



**SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT**  
380 E. Vanderbilt Way, San Bernardino, CA 92408

**BOARD OF DIRECTORS WORKSHOP - POLICY**

**AGENDA**

**2:00 PM Thursday, March 12, 2020**

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**CALL TO ORDER** -

*Chairperson: Director Longville*

*Vice-Chair: Director Kielhold*

**1. INTRODUCTIONS**

**2. PUBLIC COMMENT** - *Any person may address the Board on matters within its jurisdiction.*

**3. SUMMARY OF PREVIOUS MEETING**

- 3.1. February 6, 2020, Meeting (Page 3)  
[Summary Notes BOD Workshop - Policy 020620](#)

**4. DISCUSSION ITEMS**

- 4.1. Quarterly Investment Portfolio Update from PFM Asset Management (Page 8)  
[Staff Memo - Quarterly Investment Advisor Update](#)  
[PFM 4th Qtr 2019 Investment Portfolio Presentation](#)
- 4.2. Consider Contract Amendment to Create a Data Management System for the Yucaipa Groundwater Sustainability Agency (Page 27)  
[Staff Memo - Consider Contract Amendment to Create a Data Management System for the Yucaipa Groundwater Sustainability Agency](#)  
[Dudek - Proposal to Develop a Data Management System for the Yucaipa GSA](#)
- 4.3. Update on Citrus Reservoir and Pump Station Floating Cover System Project (Page 39)  
[Staff Memo - Update on Citrus Reservoir Floating Cover System](#)
- 4.4. Update on Groundwater Sustainability Councils (Page 41)  
[Staff Memo - Update on Groundwater Sustainability Councils](#)

## 5. ADJOURNMENT

PLEASE NOTE:

Materials related to an item on this Agenda submitted to the Board after distribution of the agenda packet are available for public inspection in the District's office located at 380 E. Vanderbilt Way, San Bernardino, during normal business hours. Also, such documents are available on the District's website at [www.sbvmd.com](http://www.sbvmd.com) subject to staff's ability to post the documents before the meeting. The District recognizes its obligation to provide equal access to those individuals with disabilities. Please contact Lillian Hernandez at (909) 387-9214 two working days prior to the meeting with any special requests for reasonable accommodation.



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**DATE:** March 12, 2020

**TO:** Board of Directors' Workshop - Policy

**FROM:** Staff

**SUBJECT:** Summary of February 6, 2020 Board of Directors Workshop - Policy

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The Policy Workshop convened on February 6, 2020. Director Longville chaired the meeting; Directors Harrison, Hayes, Kielhold, and Navarro participated in the Workshop. Heather Dyer, Cindy Saks, Bob Tincher, and Kristeen Farlow, of staff, participated in the workshop.

### **3. Summary of Previous Meeting**

The meeting notes from the January 2, 2020, Board of Directors Workshop – Policy were reviewed. Staff clarified that item 4.6 “Discuss Discretionary Meetings and Request to Add Specific Meetings to the Approved Meetings List” will not be presented at the February 6, 2020 meeting; but will come before the Board for discussion at a Workshop in March 2020.

#### **4.1 Water Use Efficiency Update**

Staff provided the Board of Directors with an update on the Water Use Efficiency Program. There have been no additional requests for reimbursement over last month's totals of \$63,277, from the City of Colton, Colton Unified School District, Rialto Unified School District, and Yucaipa Valley Water District. The Board discussed the reimbursement to the San Bernardino Municipal Water Department for Installation of Water Efficient Landscaping as specified in the Settlement Agreement from November 2017 (total of \$489,070). A request was made to add a footnote to the WUE budget graph noting that the \$489,070 was paid as part of the settlement and is in addition to the amounts shown in the figure.

The Inland Empire Resource Conservation District has made 71 classroom presentations throughout the District's service area, and has another 49 presentations to make before the end of the year. One teacher workshop was held on January 8, 2020, with 17 attendees. A second teacher workshop is scheduled for May 5, 2020. There are two residential workshops being hosted at Valley District on March 7 and March 20, 2020, 9 a.m. – 12 p.m. on the topics of Landscape Design: The First Step in Your Efficient Landscape and Managing an Efficient Irrigation System.

**Action Item(s):** 1) Staff will provide the Directors with an electronic invitation to the upcoming landscape workshops for their reference and sharing with their contacts.

2) Staff will explore opportunities to provide a certificate of participation to all students who receive a classroom presentation from IERCD.

3) At the next Policy Workshop, staff will provide additional information regarding the 2017 Settlement Agreement and the San Bernardino Municipal Water Department installation of water efficient landscaping and will note the amount budgeted for this purpose on the water use efficiency status report.

#### **4.2 Legislative Program Update**

Staff provided the Board of Directors with an update on state and federal legislation and other legislative issues. Activities reported included the release of the Governor's Water Resilience Portfolio on which Staff reported that a comment letter on the Resilience Portfolio was prepared and would be submitted by the February 7, 2020 deadline. Staff also reported that Governor Newsom proposed his State Budget to the Legislature on January 10, 2020. Staff noted that the State Legislature had until January 24, 2020, to submit bill requests and the last day for bills to be introduced is February 24, 2020.

An overview of the three bond proposals was provided to the Board of Directors. All three bonds – authored by Senator Allen, Assemblymember Garcia and Governor Newsom – are Climate Resilience Bonds. Each of the bonds proposes funding for climate resilience, wildfire prevention and forest management, protection of water supply and water quality, protection of fish and wildlife from climate risk, and drought preparation.

The State issued a Notice of Preparation for the Delta Tunnel Project (Delta Conveyance Facility). This is the first step in the environmental review process of the single tunnel

project. The public comment period on Delta Conveyance is currently open and will close on March 20, 2020. There will be seven public meetings held throughout the state in February to receive comments on the proposed project.

On the federal side, there are plans in both chambers to move infrastructure proposals that promise billions in projects. The EPA announced the repeal of the 2015 Waters of the U.S. (WOTUS) definition, that added roads, bridges, flood control channels, ditch construction, and maintenance projects; returning to the previous definition of “waters of the United States.” Additionally, the EPA has released a list of forever chemicals that includes PFAS.

**Action Item (s):** 1) Director Longville requested staff schedule meetings with Senator Allen’s office and, potentially, Assemblymember Garcia’s office to discuss the District’s project connections to their proposed resilience bond bills. Staff will work with The Gualco Group, Inc., to coordinate these meetings.

#### **4.3 Consideration of Sponsorship of Young Legislators Program**

Staff presented the Board of Directors with a request for sponsorship of the 47<sup>th</sup> Assembly District Young Legislators Program. This program provides high school students with an opportunity to learn about all levels of government and culminates in a visit to the State Capitol. This is the second year that Valley District has been asked to sponsor the program. Last year, the District supported the program with a \$500 sponsorship.

**Action Item (s):** 1) This item will be forwarded to the February 18, 2020, Board of Directors meeting for consideration of the \$1,000 sponsorship, as proposed by the Board. Staff will include details about where the student participants come from, within the District’s service area.

#### **4.4 Review Current 2020 Calendar of District Board Meetings and Workshops and Discuss Possible Changes to Meeting Dates and/or Time**

Staff presented the Board of Directors with a 2020 District Calendar of Events for discussion and consideration of canceling and rescheduling Board Meetings and Workshops, where potential conflicts exist. The Board discussed the calendar and provided direction to staff. The Board discussed changing all meeting start times to 2 p.m. to allow more time for the Board to complete the work of the District while allowing time to participate in outside evening meetings, if so desired. The Board also discussed a request

from staff to switch the occurrences of the Policy Workshop with the Resources Workshop in order to provide the Board of Directors with the most up-to-date information on the policy-related items.

**Action Item(s):** 1) Staff will update the 2020 District Calendar of Events based on the discussion, including adding the Basin Technical Advisory Committee meetings, meetings of the Advisory Commission on Water Policy and the California Water Policy Conference.

2) The District will cancel the May 5, 2020, Board Meeting and May 7, 2020, Board Workshop; a replacement Board Workshop is targeted to be scheduled for May 18, 2020.

3) The District will cancel the December 1, 2020, Board Meeting and December 3, 2020, Board Workshop; a replacement Board Workshop is targeted to be scheduled for December 17, 2020.

4) Staff will send a revised 2020 District Calendar of Events to the Directors by February 21, 2020.

5) Staff will write a resolution to change all meeting start times to 2 p.m. Staff will confirm the noticing requirements with legal counsel (for this time change) and inform the Board of the exact date this change will begin. It is anticipated this change will take effect in March 2020.

6) The Board approved the request from staff to switch the occurrences of the Policy Workshop with the Resources Workshop. The Resources Workshop will now be held on the 1<sup>st</sup> Thursday of the month; the Policy Workshop will be held on the 2<sup>nd</sup> Thursday of the month. This change will take effect beginning with the workshops in March 2020.

#### **4.5 Discuss Opportunities to Provide Audio and/or Video Access to Valley District Board of Directors Meetings**

Staff presented the Board of Directors with an item regarding providing video recordings of Valley District Board of Directors meetings. The District is in the planning stages of exploring options to upgrade the audio-visual capabilities in the Board Room. It is anticipated that this project will be completed by the end of the 2019-2020 fiscal year. The Directors indicated they would like to make available video recording of Board meetings on our website the following day. At this time, there is not a desire to have live broadcasting of

our meetings. The Directors requested that we have a press release or other announcement once the video capability is in place.

**Action Item(s):** 1) Staff will provide the Board of Directors with a set of options to record meetings and post to the website the next day for viewing. Elements that will be considered include multi-camera options, hiring a technician to record and livestream meetings, improvements to microphones, and larger television screens. Staff will prepare a list of the options and associated costs and present them to the Board at a future workshop.

## **5. Future Business**

There was no discussion of future business to come before the Board Policy Workshop.

## **6. Adjournment**

### **Staff Recommendation**

Receive and file



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**DATE:** March 12, 2020  
**TO:** Board of Directors' Workshop - Policy  
**FROM:** Cindy Saks, Deputy General Manager - Administration  
**SUBJECT:** Quarterly Investment Portfolio Update with PFM Asset Management

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**Background**

At the March 18, 2014 Board meeting, the Board approved to continue to receive Investment Advisory services from PFM Asset Management under the same terms and conditions and to continue with the current investment strategy developed and adopted by the Board in April 2012. One of the specific tasks outlined by the Board is to meet quarterly with the investment advisor. Richard Babbe, Senior Managing Consultant of PFM Asset Management will be available via conference call to make a presentation on the status of the District's investments based on the current investment strategy.

