	398.35					398.35	State Payroll Taxes
F & M Bank	4,694.80					4,694.80	Principal & Interest on Loan
I.R.S.	3,404.82					3,404.82	Federeal Payroll Taxes
I.R.S.	3,169.52					3,169.52	Federeal Payroll Taxes
Lake Alpine Water Co.	186.90					186.90	Water for Main Office
Marty Simpson	700.00					700.00	Paint
P.G.&E.	2,123.52					2,123.52	Electricity
SDRMA	1,672.00					1,672.00	Employee Medical Insurance
SDRMA	610.37					610.37	Employee Aniciallary Insurance
SDRMA	2,179.65					2,179.65	Annual PR Reconciliation Workers Comp
Solsby Refund	268.43					268.43	A/R Refund - Property Sold
OTAL	20,981.20					20,981.20	

Accounts Payable October 2017	Current	1 - 30	31 - 60	61 -	30	> 90	TOTAL	Description
Alpha Analytical Laboratories Inc.	118.00	2,056.00					2,174.00	Laboratory Analysis
Alpine County Public Works	833.86						833.86	Fuel
Aqua Sierra Controls, Inc.		24,701.50					24,701.50	Field Equipment,
Arnold Auto Supply Inc.	167.18	21.40					188.58	Oil, Oil Filters, Antifreeze, Misc Parts
Bear Valley Cross Country, Inc	750.00						750.00	Snow Removal Fees
Card Services		4,487.11		,			4,487. i 1	Field & Office Supplies
Columbia Communications Inc.		39.00					39.00	Quarterly Pager Fees
EBBETTS PASS GAS CO. Inc.		427.37					427.37	Propane for Main Office
Ebbetts Pass Lumber Co. Inc.		554.21					554.21	Field Supplies

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BVWD A/P Aging Summary As of October 31, 2017

Accounts Payable October 2017	Current	1 - 30	31 - 60	61 - 90	> 90		TOTAL	Description
Gateway Press Inc.		343.22				T	343.22	Envelope for A/R Billing
Gold Country Carpet Cleaning		125.00					125.00	Clean Office Carpet
Gunnar Thordarson		100.00					100.00	Director Fee
Hach		189.92					189.92	Field Supplies
IEH Laboratories Inc.		371.28				П	371.28	Laboratory Analysis
Jim Bissell		100.00					100.00	Director Fee
John Boyle		100.00					100.00	Director Fee
Ken Brown		100.00					100.00	Director Fee
Lake Alpine Water					-0.02		-0.02	Bank Debited Incorrect Amount of Check
M & K ARNOLD		20,922.27					20,922.27	TransPumps, Intake/Outtake Manifolds, Concrete Pad
Neumiller and Beardslee		75.00					75.00	Legal Fees
Pioneer Electric	1,148.50						1,148.50	Run Power to New Pumps & Install New Boxes
Sierra Chemical Co. Inc.		3,266.33					3,266.33	Chlorine
Stantec Consulting Services Inc.	12	7,371.50					7,371.50	Mixing Zone Study
Stefaniya Beckings		100.00					100.00	Director Fee
Weber Ghio and Associates, Inc		135.00					135.00	Engineering Fees
TOTAL	3,017.54	65,586.11			-0.02		68,603.63	

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BVWD A/P Aging Summary As of November 30, 2017

