

### **Notice of Public Meeting**

### The Board of Retirement

of the San Mateo County Employees' Retirement Association will meet on

### Tuesday, April 28, 2020, at 10:00 A.M.

In accordance with the Governor's Executive Order N-29-20 (3) the Members of the Board will be participating via teleconference. Pursuant to Government Code §54954.3, members of the public, to the extent required by law, will have the opportunity to directly address the Board concerning matters within the jurisdiction of the Board.

The public may listen to the Public Session and offer comment by calling: 1-888-278-0296 and use Participant Code: 323278.

Persons who wish to address the Board may also submit written comments via email to samcera@samcera.org at least 30 mins before the start of the Board meeting. Please include your name, agenda item, and your comment. The Board will have the email read into the record and attached to the minutes.

PUBLIC SESSION - The Board will meet in Public Session at 10:00 a.m.

- 1. Call to Order, Roll Call and Miscellaneous Business
- 2. Oral Communications
  - 2.1 Oral Communications from the Board
  - 2.2 Oral Communications from the Public
- 3. Approval of the Minutes
  - 3.1 Approval of Regular Board Meeting Minutes from March 24, 2020
  - 3.2 Approval of Special Board Meeting Minutes from April 6, 2020
- 4. Approval of the Consent Agenda\*
  - 4.1 Disability Retirements (1)
    - Barlaan, Imelda
  - 4.2 Survivor Death Benefits (1)
    - Cabaj, Robert
  - 4.3 Service Retirements
  - 4.4 Continuances
  - 4.5 Deferred Retirements
  - 4.6 Member Account Refunds
  - 4.7 Member Account Rollovers

- 4.8 Member Account Redeposits
- 4.9 Report of Trustee Education Received
- 4.10 Correction of Monthly Benefit Payment
- 4.11 Approval to Renew Fiduciary Liability
  Insurance Policy
- 4.12 Approval of 10th Amendment to Contract with Vitech Systems Group, Inc.
- 4.13 Approval of Resolutions that define Comp
  Earnable and Pensionable Comp

### 5. Benefit & Actuarial Services

- 5.1 Consideration of Agenda Items, if any, removed from the Consent Agenda
- 5.2 Discussion of Actuarial Assumptions for the June 30, 2020 Actuarial Valuation

### 6. Investment Services

- 6.1 Preliminary Monthly Portfolio Performance Report for the Period Ended March 31, 2020
- 6.2 Report on Cash Overlay Manager Annual Review
- 6.3 Report on Global Custodian Annual Review
- 6.4 Approval of Public Real Asset Restructuring
- 6.5 Approval of Core Bond Fixed Income Manager
- 6.6 Approval of International Equity Manager Structure
- 6.7 Approval of Potential Sale of Alternative Investment (to be heard in Closed Session, Confidential under Gov. Code §54956.81 and §6254.26, see item C2)

### 7. Board & Management Support

### 8. Management Reports

- 8.1 Chief Executive Officer's Report
- 8.2 Assistant Executive Officer's Report
- 8.3 Chief Investment Officer's Report
- 8.4 Chief Legal Counsel's Report

### **CLOSED SESSION** – The Board may meet in closed session prior to adjournment

- C1 Consideration of Disability Items, if any, removed from the Consent Agenda
- C2 Approval of Potential Sale of Alternative Investment (Confidential under Gov. Code §54956.81 and §6254.26 see also item 6.7)
- 9. Report on Action Taken in Closed Session

### 10. Adjournment in Memory of the Following Deceased Members:

March 18, 2020	Crystal Springs Rehab Center
March 19, 2020	Sheriff's
March 22, 2020	Supt of Schools
March 22, 2020	Health
March 27, 2020	Library
March 29, 2020	Sheriff's
	March 19, 2020 March 22, 2020 March 22, 2020 March 27, 2020

Scott Hood, Chief Executive Officer Posted: April 22, 2020

(\* All items on the Consent Agenda are approved by one roll call motion unless a request is made by a Board member that an item be withdrawn or transferred to the Regular Agenda. Any item on the Regular Agenda may be transferred to the Consent Agenda. Any 4.1 items removed from the Consent Agenda will be taken up under Closed Session; all other items removed from the Consent Agenda will be taken up under closed Session; all other items removed from the Consent Agenda will be taken up under item 5.1.)

A copy of the Board of Retirements' open session agenda packet is available for review at <a href="https://www.samcera.org">www.samcera.org</a>.

IN COMPLIANCE WITH THE CALIFORNIA GOVERNMENT CODE AND THE AMERICANS WITH DISABILITIES ACT:

Persons who require accommodation to listen and or participate in this meeting, or to review the written agenda of the Board, may obtain assistance by requesting such accommodation by email addressed to: samcera@samcera.org or calling (650) 599-1234 and leaving a message. Any such request for accommodation should be made at least 48 hours prior to the scheduled meeting for which assistance is requested. Notification in advance of the meeting will enable SamCERA to make reasonable arrangements.

### SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION

MARCH 24, 2020 – REGULAR BOARD MEETING MINUTES

### 2003.1 Call to Order, Roll Call and Miscellaneous Business

**Call to Order:** Mr. Hoefer, Chair, called the Regular Meeting of the Board of Retirement to order at 10:00 a.m. via teleconference.

#### **Roll Call:**

Present: Mark Battey, Ben Bowler, Al David, Paul Hackleman, Kurt Hoefer, Katherine

O'Malley, Robert Raw and Eric Tashman.

Absent: Sandie Arnott.

Alternates present: Susan Lee and Alma Salas.

Staff: Tariq Ali, Brenda Carlson, Michael Coultrip, Lili Dames, Scott Hood, Elizabeth LeNguyen,

Doris Ng, Gladys Smith and Anne Trujillo.

Consultants and speakers: Joe Abdou and Margaret Jadallah (Verus).

- 2003.2.1 **Oral Communications from the Board:** None.
- 2003.2.2 **Oral Communications from the Public:** None.
- 2003.3.1 Approval of Regular Board Meeting Minutes from February 25, 2020: Mr. Hoefer asked if there were any changes or corrections, or objections, to the meeting minutes from the Board meeting held on February 25, 2020.

**Action:** Mr. David moved to approve the minutes from the Board meeting on February 25, 2020. The motion was seconded by Ms. O'Malley and carried with a vote of 6-0, with trustees Battey, David, Hoefer, O'Malley, Raw and Tashman all in favor; Bowler and Hackleman abstained; none opposed.

2003.4.0 **Approval of the Consent Agenda:** Mr. Hoefer asked if there were any items to be removed for discussion from the Consent Agenda. No items were removed.

**Action:** Mr. Hackleman moved to approve the items on the Consent Agenda, and the motion was seconded by Mr. David. The motion carried with a vote of 8-0, with trustees Battey, Bowler, David, Hackleman, Hoefer, O'Malley, Raw and Tashman all in favor; none opposed.

### 2003.4.1 **Disability Retirements**:

- a) The Board found that **Joyce Reese** (1) is permanently incapacitated from the performance of her usual and customary duties as a Deputy Probation Officer III, (2) found that her disability was the result of an injury arising out of and in the course of her employment and (3) granted her application for a service-connected disability retirement.
- b) The Board found that **Michael Rihm** (1) is permanently incapacitated from the performance of his usual and customary duties as a Deputy Public Guardian

Conservator III, (2) found that his disability was not the result of an illness arising out of and in the course of his employment and (3) granted his application for a non-service-connected disability retirement.

c) The Board found that **Eric Sakuma** (1) is permanently incapacitated from the performance of his usual and customary duties as a Deputy Sheriff, (2) found that his disability was the result of an injury arising out of and in the course of his employment and (3) granted his application for a service-connected disability retirement.

### 2003.4.2 **Survivor Death Benefits:** None.

### **2003.4.3 Service Retirements:**

Name	Effective Retirement Date	Department
Carrasco, Gloria	January 4, 2020	District Attorney's Office
Collado, Dora	January 25, 2020	Human Services Agency
De La Rosa, Leila	January 11, 2020	Superior Court
Farabee, Susan	December 24, 2019	Behavioral Health & Recovery Services
Galanter, Victoria	January 6, 2020	San Mateo Medical Center
Gamba, Kathleen	February 1, 2020	Human Services Agency
Geller, Rita	January 11, 2020	Behavioral Health & Recovery Services
Higaki, Jean	January 4, 2020	Dept. of Public Work
Holechek, Timothy	February 1, 2020	Behavioral Health & Recovery Services
Joo, Grant	January 1, 2020	Agriculture Dept
Kanu, Gloria	January 4, 2020	Sheriff's Office
Klingler, Michael	January 6, 2020	Deferred from Probation Dept.
Lopez, Rita	January 18, 2020	Human Services Agency
Low, Theresa	January 16, 2020	San Mateo Medical Center
Matter, James	January 4, 2020	Behavioral Health & Recovery Services
Patten, Deborah	January 11, 2020	Human Services Agency
Ristow, Linda	January 31, 2020	San Mateo Medical Center
Romanini, Janice	January 11, 2020	Treasurer's Office
Rosales Tebo, Alba	January 25, 2020	Probation Dept.
Sheridan, Kyle	February 1, 2020	Deferred from Assessor's Office
Spears, Cheroyal	August 20, 2012	Deferred from Human Services Agency
Strachan, Lorna	February 1, 2020	Human Services Agency
Wilcox-Rittgers, Cynthia	February 1, 2020	QDRO

### 2003.4.4 **Continuances:**

Survivor's Name	Beneficiary of:
Fox, Bonnie	Fox, James
Kramer, Everett	Kramer, Mary
Shives, Sheila	Shives, John
Stoia, Anna	Stoia, Giordano
Tarver, Donald	Lyman, Louise