**Attachment**

PFM Asset Management 4th Quarter 2019 presentation

**Recommendation**

Receive and file the quarterly investment portfolio update from PFM.



# San Bernardino Valley Municipal Water District

## Portfolio Update

Quarter Ending December 31, 2019

**Richard Babbe, CCM, Senior Managing Consultant**

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PFM Asset  
Management LLC

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601 South Figueroa  
Street, Suite 4500  
Los Angeles, CA 90017

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(949) 230-6896  
[pfm.com](http://pfm.com)



## Key Messages

### Economic and Interest Rates Conditions:

- I. At the October Federal Reserve meeting, members of the FOMC voted to cut rates for the third consecutive time and are now targeting a range of 1.50% to 1.75%. The rate decision was characterized as “insurance against ongoing risks.” At the most recent meeting in December, Fed Chair Jerome Powell signaled the current policy stance will remain appropriate as long as “incoming data remains broadly consistent with the outlook.”
- II. The U.S. yield curve steepened and regained its positive slope. Yields for tenors less than 2 years decreased largely due to the Fed rate cut and longer term yields increased as recession fears subsided.
- III. Manufacturing activity has recovered from the deterioration seen over the summer. The December Markit reading came in at 52.4, above the 50-line that demarcates an expansion. However, Markit and ISM have not been moving in tandem; ISM has yet to emerge from contraction.
- IV. Inflation, measured by Core PCE, remained below the Fed’s 2% target amid a gradual de-escalation in tariff measures.

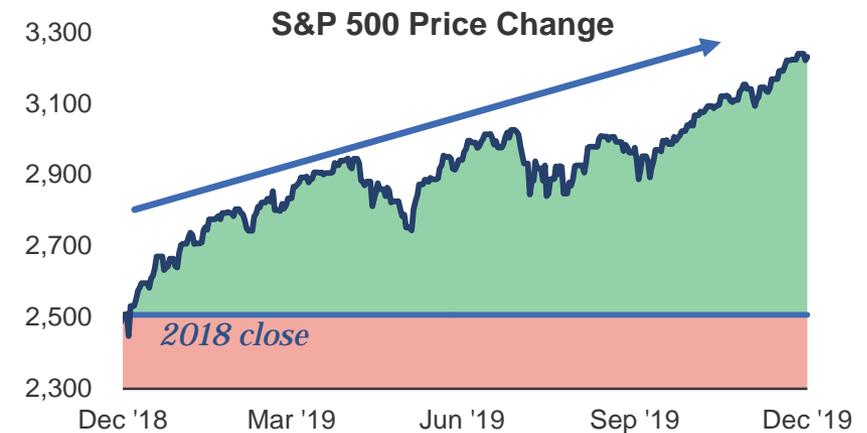
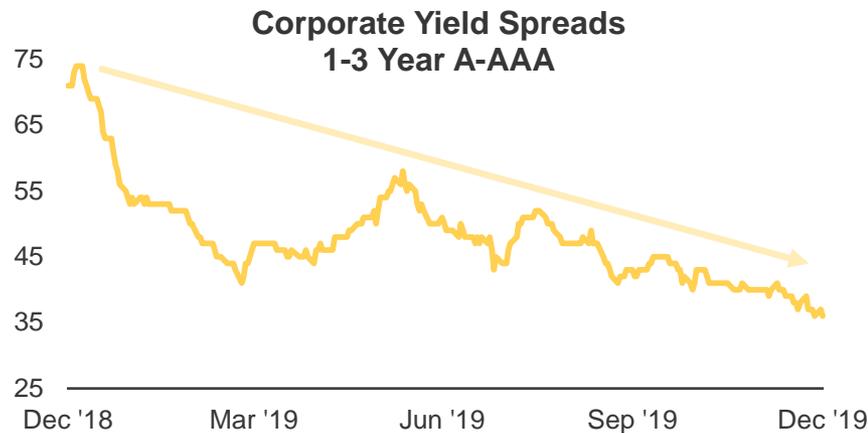
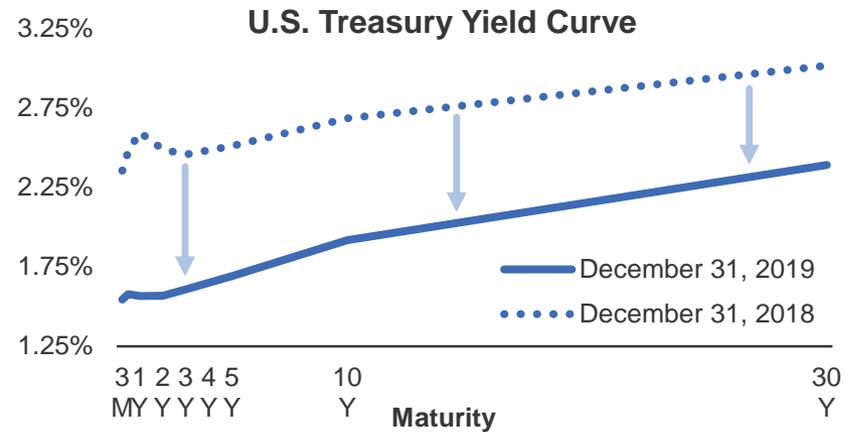
### Strategy Considerations:

- I. We continue to actively manage the portfolio to take advantage of market opportunities consistent with the portfolio’s long-term strategy, and maintain portfolio durations in line with benchmarks for the quarter as market expectations called for stable rates well into 2020.
- II. We maintained broad diversification across all permitted fixed income sectors. Although most sector spread levels were on the tighter end of their recent trading history, the incremental income was generally additive to performance in a range-bound interest rate environment in the fourth quarter.
- III. Corporate bonds performed top-of-class once again as yield spreads tightened to their lowest in 2019 and approached post-recession lows. Our corporate sector strategy during the fourth quarter included opportunistic selling, booking profits on the most expensive issues and modestly de-risking portfolios as spreads moved to very narrow levels.
- IV. The core portfolio continues to perform well versus the District’s selected benchmark over longer periods of time.



# Major Market Moves in 2019

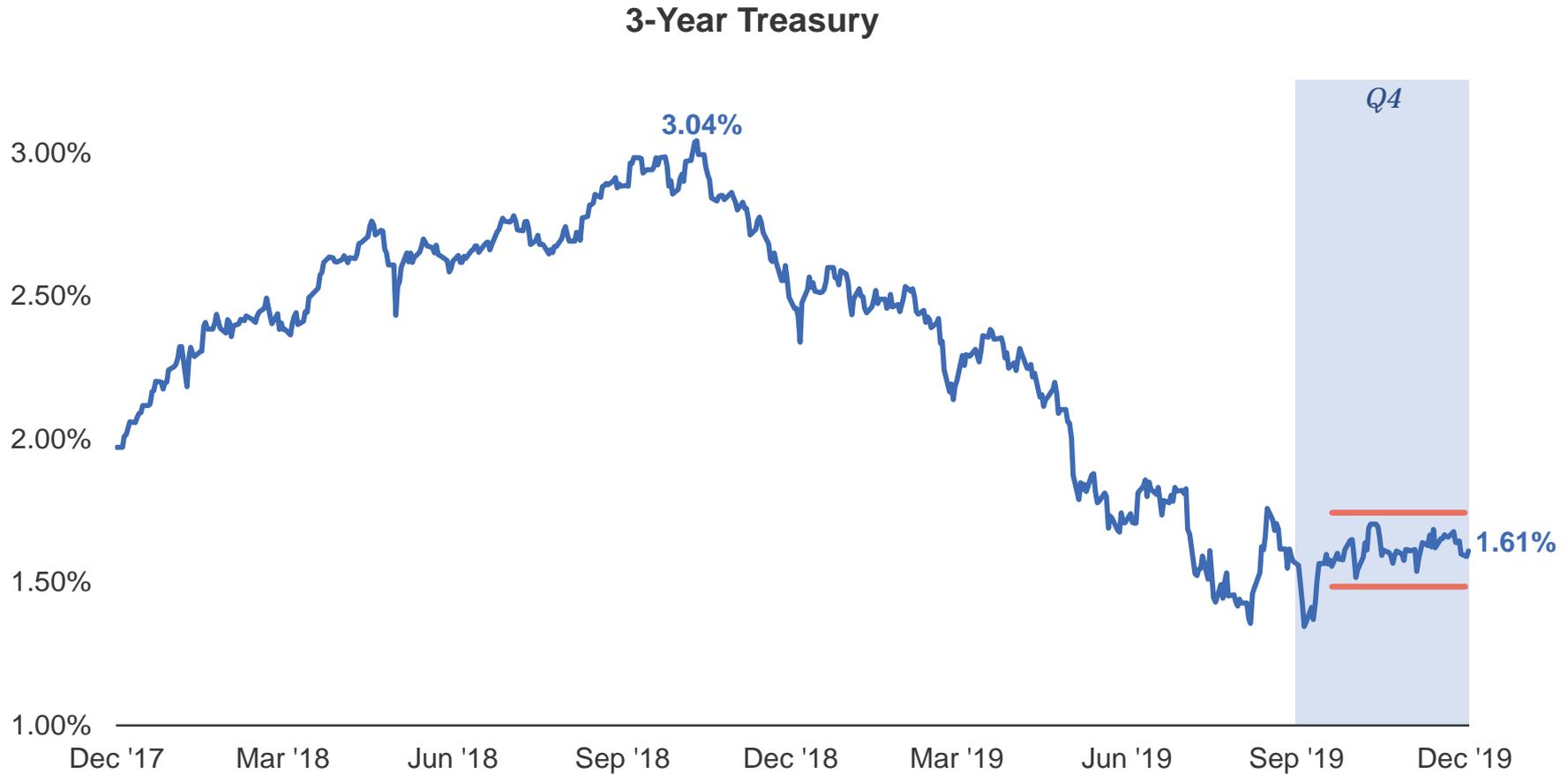
Federal Funds Target Range			
Year	Starting Range	Ending Range	# of Hikes/Cuts
2015	0.00%-0.25%	0.25%-0.50%	1 hike
2016	0.25%-0.50%	0.50%-0.75%	1 hike
2017	0.50%-0.75%	1.25%-1.50%	3 hikes
2018	1.25%-1.50%	2.25%-2.50%	4 hikes
<b>2019</b>	<b>2.25%-2.50%</b>	<b>1.50%-1.75%</b>	<b>3 cuts</b>



Source: Bloomberg, as of December 31, 2019.