			As c	of N	Novemb	er	30, 20)17	•	
Prepaids November 2017	Current	1 - 30	31 - 60		61 - 90		> 90		TOTAL	Description
A.T.&T.	108.90								108.90	Telephone Lake Alpine Boat Ramp & MPS
A.T.&T.	205.47								205.47	Telephone for Main Office
A.T.&T.	45.00								45.00	U-Verse for Main Office
Capital Bank & Trust	2,403.56								2,403.56	Simply IRA
Card Services	2,200.31								2,200.31	Field and Office Supplies
Cheq Processing	85.92								85.92	Simply Deposit Fees
E.D.D.	202.19								202.19	State Payroll Taxes
E.D.D.	218.64								218.64	State Payroll Taxes
F&M Bank	4,694.80								4,694.80	Principal & Interest on Loan
I.R.S.	1,967.32					Ī			1,967.32	Federal Payroll Taxes
I.R.S.	2,032.76								2,032.76	Federal Payroll Taxes
Lake Alpine Water Company	161.08								161.08	Water for Main Office
P.G.&E.	1,439.77								1,439.77	Electricity
SDRMA	1,672.00								1,672.00	Employees Medical Insurance
SDRMA	642.69								642.69	Employees Dental, Vision, Life, LT Disablity Ins.
USPS	6.51								6.51	Postage
USPS	294.00								294.00	Postage for Accounts Receivable Invoices
The Zenith	822.00								822.00	Workers Compensation Insurance
TOTAL	19,202.92								19,202.92	
Accounts Payable November 2017	Current	1 - 30	31 - 60		61 - 90		> 90		TOTAL	Description
Alpha Analytical Laboratories Inc.		462.00							462.00	Lab Analysis
Alpine County Public Works	176.85								176.85	Fuel
Arnold Auto Supply Inc.		239.29							239.29	Field and Vehicle Supplies
CISCO Fire Sprinkler, Inc.		100.00							100.00	Fire Extenguishers Recharged / Inspected

Accounts Payable November 2017	Current	1 - 30	31 - 0	50	61 - 90		> 90	IOIAL	Description			
Alpha Analytical Laboratories Inc.		462.00		\top				462.0	0 Lab Analysis			
Alpine County Public Works	176.85				1			176.8	·uel			
Arnold Auto Supply Inc.		239.29						239.2	9 Field and Vehicle Supplies			
CISCO Fire Sprinkler, Inc.		100.00						100.0	Fire Extenguishers Recharged / Inspected			
CSDA		1,836.00						1,836.0	0 Membership Dues			
Ebbetts Pass Lumber Co. Inc.		306.73	10.	69				317.4	2 Field Supplies			
Hach		132.99						132.9	9 Field Supplies			
Lake Alpine Water							-0.02	-0.0	2 Bank Debited Error			
Rain For Rent		742.61						742.6	1 Pump Rentals & Spray Field Parts			
Stantec Consulting Services Inc.		1,758.75						1,758.7	5 Consulting			
TOTAL	176.85	5,578.37	10.	69		\Box	-0.02	5,765.8	9			

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BVWD A/P Aging Summary

As of	December	31, 2017
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Prepaird December 2017	Current	1 - 30	31	I - 60	61 - 90		> 90	TOTAL	Description	
A.T.&T.	108.88							108.88	Telephone for Lake Alpine Boat Ramp & MPS	
A.T.&T.	201.25					П		201.25	Telephone for Main Office	
A.T.&T.	45.00					П		45.00	U-Verse for Main Office	
Capital Bank & Trust	1,449.32							1,449.32	Simple IRA	
Cheq Services	60.57							60.57	Simply Deposit Fees	
E.D.D.	219.14							219.14	State Payroll Taxes	
E.D.D.	218.87					П		218.87	State Payroll Taxes	
E.D.D.	193.49					П		193.49	9 State Payroll Taxes	
F & M Bank	4,694.80					П		4,694.80	Principal & Interest on Loan	
I.R.S.	2,036.14					П		2,036.14	Federal Payroll Taxes	
I.R.S.	2,033.38					П		2,033.38	Federal Payroll Taxes	
I.R.S.	1,955.46							1,955.46	Federal Payroll Taxes	
Lake Alpine Water Company	148.17							148.17	Water for Main Office	
P.G.&E.	1,665.03					П		1,665.03	Electricty	
SDRMA	1,672.00							1,672.00	Employee Medical Insurance	
SDRMA	492.97							492.97	Employee Dental, Vision, Life, LT Disability	
The Zenith	822.00							822.00	Workers Compensation Insurance	
OTAL	18,016.47							18,016.47		

Accounts Payable December 2017	Current	1 - 30	31 - 6	0	61 - 90	-	> 90	TOTAL	Description		
Alpha Analytical Laboratories Inc.		462.00						462.00	Laboratory Analysis		
Alpine County Public Works	142.79							142.79	Fuel		
Arnold Auto Supply Inc.		89.11						89.11	Auto Supplies		
Bear Valley Cross Country, Inc		25.00						25.00	0 Season Trail Pass		
Bear Valley Snowmobile Inc.		473.54						473.54	Snowmobile Repair & Maint		
EBBETTS PASS GAS CO. Inc.	596.28							596.28	Propane		
Ebbetts Pass Lumber Co. Inc.	265.03	`						265.03	3 Field Supplies		
Enkode		1,500.00						1,500.00	Website Creation		
ERI Street Machine & Welding		728.96						728.96	Repair & Maint Boat Ramp		
Gateway Press Inc.		451.86						451.86	Envelopes for A/R		
JL Analytical Services, Inc.		3,192.00						3,192.00	Laboratory Analysis		
Lake Alpine Water							-0.02	-0.02	Bank Debit Error		

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BVWD A/P Aging Summary As of December 31, 2017

Accounts Payable December 2017	Current	1 - 30	31	- 60	61 - 9		> 90		TOTAL	Description
McCrometer, Inc.		1,059.57							1,059.57	Sprayfield Meter Calibration
Nassco		295.00							295.00	Membership Dues
Weber Ghio and Associates, Inc		225.00				Т			225.00	Engineering
TOTAL	1,004.10	8,502.04				\neg	-0.02	П	9,506.12	

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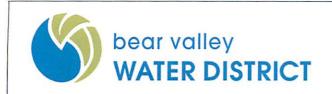
BVWD A/R Aging Summary

As of January 19, 2018

Current	1 - 30		31 - 60	61 - 90		> 90	 TOTAL
TOTAL	\$ 141,2	30.49	\$ 1,407.32	\$ (1,622.89)	\$	(19,246.54)	\$ 121,768.38
TOTAL CREDITS	-	\$0.00	-620.89	-1,958.22	,	-30,332.84	-\$32,911.95
TOTAL DEBITS	141,	230.49	2,028.21	335.33		11,086.30	\$154,680.33
TOTAL	\$141,2	30.49	\$ 1,407.32	\$ (1,622.89)	\$	(19,246.54)	\$121,768.38

Accounts Receivable as of January 19, 2017

TOTAL	\$ 141,140.51	\$ (35.25)	\$ (1,908.03)	\$ (10,651.74)	\$ 128,545.49
TOTAL CREDITS	-50.51	-733.00	-2,450.36	-22,158.04	-25,391.91
TOTAL DEBITS	\$141,191.02	697.75	 542.33	 11,506.30	 \$153,937.40
TOTAL	141,140.51	 -35.25	-1,908.03	-10,651.74	\$128,545.49



BEAR VALLEY WATER DISTRICT

BOARD MEETING

October 23, 2017 - 9 A.M.
Conference Room

441 Creekside Drive, Bear Valley, CA 95223 Call- In Info: 605-475-5920 Access Code: 475-0045

MINUTES

REGULAR BOARD MEETING

DECLARATION OF A QUORUM

President James Bissell called the meeting to order at 9:10 A.M. Directors present were Vice President Stefaniya Becking, Secretary Ken Brown, Treasurer John Boyle, and Director Gunnar Thordarson. Staff present were General Manager Jeff Gouveia and Office Manager Judi Silber. Public present was Mr. John Dralla.

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.

The Minutes are presented as they appeared on the agenda. The actual meeting began with item 2. Reserve Funds in order to accommodate Mr. Robert W. Johnson, Certified Public Accountant, who attended the meeting remotely via telephone. Mr. Johnson is the District's auditor.