## Treasury Yields Settled into a New, Lower Range



Source: Bloomberg, as of December 31, 2019.



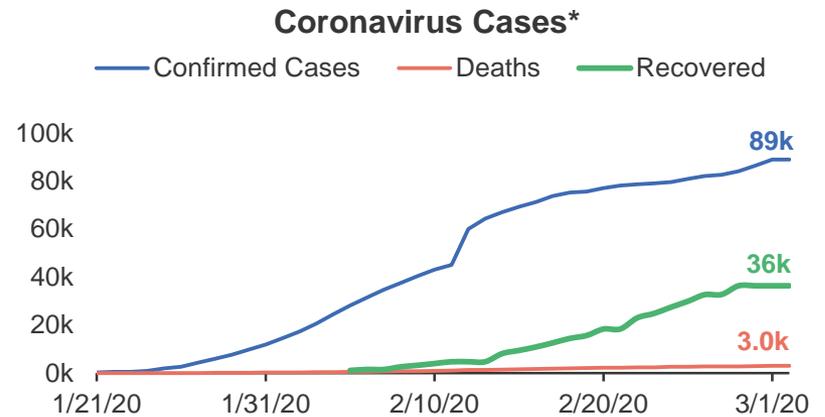
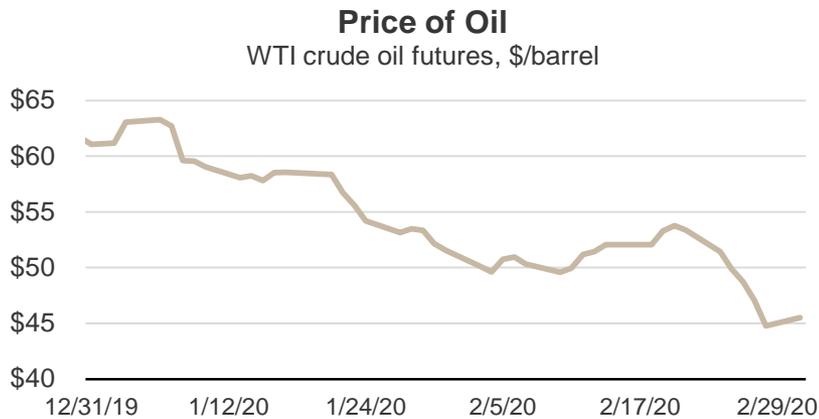
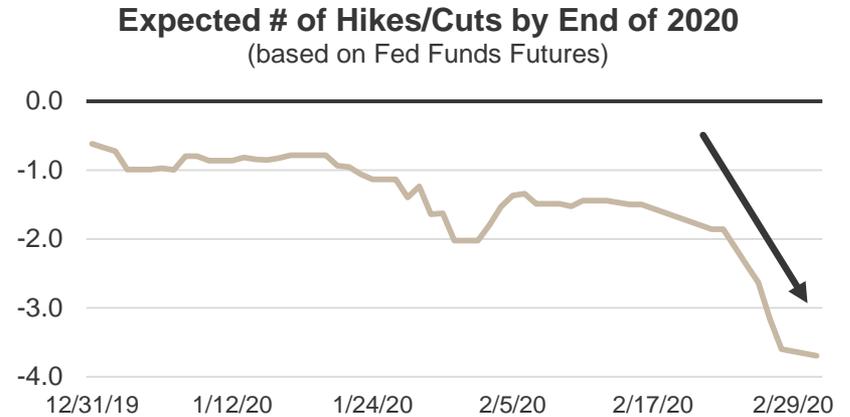
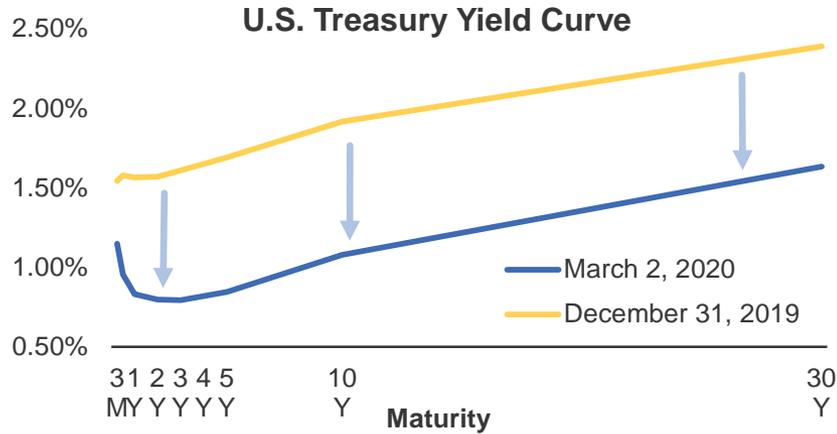
## Coronavirus' Economic Contagion

	Rank*	Country	# Cases	# Deaths	Current Status
	1	United States	88	2	Two dozen new cases over weekend, 2 deaths, now in 12 states
	2	China	80,026	2,912	World's 2 <sup>nd</sup> largest economy in state of near shutdown
	3	Japan	274	6	Shut schools nationwide for a month
	4	Germany	150		Economy probably already in recession
	5	India	5		
	6	United Kingdom	40		Early stages of negotiating post-Brexit issues
	7	France	130	2	Paris' famed Louvre Museum is closed
	8	Italy	1,704	41	Cases increased overnight by 50% to the 3 <sup>rd</sup> most of any country
	10	Canada	24		New cases in Ontario, Quebec and British Columbia
	12	South Korea	4,335	26	2 <sup>nd</sup> most cases of any country
	13	Spain	120		
	14	Australia	33	1	Commodity-based export-driven economy will suffer
	15	Mexico	5		Trump "very strongly" considering closing southern border
	20	Switzerland	24		
	25	Iran	1,501	66	4 <sup>th</sup> most cases of any country, 2 <sup>nd</sup> most deaths
	53	Algeria	3		Spread to Africa
	57	Kuwait	56		Spread to Middle East
	59	Ecuador	6		Spread to South America

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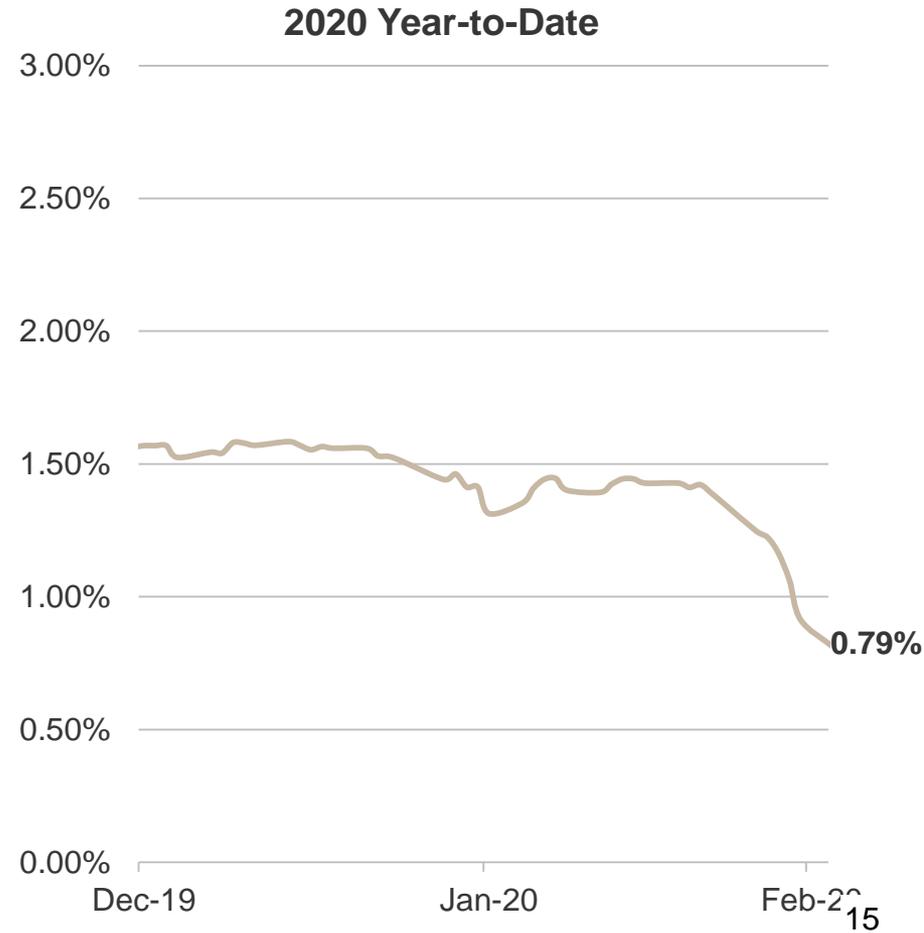


# Coronavirus Outbreak Concerns Weighing Heavily on Markets





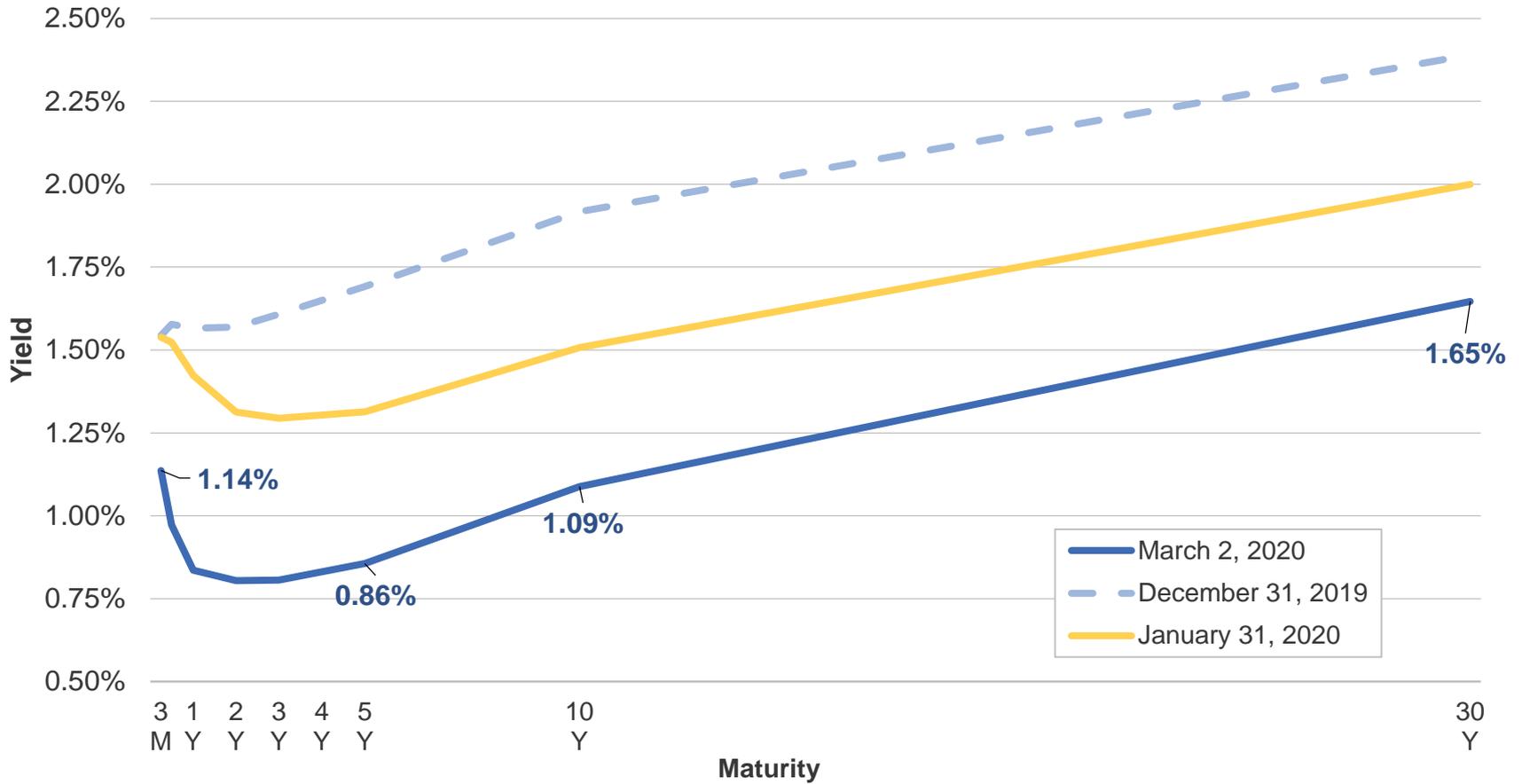
## 2-Year Treasury Yield





# Longer-Maturity Yields Drop to Historic Lows

## U.S. Treasury Yield Curve





## Combined Portfolio Composition – By Fund

<b>Fund</b>	<b>December 31, 2019</b>	<b>September 30, 2019</b>
General Fund	\$130,384,181	\$131,159,516
State Water Contract Fund	\$307,738,858	\$307,376,200
Devil Canyon/Castaic Fund	\$3,377,960	\$3,456,617
<b>Total</b>	<b>\$441,500,999</b>	<b>\$441,992,333</b>

Individual securities shown at market value including accrued interest. Numbers may not add to total due to rounding.



## Combined Portfolio Composition – By Sector

● The portfolio is in compliance with the District’s Investment Policy and the California Government Code.

<u>Security Type</u>	<u>Market Value as of December 31, 2019</u>	<u>% of Investments</u>	<u>Market Value as of September 30, 2019</u>	<u>% of Investments</u>	<u>% Change vs. 9/30/19</u>	<u>Permitted by Policy</u>	<u>In Compliance</u>
U.S. Treasury	\$204,585,989	46.6%	\$190,264,621	43.2%	+3.4%	100%	✓
Federal Agency	\$16,806,048	3.8%	\$21,776,536	4.9%	-1.1%	100%	✓
Municipal Obligations	\$3,368,092	0.8%	\$3,373,379	0.8%	-	30%	✓
Negotiable CDs	\$38,539,345	8.8%	\$40,866,010	9.3%	-0.5%	30%	✓
Corporate Notes	\$94,728,245	21.6%	\$98,680,153	22.4%	-0.8%	30%	✓
<b>Securities Sub-Total</b>	<b>\$358,027,719</b>	<b>81.5%</b>	<b>\$354,960,699</b>	<b>80.7%</b>			
Accrued Interest	\$2,364,042		\$1,986,041				
<b>Securities Total</b>	<b>\$360,391,761</b>		<b>\$356,946,740</b>				
LAIF	\$48,798,966	11.1%	\$51,412,385	11.7%	-0.6%	\$65 Million	✓
Money Market Fund	\$139,088	<0.1%	\$1,616,585	0.4%	-0.3%	20%	✓
CAMP	\$32,171,185	7.3%	\$32,016,623	7.3%	-	50%	✓
<b>Total Liquidity</b>	<b>\$81,109,238</b>	<b>18.5%</b>	<b>\$85,045,593</b>	<b>19.3%</b>			
<b>Total Investments</b>	<b>\$441,500,999</b>	<b>100.0%</b>	<b>\$441,992,333</b>	<b>100.0%</b>			

Numbers may not add to total due to rounding. Current investment policy as of January 2012.



## Summary of Fourth Quarter Trade Activity

- ◆ The U.S. Treasury yield curve twisted around the 3-year inflection point and finally un-inverted during the quarter. As a result, we continued to be thoughtful in our issuer selection and curve positioning, while also maintaining a portfolio duration in line with the District's benchmark.

### Net Activity

■ Sales/Maturities    ■ Purchases



\*Combined trade activity in the General Fund and State Water Contract Fund for the quarter ended 12/31/19. Numbers may not add to total due to rounding.



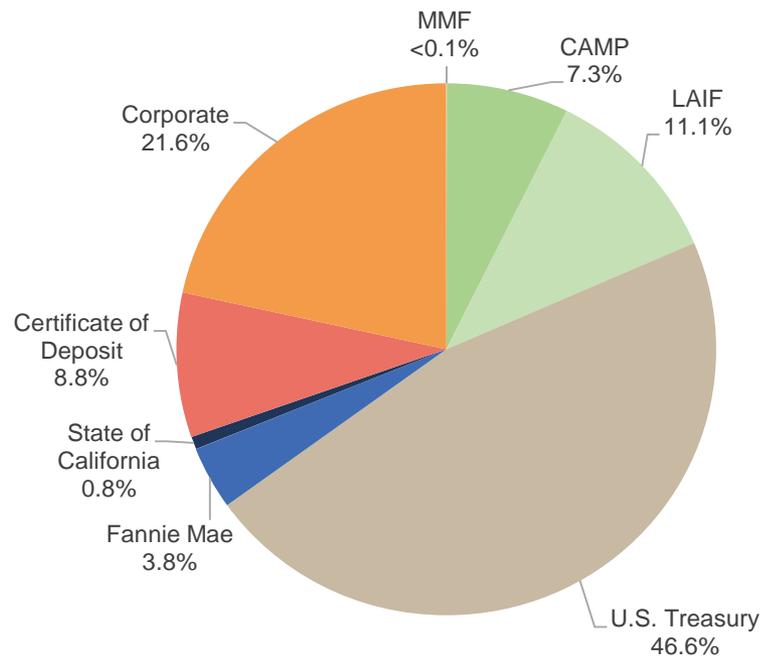
## The District's Combined Portfolio is Well Diversified

<b>Corporate Notes</b>	<b>21.6%</b>		
GE Capital Corp	1.5%	Goldman Sachs	0.3%
Wells Fargo & Co	1.5%	US Bancorp	0.3%
BNY Mellon	1.2%	Hershey Co.	0.3%
American Express	1.0%	Merck & Co	0.2%
Toyota Motor Credit	1.0%	BNSF Railway	0.2%
JP Morgan	0.8%	Honeywell International	0.2%
Pcarr Financial	0.8%	HSBC USA Inc	0.2%
Honda	0.8%	State Street	0.1%
Walt Disney	0.7%	Johnson & Johnson	0.1%
John Deere	0.7%		
Branch Banking & Trust	0.7%		
Caterpillar Financial	0.7%		
Morgan Stanley	0.7%		
Charles Schwab	0.7%		
Apple	0.7%		
Citigroup	0.6%		
Unilever	0.6%		
3M Company	0.6%		
Pfizer	0.5%		
Wal-Mart	0.5%		
Bank of America	0.4%		
Home Depot	0.4%		
United Parcel Service	0.4%		
General Dynamics	0.4%		
Visa	0.4%		
Blackrock	0.4%		
Oracle	0.3%		
Boeing	0.3%		
National Rural Utilities	0.3%		

<b>Certificates of Deposit</b>	<b>8.8%</b>
Westpac Banking NY	1.2%
Royal Canadian Bank NY	0.9%
Nordea Bank NY	0.8%
DNB Bank	0.8%
Credit Agricole CIB NY	0.8%
Skandinaviska Enskilda Banken	0.8%
MUFG Bank	0.7%
Bank of Montreal Chicago	0.7%
Bank of Nova Scotia Houston	0.7%
Swedbank NY	0.7%
Sumitomo Mitsui Bank NY	0.7%