BOARD BUSINESS

1. The Board will consider adoption of the July 24, 2017 Board Meeting minutes

Motion Boyle Second Thordarson to approve the July 24th, 2017 Minutes as presented. ALL AYES; MOTION CARRIED

2. Reserve Funds - Discussion and Possible Action Item

Robert W. Johnson joined the meeting by phone at the request of the General Manager to discuss the District's interest in establishing a reserve fund policy as well as establishing several initial fund types. The Board of Directors had many questions for Mr. Johnson. Treasurer Boyle asked if it was reasonable to hold cash verses paying off debt. Mr. Johnson recommended having a minimum of 3-6 months operating expenses on hand in cash. GM stated that the District's cash position is close to the annual operating expenses. Mr. Johnson suggested the District begin reserving for future asset repair and replacement. He recommended that the District drill down on immediate needs for capital funds. Mr. Johnson stated that there are three types of common reserve funds: Contingency Reserves, Emergency Reserves and Capital Reserves. Mr. Johnson noted that many Districts set aside reserves at the same time that they setup their annual fiscal budget. Mr. Johnson suggested setting up a separate bank account for each reserve and a savings account for future infrastructure. He recommended that the Board establish their priorities and the amount of money to be setup for each fund. GM recommended that the District initially consider funding the emergency reserve fund with \$100K. Mr. Johnson stated that the District can setup funds without funding them as well. Mr. Johnson gave the General Manager a C+ to a B- on the overall fiscal health of the District. President Bissell thought that the rate payers would think that was a good score.

Motion Boyle Second Becking to accept the Reserve Fund Policy as presented. ALL AYES: MOTION CARRIED

3. FY 17 - 18 Budget - Employee Benefits - Discussion and Possible Action Item

GM stated that the District hasn't yet received notification of approval from CalPERS. Effective July 1, 1988, the District entered into a voluntary Section 218 agreement providing coverage of state and local employees for Social Security benefits. This allows District employees to receive both Social Security benefits and well as public retirement plan benefits such as a defined benefit plan (e.g. CalPERS) or a defined contribution plan. Director's Thordarson, Boyle and Brown expressed reservations about the CalPERS program in favor of a defined contribution plan noting rising mandatory contribution rates as well as concerns that once the District commits to a contract with CalPERS termination is costly. GM Gouveia presented defined contribution plan options for the Board to consider with a recommendation for a 3% "grant" to qualifying employees plus up to a 3% match of each qualifying employees contribution to their own retirement plan. GM also presented several scenarios of cash-in-lieu of other benefits for the Board to consider. Mr. Johnson suggested that a good "Plan B," for the District would be a defined contribution plan instead of CalPERS. Mr. Johnson shared that many of his clients are Special District's and have standard contribution rates of 6 – 8% of each qualifying employee's salary or wage. After further discussion, the GM was directed to bring retirement management service options back to the next meeting.

Motion Boyle Second Thordarson to initiate a defined contribution program effective January 1, 2018 to include a 3% "grant" plus up to a 3% match of each qualifying employees' contribution to their retirement plan. In addition, to adopt, effective November 1st, 2017, a 50% cash-in-lieu program for employees who opt out in writing of other benefits.

ALL AYES: MOTION CARRIED

Operations 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 Brown to accept the P&L and Balance Sheet Reports as presented. ALL AYES; MOTION CARRIED

4.2 Accounts Payable Report - Discussion and Possible Action Item

Motion Thordarson Second Brown to accept the Accounts Payable Reports as presented. ALL AYES; MOTION CARRIED

4.3 A/R & Aging Reports - Discussion

The Accounts Receivable balance as of October 20th, 2017 was \$117,340.53. The balance on October 20th, 2016 was \$78,888.97.

4.4 FY 2016-17 Audit - Discussion and Possible Action Item

Discussion and possible action postponed until January meeting.

5. Board Member Reports

The next board meeting was set for Monday, January 22nd, 2018 at 9:00 a.m.