**Issuer Allocations**  
December 31, 2019



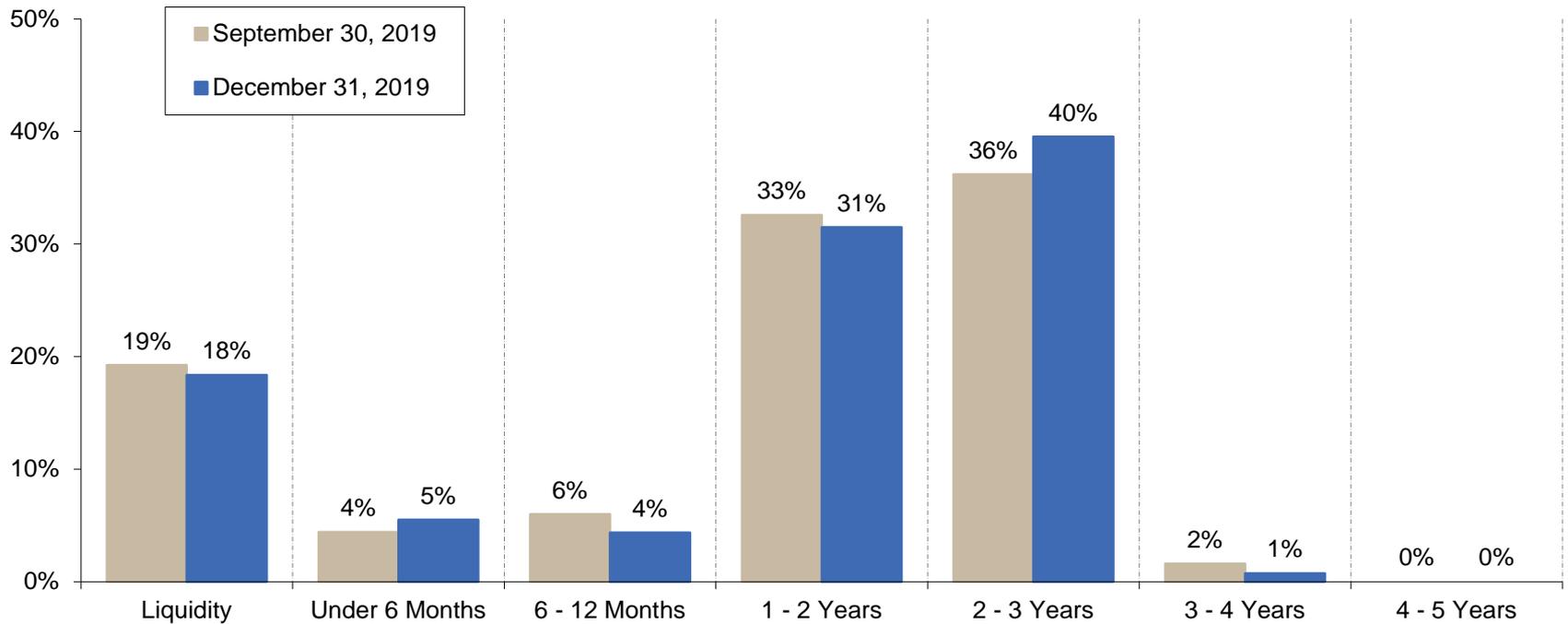
As of December 31, 2019. Numbers may not add to total due to rounding.



## Combined Portfolio Maturity Distribution

- We found the most value along the two- to three-year space of the yield curve and continued to maintain a neutral duration stance relative to the benchmark, as we expect the Fed to remain on hold for an extended period and rates to remain mostly range-bound in the near-term.

**Portfolio Maturity Distribution**  
September 30, 2019 vs. December 31, 2019

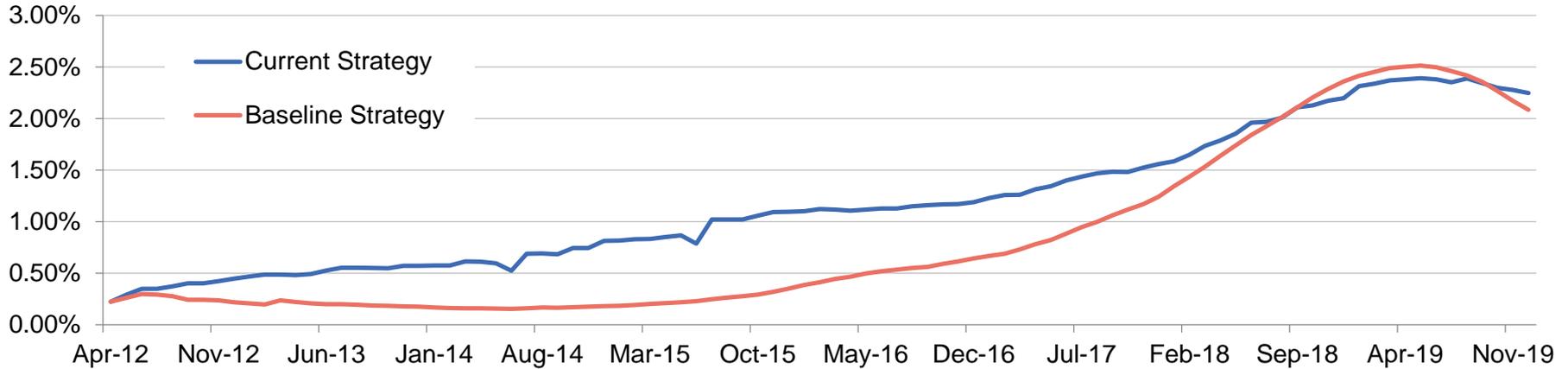


\*Numbers may not add to total due to rounding.

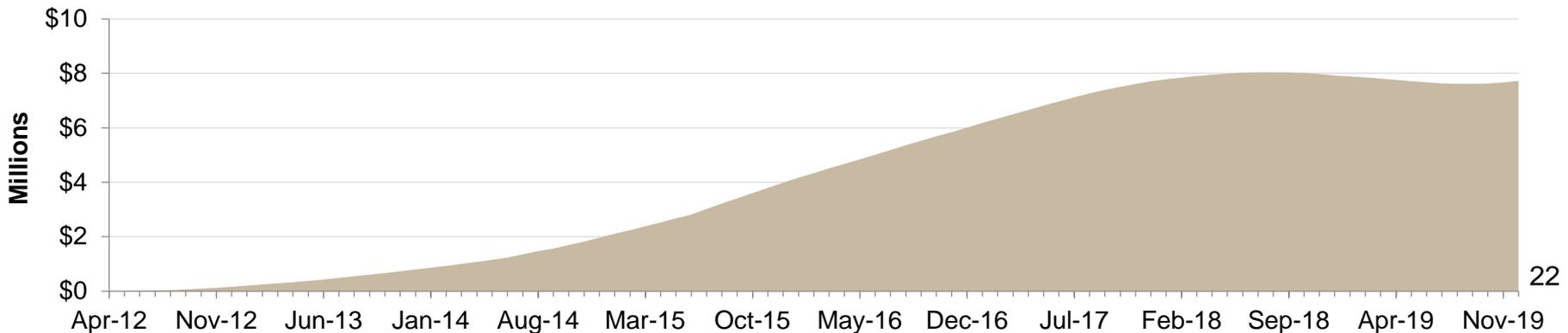


# Combined Portfolio Yield and Earnings Comparison

**Portfolio Month End Yields - Current Strategy vs. Baseline Strategy**  
December 2012 – December 2019



**Estimated Cumulative Incremental Earnings - Current Strategy vs. Baseline Strategy**  
December 2012 – December 2019





## Managed Portfolio Total Return Performance

- Total return expresses annualized rate of return over a specified period and takes into account all changes in the portfolio, including market value changes, reinvestment rates, cash flows, and interest earned plus realized gains/losses.

Periods Ending December 31, 2019					
			Annualized		
BofAML Indices	Duration (years)	Quarter	Past 12 Months	Past 3 Years	Since Inception
State Water Contract Fund	1.78	0.55%	3.95%	2.20%	1.43%
General Fund	1.77	0.54%	3.99%	2.22%	1.45%
ICE BofAML 1 Year UST Index (GC03)	0.90	0.59%	2.93%	1.78%	0.92%
ICE BofAML 1-3 Year UST Index (G1O2)	1.80	0.51%	3.55%	1.84%	1.10%
ICE BofAML 1-5 Year UST Index (GVQ0)	2.55	0.35%	4.20%	2.11%	1.32%

ICE BofAML Indices provided by Bloomberg Financial Markets.

The District's portfolios are not managed on a total return basis, so the indices are shown for information only. Performance on trade-date basis, gross (i.e., before fees), in accordance with the CFA Institute's Global Investment Performance Standards (GIPS).

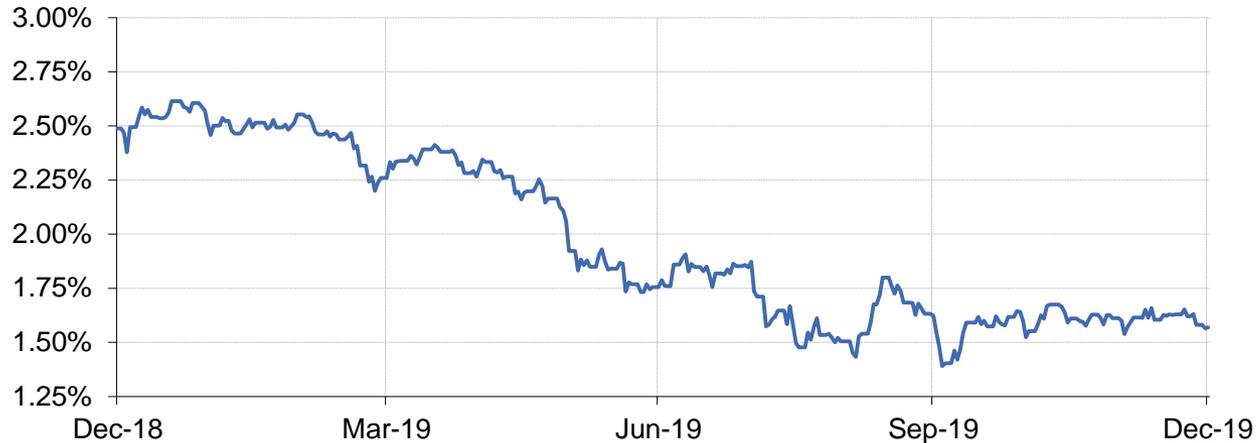
Periods less than one year are on an unannualized basis. Periods greater than one year are on an annualized basis.

Portfolio inception date as of June 30, 2012



# Managed Portfolio Earnings

**2-Year Treasury Yields**  
December 31, 2018 – December 31, 2019



Period	Q1 19	Q2 19	Q3 19	Q4 19	12-Mo. Totals
<b>Change in 2-Yr Treasury</b>	-0.23%	-0.51%	-0.13%	-0.05%	-0.92%
<b>Market Value Earnings</b>					
Interest Earned	\$1,774,291	\$2,048,706	\$2,062,688	\$2,063,971	\$7,949,656
Change in Value	\$2,071,929	\$2,979,114	\$514,615	(\$96,447)	\$5,469,212
<b>Portfolio Earnings</b>	<b>\$3,846,220</b>	<b>\$5,027,820</b>	<b>\$2,577,303</b>	<b>\$1,967,524</b>	<b>\$13,418,868</b>
<b>Accrual Earnings</b>					
Interest Earned	\$1,774,291	\$2,048,706	\$2,062,688	\$2,063,971	\$7,949,656
Change in Value	(\$361,783)	\$3,189	\$75,910	\$122,833	(\$159,851)
<b>Portfolio Earnings</b>	<b>\$1,412,508</b>	<b>\$2,051,895</b>	<b>\$2,138,598</b>	<b>\$2,186,804</b>	<b>\$7,789,806</b>

Note: Earnings are for the PFM managed portion of the District's portfolio only. Accrual earnings calculated on a trade date basis. Change in value calculated as the ending period value (market or amortized cost) less the beginning period value, plus net principal activity. Interest earned calculated as the ending accrued interest less beginning accrued interest, plus net interest activity.