AGENDA ITEM

DATE: OCTOBER 23, 2017

To: BVWD BOARD OF DIRECTORS

FROM: JEFF GOUVEIA, DISTRICT GENERAL MANAGER

RE: MONTHLY OPERATIONS REPORT

- 1. Collections, Treatment & Disposal Operations Update
 - a. Flows Influent Flows & Pond Transfers
 The influent flows (MG) for October were .466 MG / 68.8 % change previous year.
 Transferred to PR (MG) in October was .623 MG
 - a. Volumes Storage, Capacity & Disposal
 Land application Annual Total for 2017 was 16.051 MG / 30.5% change in previous year.
 Land application began July 1 and ended September 29th, 2017.
 Discharge effluent flow totals MG Total Surface Discharge for 2017 was 92.3 MG
 Storage Reservoir Elevations and Volumes highest level 2017 3/8/17 was 65.67% MG = 85.9%.
 Current Storage Volume was .686 MG = 9% on 10/22/2017.
- 2. Permit Compliance & Monitoring & Reporting Programs (MRPs) Update
 - a. WDR MRP Land Discharge Permit Compliance & Reporting Update
 - i. Tri-Annual Groundwater Monitoring
 - i. 2nd Tri Annual Sampling Performed August 24 Report Due Nov 1
 - ii. 3rd Tri Annual Sampling Performed September 28 Report Due February 1
 - b. NPDES MRP Surface Water Discharge Permit Compliance & Reporting Update
 - i. R5-2016-0054 Updated Dilution/Mixing Zone Study Report Submitted September 20 (See Att)
 - 3. 2017 Cap Ex Projects Update
 - a. Surface Discharge Monitoring System New Residual Chlorine and Bisulfite Monitoring Units Installed
 - b. Treatment > Storage Transfer System New 375 GPM Pumps Installation in Progress
 - c. Headworks Magnetic Flow Meter Replacement New Submersible Flow Meter Installed
 - d. New Hydro Jetter Received and Put Into Use in August and September Approx. 7000' cleaned
 - 4. 2017 Repair and Maintenance Projects Update
 - 5. Other
 - Dept. of Water Resources Emergency Action Plan & Inundation Map Discussion and Possible Action
 Item

Bear Valley SH Dam No. 1088.000 has been classified as a "significant" hazard. Newly enacted state law effective July 1, 2017, requires dam owners to prepare an emergency action plan for their dams. The EAP must be completed and submitted fort he subject dam by January 1, 2021. Prior to this date, An inundation map must be submitted for review and approval by the Division. Pursuant to the Public Records Act and the State's effort to bolster transparency in government, the (DSOD) will publicly release Information related to all dams under the state's jurisdiction. The information that will be made public is the downstream hazard classification, reservoir restriction status, and condition assessment.



- b. 2017 System Capacity Update Discussion
 Engineer Gary Ghio sent GM an email on August 2, 2017 stating that there is no change over what he calculated in 2016, i.e. 1196 additional connections.
- c. BVWD October 2017 Newsletter
 The October Newsletter covered the 5 -year NPDES permit adopted on June 24, 2016.
 2017-18 Budget Targets Preparing for Future "Atmospheric River" Events.
 The Collection System Maintenance and the purchase of the new hydro jetter.
 Reminder of alternatives to dispose of fats, oils, and grease.
 The District welcomes three incumbents for another four years.
- d. Worker's Compensation Certificate of Consent Resolution Discussion and Possible Action Item Cal Mutuals JPRIMA, required the District Board of Directors to approve a Certificate of Consent Resolution and complete a questionnaire for the District's ne Worker's Compensation Insurance Policy.
- e. BVWD Election Boyle, Becking, Bissell

 The three incumbents were appointed by the Alpine County Board of Supervisors at their

 December 3rd, 2017 meeting, as there was no opposition, saving the District the expense of an election. The appointed Directors terms will be from December 1, 2017 to December 3, 2021.