## Portfolio Yield and Earnings Notes

- **Portfolio Month End Yield**

- The “Baseline Strategy” yield is a weighted average calculated by assuming 29% of the portfolio is invested in LAIF (at the average monthly yield) and the remainder of the portfolio invested in 1-year federal agencies (12-month rolling average of the month-end yield). The Baseline Strategy was reflective of the District’s investment strategy at the time PFM assumed management of the portfolio.
- The “Current Strategy” yield is a weighted average of the current yield of all of the investments in the portfolio. In aggregate, the Current Strategy represents a fundamentally different investment than the Baseline Strategy approach with a different risk profile.

- **Estimated Cumulative Incremental Earnings**

- The estimated earnings are on a yield basis and do not include realized or unrealized market value gains or losses.
- The chart shows an estimate of the cumulative additional earnings being generated by the Current Strategy versus what the Baseline Strategy would have earned over the same period.
- The estimated monthly earnings for each of the strategies is calculated by multiplying the monthly yield of the strategy by the current balance of the overall portfolio.
- The incremental earnings is simply the difference between the Current Strategy estimated monthly earnings and the Baseline Strategy estimated monthly earnings on a cumulative basis over the period shown.
- The estimates are approximations to illustrate differences in investment approaches. The District’s actual earnings will vary.



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**DATE:** March 12, 2020

**TO:** Board of Directors' Workshop – Policy

**FROM:** Matthew Howard, Water Resources Senior Project Manager

**SUBJECT:** Consider Contract Amendment to Create a Data Management System for the Yucaipa Groundwater Sustainability Agency

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The Yucaipa Sustainable Groundwater Management Agency (Yucaipa SGMA) is recommending a contract amendment to develop a Data Management System (DMS) for the Yucaipa Groundwater Sustainability Agency at an additional cost of \$68,820, before applying the remaining unspent funds from the DMS design scope of work of \$23,760, resulting in a total cost of \$45,060, with Valley District's share being \$2,816.

### **Background**

The Sustainable Groundwater Management Act (SGMA) went into effect on January 1, 2015 by identifying unmanaged, or un-adjudicated basins throughout the State of California. For each of these unmanaged basins, a Groundwater Sustainability Agency is required to be established and to prepare a Groundwater Sustainability Plan (GSP). The only principal basin or sub-basin that is not managed, or adjudicated, within the Valley District service area is the Yucaipa Basin.

On June 22, 2017, San Bernardino Valley Municipal Water District (Valley District) joined the City of Redlands, San Geronio Pass Water Agency, South Mesa Water Company, South Mountain Water Company, Western Heights Water Company, the City of Yucaipa and the Yucaipa Valley Water District to form the Yucaipa SGMA under the Sustainable Groundwater Management Act (SGMA). Further, the Yucaipa SGMA is required to submit a Groundwater Sustainability Plan (GSP) by January 31, 2022.

Even before SGMA was enacted, Valley District was working collaboratively with the water agencies and San Bernardino County to develop a groundwater management plan, now

referred to as a GSP under SGMA, for the Yucaipa Basin. The following work has been completed, or is currently in progress, that will benefit the proposed GSP:

- Determination of the safe yield and basin capacity (2013)
- Calculation of the change in groundwater storage and identification of potential groundwater recharge sites (2014)
- Preliminary field evaluation of recharge potential using exploratory borings (2014)
- Field recharge testing work plan (2017)
- Field recharge testing (2018)
- Develop a groundwater flow model for the Yucaipa Sub-basin area (USGS, 2020, nearing completion)

One of the SGMA requirements is to manage data electronically using a Database Management System (DMS). Data that is collected in the field, such as water levels, infiltration rates, or stream flows, will be stored real time in the DMS providing a streamlined approach to data management. The DMS will also have the capability of exporting reports for other State program such as the California Statewide Groundwater Elevation Monitoring (CASGEM) program and the State Water Resources Control Board (SWRCB) Groundwater Ambient Monitoring and Assessment program (GAMA).

In December 2019, the Yucaipa SGMA contracted with Dudek to develop the GSP for the Yucaipa Basin. The Dudek contract included \$36,240 to design the DMS but did not include any funds to develop the DMS. Dudek not need the entire budget amount of \$36,240 to design the DMS, so the remainder of the budget amount of \$23,760 in this task has been applied toward the cost of developing the DMS. The sub-total cost of the Dudek DMS proposal is \$68,820 with the remainder of the DMS design budget applied to the proposal cost resulting in the total cost of \$45,060. The Dudek DMS proposal includes the development of the DMS, installation and training on field data collection devices, onsite training and testing of the DMS, and the final deployment of the DMS. The proposal also includes one year of hosting the DMS on Dudek computer servers.

The Yucaipa SGMA Memorandum of Agreement allocates 75% of costs to the retail water agencies which include South Mesa Water Company, South Mountain Water Company, Western Heights Water Company and Yucaipa Valley Water District. The remaining 25% is then allocated to the regional water agencies which include San Bernardino Valley Municipal Water District, San Gorgonio Pass Water Agency, City of Redlands and the City of Yucaipa.

**Fiscal Impact:**

The net fiscal impact to Valley District is \$2,816. However, if approved, Valley District would amend the contract for the entire \$45,060. This item was not known during the development of the FY 2019-20 General Fund Budget, and therefore not included in the approved budget. Unspent funds that were budgeted for this project can be used to cover this work. Valley District will invoice the Yucaipa SGMA agencies for the remaining total of \$42,243.

**Staff Recommendations:**

Forward this item to the next regular Board of Directors' meeting for consideration.

**Attachments:**

Dudek Proposal to Develop a Data Management System for the Yucaipa SGMA

December 4, 2019

11507-19

Mark Iverson, President  
Yucaipa Basin Groundwater Sustainability Agency  
32352 Avenue D  
Yucaipa, California 92399-1801

**Subject:** *Proposal to Develop a Data Management System for the Yucaipa-GSA*

Dear Mr. Iverson:

Dudek is pleased to present this proposal to develop a data management system (DMS) for the Yucaipa Groundwater Sustainability Agency (Yucaipa-GSA). Dudek will follow the DMS framework we developed as part of the original scope of work for developing a Groundwater Sustainability Plan (GSP) for the Yucaipa Basin. The DMS framework was presented to the Yucaipa-GSA in a technical memorandum on October 29, 2019. In summary, the DMS framework technical memorandum detailed the database structure and the development process. This process begins with adding historical data that has been vetted and confirmed accurate and relevant for characterizing groundwater conditions in the Yucaipa Basin. The DMS framework technical memorandum also identified how future data will be incorporated into the DMS, and how data will be disseminated to users accessing the DMS database via an internet portal. The data will be stored in a Geographic Information System (GIS) relational geodatabase format. The data will be housed in a versioned ESRI Enterprise Geodatabase (GDB) and will run on a SQL Server platform.

The task of developing the DMS framework had a budget of \$36,240. Of that amount, \$12,480 was used to develop the DMS framework and prepare a technical memorandum. The remaining \$23,760 is available to offset the cost of developing a DMS for the Yucaipa-GSA.

The following presents our scope of work for designing the user interface, building, testing, and deploying a fully-functional DMS for the Yucaipa-GSA.

## Scope of Work

The goal of a Data Management System (DMS) is the effective communication of data between teams and sources. For the Yucaipa-GSA, the DMS will be a system capable of incorporating data from multiple sources and streams into consistent information, delivered at the right place and the right time.

The architecture of modern database systems is ideal for managing the various data collection tools and platforms used by the member agencies of the Yucaipa-GSA. The most efficient database management is to build effective integrations between systems, to centralize the data with the understanding that the input sources can—and most likely will—change in the future, but the underlying goals remain the same.

In the DMS architecture, each primary source of data serves as the single source of truth for the information it contains, and the data from each source would flow through the DMS to become available at the right time for

reports and analytics. In a properly configured DMS, a piece of data, once entered, would not need to be entered a second time to be used by other areas of the system.

Leveraging the DMS framework design previously completed and presented to the Yucaipa GSA in our October 2019 technical memorandum, we propose taking the following next steps in building the DMS:

- Task 1 - User Interface Design
- Task 2 - Build
- Task 3 - Optional Add-in: Field Team Mobilization Tools
- Task 4 - Test
- Task 5 - Deploy

## Task 1 – User Interface Design

This first task of DMS development will set the precedent for future design patterns, practices, policies, and conventions; therefore, it is crucial to invest properly in planning and design to reach a shared agreement on the desired functionality and most effective approach.

This does not mean the structure must be set in stone and never deviate. To the contrary, the central goal of the design phase is to establish a flexible approach that is resilient to inevitable future changes, with distributed components that adhere to standards-compliant conventions, provides for succession planning, and maximizes intercommunication while minimizing dependencies. Think of the Yucaipa-GSA's DMS as the “glue” holding together the data systems used to help manage the Yucaipa Basin sustainably.

Beyond setting high-level organizational DMS structure during this design iteration, we will work with the Yucaipa-GSA to incorporate and develop functionality necessary to accomplish their goals.

We propose completing Task 1 with the following steps:

- Conduct a one-day kick-off workshop with representatives from the member agencies of the Yucaipa-GSA that will participate in the development of the DMS:
  - Meet with the Yucaipa-GSA IT staff (SBVMWD has offered to provide IT support on behalf of the Yucaipa GSA) in early January 2020 (date to be determined) to identify the appropriate hardware and software components and architecture for DMS user interface development, and identify constraints and considerations with respect to operating systems, software, licensing, and security/firewalls.
  - Discuss third-party software currently used by members of the Yucaipa-GSA and explore the service/support levels of each to discuss options for optimizing the use of these tools.
- Conduct post-workshop planning:

- Develop strategies for importing legacy data from each source. Determine how much past data to load into the DMS, and how to best phase this process if necessary to maintain forward progress.
- Plan strategies for phasing out paper/manual entry where possible.
- Decide on a platform for reporting and analytics (e.g., ESRI Insights, ESRI Operations Dashboard, or custom).
- Identify opportunities for “health checks” (i.e., test scripts that run in the background to detect possible issues).

Assumptions:

- Dudek will assist the GSA in identifying appropriate staff to attend the workshop.
- During the one-day workshop to kick off the project, necessary staff will be available to participate for relevant session(s).
- We assume up to two one-hour conference calls with participating members of the GSA to discuss the progress in developing the user interface design of the DMS following the workshop. The schedule for these project progress calls will be determined at the kick-off workshop.
- Dudek will not begin work on the following tasks until the Yucaipa-GSA approves the DMS hardware and software components, and architecture in a technical memorandum delivered to the Yucaipa-GSA at the conclusion of this task.
- As a courtesy, we will not charge direct costs for travel to the Yucaipa-GSA office/meeting locations.

Deliverables:

- We will provide a technical memorandum, delivered electronically, which summarizes the agreed-upon DMS hardware and software components, and architecture. This technical memorandum focuses on the front end user facing technology and complements the previously completed technical memorandum outlining the database structure.

**Cost for Task 1 .....\$14,800.00**

## Task 2 - Build

Once the conceptual design of the user interface is established, we will develop a prototype of the user interface to share with participating members of the GSA to test, including wireframes (mock-ups) of the design. Our application development team develops in rapid iterations to modify the prototype after receiving feedback from the test users to quickly evaluate how those modifications improve performance and/or functionality. This is especially important early in the process, when fundamental design decisions and assumptions may require adjustment.

We plan to meet with the Yucaipa-GSA during the regularly scheduled monthly GSA workshops/Board meetings between January and April 2020.

While Task 1 will design the user interface structure of the DMS, we envision building the Yucaipa-GSA's DMS with a combination of the following tools and technologies:

- Application Database(s)
  - Microsoft SQL Server
  - ESRI Enterprise Geodatabase (i.e., ArcSDE)
- Custom Web Application for Administration and QA/QC
  - Microsoft Windows Server + Internet Information Server (IIS) for serving the application
  - JavaScript for the client-side application
  - Python API for serving data to the application
  - Functionality would center on data QA/QC workflows, and would include user management, access control levels, and alerts/notifications.
- Geocortex Reporting,, ESRI Operations Dashboard, or Zerion Connect for reporting/analytics

Assumptions:

- Dudek will host components of the DMS during development, and for up to twelve months after completion of development of the DMS at no additional cost to the Yucaipa-GSA; after this time, a monthly hosting fee may apply for continued hosting. The fee would be relative to the server requirements needed to host the application (i.e., Dudek would pass the cost through to the Yucaipa-GSA based on actual usage).
- Dudek will work with IT staff have access to the appropriate Yucaipa-GSA hosting servers and data necessary to develop the DMS.
- We assume legacy data will be clean enough to import into the DMS as-is, or with minimal automated/scripted cleanup. We will leverage prior data cleanup performed by Dudek as part of the development of the GSP.
- The Yucaipa-GSA will be responsible for third-party licensing costs and determining the cost sharing mechanism among member agencies; Dudek will assist the Yucaipa-GSA in understanding these costs prior to adding new licensing requirements.
- We assume up to three review meetings for the user facing web application: one at the wireframe stage, one at 50% completion, and one at 100% completion.

- We offer the option of a biweekly call throughout the development process; these calls are brief 15-minute status updates to identify progress and potential roadblocks, with actual issue resolution occurring offline or via separate conversations.

Deliverables:

- For the cost provided in this task, we will deliver a draft release of the DMS including:
  - One central Enterprise Geodatabase (GDB)
  - One automated integration health check
  - Legacy data import (see assumptions)
  - One administration QA/QC dashboard
  - One reporting/analytics dashboard (ESRI Operations Dashboard, or other—TBD based on Task 1 planning).

**Cost for Task 2 .....\$29,600.00**

## Task 3 – Field Team Mobilization Tools

As part of Task 2 development, we will include tools for improved field crew planning, mobilization, and navigation. These options include:

- ESRI Collector for map-centric spatial data collection in the field, on any mobile device.
- ESRI Workforce for office-based planning of field crew efforts, to optimize routes and divide work effectively among teams.
- ESRI Navigator to assist field personnel with navigating data to assets.

Deliverables:

- Draft user documentation for the mobile applications
- One ESRI Collector application (will be integrated with the GDB by default, TBD based on Task 1 planning)
- One ESRI Workforce/Navigator implementation (requires additional licensing cost, TBD based on Task 1 planning).

**Cost for Task 3 .....\$4,440.00**

## Task 4 – Test

Testing will be ongoing during Task 2; however, we find it beneficial to have a dedicated testing phase toward the end of development, prior to production. This allows a larger group of users to test the implementation before going live. This will give users a hands-on opportunity to evaluate the draft version of the DMS implementation to provide feedback, and will serve as a first form of training to create power users who can assist others in learning the system.

### Assumptions:

- Biweekly calls during testing (same as Task 2).
- One on-site beta-tester training held at the Yucaipa-GSA offices or meeting location. This meeting will be scheduled after the first weeks of beta testing and feedback received from the participating members of the GSA.
- The purpose of beta testing is to identify small issues and bugs with the goal of achieving desired functionality as previously defined in Task 1.

### Deliverables:

- Completed “beta” release of the DMS
- Draft user documentation

**Cost for Task 4 .....\$11,100.00**

## Task 5 – Deploy

Deployment and training are essential to a successful rollout and adoption of the DMS. Users will need to understand the system and their role in maintaining it, as well as be empowered to train others and take ownership in their day-to-day work using the DMS.

We will provide on-site training for both staff and IT prior to making the final migration, deployment, and rollout of the DMS. We will also provide post-deployment support to the Yucaipa-GSA staff and IT.

### Assumptions:

- SBVMWD, on behalf of the Yucaipa-GSA, will have sufficient server infrastructure to host the DMS implementation (database, applications, scripts, and automated jobs), will be able to procure the hardware/licensing needed to host this system (based on specifications defined during Task 1), or will enter into an agreement with Dudek to continue hosting the DMS.
- Documentation will be provided as-is.

- Post-deployment, we will provide up to 20 hours of support under this scope; additional support would be available for a flat rate of \$185/hr unless otherwise specified in a subsequent contract/amendment.

Deliverables:

- Production deployment and rollout of version 1.0 the DMS
- Online user documentation
- One on-site staff training (screen casted or recorded, if desired)
- Technical whitepaper-style documentation of DMS architecture and roadmap
- One on-site IT training (screen casted or recorded, if desired)

**Cost for Task 5 .....\$8,880.00**

## Schedule

The tentative date to conduct the one-day kick-off meeting with representatives of the member agencies participating in the development of the DMS is January 6, 2020. The kick-off meeting is flexible to shift to another date to accommodate the schedules of participating representatives since January 6 comes right after the Christmas Holiday season, but we recommend that the kick-off meeting be held in the first two weeks of January 2020 in order to meet the proposed deployment date of the DMS in November 2020 (please see attached schedule).

## Fee Summary

The fee presented in this proposal will be charged on a time and materials basis in accordance with Dudek’s 2019 Standard Schedule of Charges. The time and materials fee provided in this proposal represents an estimate of the anticipated level of effort required to complete the tasks described in the proposal. Should the actual effort required to complete the tasks be less than anticipated, the amount billed will be less than the total fee. Conversely, should the actual effort to complete the proposed tasks be greater than anticipated, additional fee authorizations will be requested. No work in excess of the proposed fee or outside of the proposed scope of work will be performed without written authorization from the Yucaipa-GSA.

**Sub-Total Cost .....\$68,820.00**

Applying the remaining funds from our task of developing the DMS framework for the Yucaipa Basin GSP, the fee to develop a fully-functional DMS for the Yucaipa-GSA is \$68,820 - \$23,760 = **\$45,060**. The fee of \$45,060 will need to be funded from sources outside the 2018 Prop 1 Grant Agreement between DWR and SBVMWD.

**Total Cost .....\$45,060.00**

Mr. Mark Iverson, President Yucaipa-GSA

Subject: Proposal to Develop a Data Management System for Yucaipa-GSA

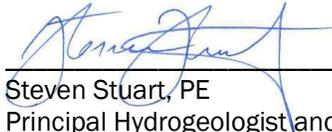
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**Table 1. Data Management System Tasks**

<b>Task</b>	<b>Expected Time to Complete</b>	<b>Cost</b>
1.1. Design	1-2 months	\$14,800.00
1.2. Build	2-4 months	\$29,600.00
1.3. Field Team Mobilization Tools	2-4 weeks	\$4,440.00
1.4. Test	2-4 months	\$11,100.00
1.5. Deploy	2-4 weeks	\$8,880.00
	<b>Sub-Total</b>	<b>\$68,820.00</b>
Remaining Funds from DMS Framework Design in GSP Development Scope of Work to Apply to the Sub-Total		<b>\$23,760.00</b>
	<b>Total</b>	<b>\$45,060.00</b>

If you have any questions regarding this scope of work and fee, please call me at 760-479-4128.

Sincerely,



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Steven Stuart, PE  
Principal Hydrogeologist and Project Manager

- Att.: Schedule to Develop a DMS for the Yucaipa-GSA  
cc: David Armstrong, Vice-President Yucaipa-GSA, South Mesa Water Company  
Joe Zoba, Secretary Yucaipa-GSA, Yucaipa Valley Water District  
Bob Tincher, Treasurer Yucaipa-GSA, San Bernardino Valley Municipal Water District  
Matt Howard, San Bernardino Valley Municipal Water District  
Matt Palavido, Dudek  
Kyle Harper, Dudek

## YUCAIPA BASIN GSA DMS DEVELOPMENT

### 1 User Interface Design

- Kick-off Workshop
- Develop Data Import Strategies
- Define Data Input / Field Data Collection Strategies
- Determine Reporting Platform
- Identify Health Checks
- Technical Memorandum

### 2 Build

- Set Up Geodatabase
- Enterprise Geodatabase
- Web Application Development
- Reporting Platform Configuration
- Beta Applications

### 3 Field Team Mobilization Tools

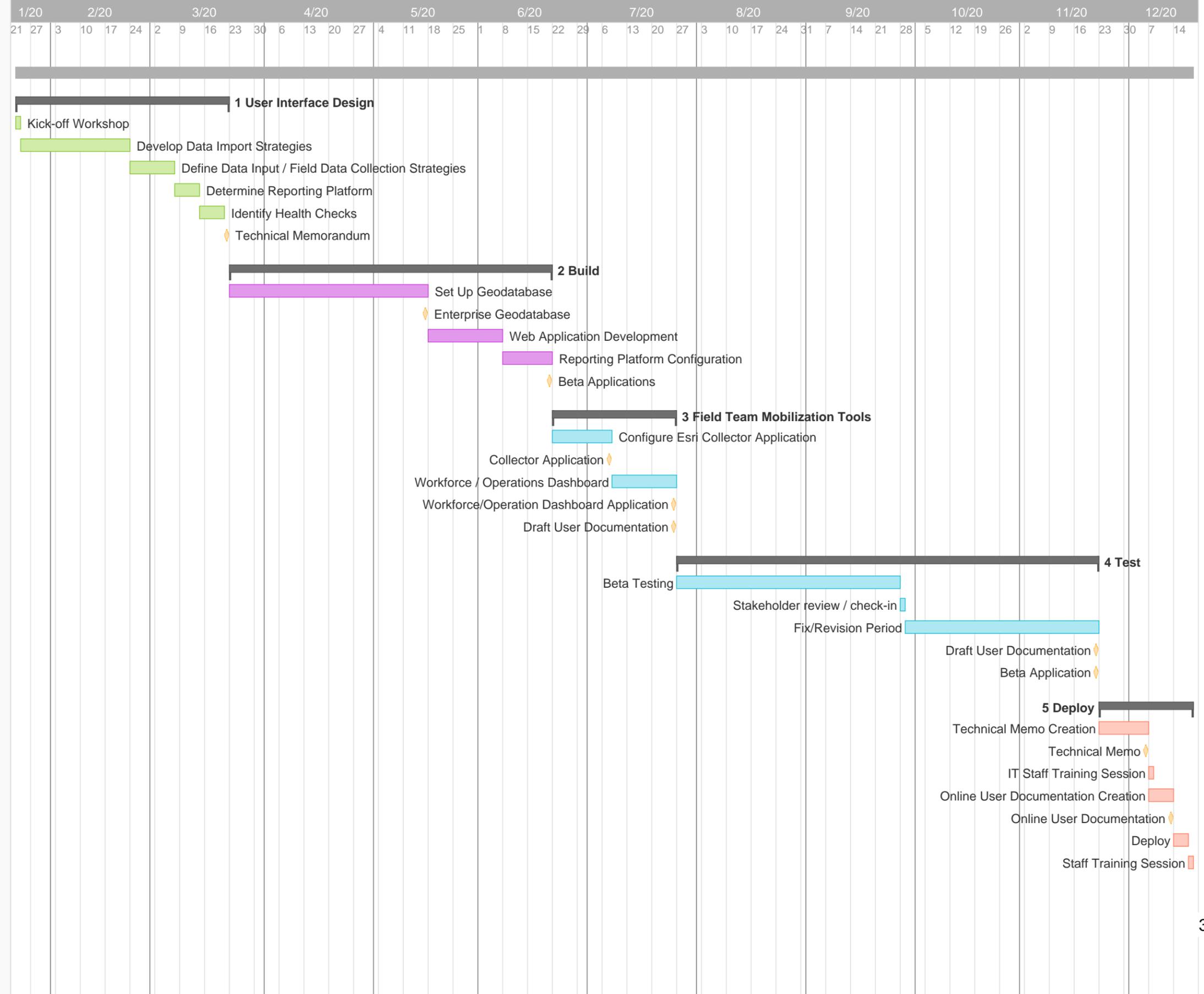
- Configure Esri Collector Application
- Collector Application
- Workforce / Operations Dashboard
- Workforce/Operation Dashboard Application
- Draft User Documentation

### 4 Test

- Beta Testing
- Stakeholder review / check-in
- Fix/Revision Period
- Draft User Documentation
- Beta Application

### 5 Deploy

- Technical Memo Creation
- Technical Memo
- IT Staff Training Session
- Online User Documentation Creation
- Online User Documentation
- Deploy
- Staff Training Session





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**DATE:** March 12, 2020

**TO:** Board of Directors' Workshop - Policy

**FROM:** Wen Huang, Chief Engineer  
Mike Esquer, Senior Project Manager  
Brent Adair, Project Manager

**SUBJECT:** Update on the Citrus Reservoir Floating Cover System Project

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The purpose of this memorandum is to provide an update on the Citrus Reservoir and Pump Station Project (Project). On December 17, 2019, the Board of Directors approved a budget of \$295,000 for the 2020 Annual Facility Maintenance and Repair Program, of which \$280,000 was budgeted for implementation of corrective measures for the floating cover system at the Citrus Reservoir. Staff will provide a presentation with photos during the Workshop.

The reservoir has been in continuous service since June 2017. On November 6, 2018, the Board of Directors authorized procurement of the Rhombo Hexoshield floating cover system to comply with mitigation requirements for the Citrus Reservoir provided in the Wildlife Hazard Management Plan (WHMP) prepared and adopted by the California Department of Water Resources (DWR) as part of the East Branch Extension (EBX) Phase 2 Project. Since then, over 3.7 million balls out of a total of 7.5 million balls have been deployed in the reservoir. Based on the recent biological monitoring events, the floating cover, even at less than half completed, has been very effective deterring migratory birds from using the reservoir.

In November 2019, there was evidence that some of the rhomboidal shaped balls have developed holes, sunk and subsequently been pulled into the reservoir pumps. Since then, the Citrus Pump Station has been shut down for investigations. Through the collaboration with DWR staff, corrective measures have since been identified. On December 17, 2019, the Board approved a budget of \$280,000 related to the Project. Due to a relatively-low State Water Project allocation so far for this year, deliveries to our customers on the east end of the District's service area and

to San Gorgonio Pass Water Agency (SGPWA) have been successfully met through the Greenspot Pump Station without being impacted by the shutdown of the Citrus Pump Station.

In cooperation with DWR, Valley District staff has begun to drain the reservoir using the Citrus Pump Station. However, it is anticipated that a rental dewatering pump may be required to complete the draining of the reservoir at an estimated cost of \$34,912. DWR staff has also begun deployment of a floating debris boom and net system designed to keep the rhomboidal balls from entering the Citrus Pump Station intake gallery. District staff has also worked with DWR staff to complete the design of pump screens at each pump intake column to protect against any future intake of debris or balls that may plug up the pumps. The cost to complete fabrication of the pump screens is \$81,056 and is expected to be completed in April 2020. Upon receipt of the pump screens District and DWR staff will begin installation. Anticipated District costs for installation are \$10,000, which includes pump screen isolation kits and equipment rentals. In addition, a qualified well or pump company will perform inspection and repair (estimated cost of \$25,000) of the pump columns when the reservoir has been completely drained.

The total estimated Project cost is approximately \$151,000, which will be shared with SGPWA (22.6%), and is expected to be completed in the 2<sup>nd</sup> quarter 2020. Staff will provide a follow-up update on the Project and associated final cost upon completion of the Project.

**Staff Recommendation:**

Receive and file.



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**DATE:** March 12, 2020  
**TO:** Board of Directors' – Policy Workshop  
**FROM:** Matthew Howard, Senior Water Resources Project Manager  
**SUBJECT:** Update on Groundwater Sustainability Councils

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The Sustainable Groundwater Management Act (SGMA) went into effect on January 1, 2015 by identifying unmanaged, or un-adjudicated basins throughout the State of California. For each of these unmanaged basins, a Groundwater Sustainability Agency is required to be established and to prepare a Groundwater Sustainability Plan (GSP). The only principal basin or sub-basin that is subject to SGMA within the Valley District service area is the Yucaipa Basin. The Yucaipa SGMA is required to submit a Groundwater Sustainability Plan (GSP) by January 31, 2022.

In the San Bernardino Basin, a voluntary groundwater council was developed and a similar type group is being developed in the Rialto Basin. A summary of the activity by each of these groups is included below:

*San Bernardino Basin Groundwater Council*

The San Bernardino Basin Area (SBBA) Groundwater Council was established in 2017 to cooperatively manage and ensure a sustainable groundwater supply for the San Bernardino Basin Area. At its February 10, 2020 meeting, the SBBA Groundwater Council approved the formation of a Data Review/Quality Control committee that will evaluate the quality of the data used in the Equitable Allocation Model (EAM). To improve the quality of the flow data used in the EAM, flow meters will be installed at North Fork Flume, Redlands Sandbox, and Cooley Hat.

The SBBA Groundwater Council reviewed its draft 2020 budget that includes a total State Water Project (SWP) water cost of \$2,797,116 for 23,624 acre-feet and also includes 5,277 acre-feet of local water which, when combined, meets the total Basin Sustainability objective of 28,823 acre-feet. The 2020 budget also includes an annual operations and maintenance budget of \$670,000 which goes primarily to the San Bernardino Valley Water Conservation District. The SBBA Groundwater Council also received a draft of its first Annual Report which summarizes the goals, status and accomplishments from 2019, and outlines the goals for 2020. The 2020 budget and Annual Report are expected to be approved at the next meeting of the SBBA GC.

### *Rialto Basin Groundwater Council*

The pumpers in the Rialto Basin consist of the City of Rialto, the City of Colton, Fontana Union Water Company and West Valley Water District (collectively “Parties”). The Parties are currently working on developing a framework agreement that would create a groundwater council for this basin. The framework agreement generally outlines the governance structure and the groundwater sustainability management activities that would be undertaken by the Parties. The framework agreement is currently under legal review by the Parties.

### *Yucaipa Sustainable Groundwater Management Agency*

The Yucaipa Groundwater Basin is the only basin within the Valley District service area that is subject to Sustainable Groundwater Management Act (SGMA). The Yucaipa Sustainable Groundwater Management Agency (Yucaipa SGMA) was established in 2017 and is currently developing Yucaipa Groundwater Sustainable Plan (GSP) which is a groundwater management plan that this group started working on about three years ago. The specific requirements for the Yucaipa GSP are provided in the SGMA and generally include an evaluation of supplies and demands into the future and a sustainable plan for meeting future demands. The Yucaipa GSP will also provide a general framework for managing the basin that will likely include “triggers” based upon basin storage levels and water levels. The USGS Yucaipa Groundwater Model, funded by Valley District, will be used to develop the plan and to manage the basin. The Yucaipa GSP is due January 31, 2022.

The Yucaipa SGMA is also working with DWR on an additional stream gage along the Yucaipa Creek at the Live Oak Canyon Rd Bridge that would be funded by DWR. The next steps for the Yucaipa SGMA are to evaluate the potential recharge projects that will be included in the GSP, calculate the water budget, establish undesirable results and hold the first public meeting which is tentatively set for March 2020.

### **Fiscal Impact:**

None.

### **Recommended Action:**

Receive and File.