### 2003.4.5 **Deferred Retirements:**

The Board ratified the actions as listed below for the following members regarding deferred retirements:

Name	Retirement Plan Type
Alexander Bac, Richard	G7, Vested - Auto Defer - Code 31700
Cox, Jennifer	G4, Vested - Auto Defer - Code 31700
Gomez, Britomar	G7, Vested - Auto Defer - Code 31700
Langlois, Jennifer	P7, Vested
Lau, Kristen	G4, Vested
Madlambayan, Adrian	G7, Vested
Romero, Gloria	G7, Non-vested - Reciprocity
Simon, Karen	G4, Vested - Auto Defer - Code 31700
Tran, Kim	G7, Vested
Alexander Bac, Richard	G7, Vested - Auto Defer - Code 31700
Cox, Jennifer	G4, Vested - Auto Defer - Code 31700
Gomez, Britomar	G7, Vested - Auto Defer - Code 31700
Langlois, Jennifer	P7, Vested
Lau, Kristen	G4, Vested
Madlambayan, Adrian	G7, Vested
Romero, Gloria	G7, Non-vested - Reciprocity
Simon, Karen	G4, Vested - Auto Defer - Code 31700
Tran, Kim	G7, Vested

### 2003.4.6 Member Account Refunds:

The Board ratified the actions as listed below for the following members regarding refunds:

Name	<b>Retirement Plan Type</b>
Arbizu, Imelda (FBO: Galindo, Alberto)	G2, Vested
Costa, JoAnna	G5, Non-vested
Craig, Randolph	G7, Non-vested
Fiske, Lauren	G7, Non-vested
Green, Amber	G7, Non-vested
Pita, Sosefina	G4, Vested
Recinos Lopez, Maricriz	G7, Non-vested
Reimche, Danielle (QDRO)	G4, Non-vested
Richmond Pallaviccini, Grethel	G7, Non-vested
Wong, Margaret	G7, Non-vested

### 2003.4.7 Member Account Rollovers:

The Board ratified the actions as listed below for the following members regarding rollovers:

Name Retirement Plan Type

Bender, Alissa G7, Non-vested Le, Thao G7, Non-vested Williams, Talya G7, Non-vested

- 2003.4.8 Member Account Redeposits: None.
- 2003.4.9 **Acceptance of Trustees' Reports of Educational Activities:** The Board accepted the submitted report for educational activity attended by Ms. O'Malley.
- 2003.4.10 **Reaffirmation of Placement Agent Policy:** The Board reaffirmed SamCERA's Placement Agent Disclosure Policy.
- 2003.4.11 Ratification of Portable Electronic Device Policy: The Board ratified SamCERA's Portable Electronic Devices Policy.
- 2003.4.12 **Report on Prepayment of Employer Contributions:** The Board accepted the report on the County's prepayment of employer pension contributions for fiscal year 2020-21.
- 2003.4.13 **Report on Proxy Voting Summary for the Year Ended December 31, 2019:** The Board accepted the Proxy Voting Summary Report for the year ended December 31, 2019.
- 2003.4.14 Authorization to Take Certain Action During a Declaration of Emergency: The Board approved the "Authorization for the Chief Executive Officer to take Necessary Action in the Best Interests of the Retirement Fund During a Declaration of Emergency" resolution.
- 2003.6.1 Report on Preliminary Monthly Portfolio Performance Report for the Period Ended February 29, 2020: Mr. Coultrip reported that SamCERA's net preliminary return for February was down -3.9% bringing the preliminary trailing twelve month return ending February 2020 to 5.2% net. This item was informational and for discussion only, no action was taken.
- 2003.6.2 **Oral Report on the Status of the Portfolio:** Mr. Coultrip and Ms. Jadallah provided an oral report on the status of the portfolio and answered questions from the Board. This item was informational only, no action was taken.
- 2003.8.1 **Chief Executive Officer's Report:** Mr. Hood informed the Board that SamCERA staff are currently teleworking during the Shelter in Place Order. He expressed his gratitude for Staff's resilience in adapting to the new change in such a short amount of time. He especially thanked the IT Team for all their hard work in preparing staff for situations such as this. He informed the Board that the SACRS Spring Conference and Pension Bridge have been cancelled. (It was recently announced that Pension Bridge has been rescheduled to August 25<sup>th</sup>-26<sup>th</sup>.) With the possibility of the current Shelter in Place Order being extended, Mr. Hood informed the Board that the April Board meeting may also take place via

teleconference, however, he will update them accordingly. He also informed the Board that Milliman will be available at next month's meeting to discuss actuarial assumptions.

- 2003.8.2 **Assistant Executive Officer's Report:** Ms. Smith informed the Board that retiree checks are being issued timely with the exception of the Benefit Statements which retirees can retrieve online. She also informed the Board that Financial Knowledge Network classes have moved to an online format. Ms. Smith informed the Board that Dr. Brodkin's last day will be April 1<sup>st</sup> and that staff is in the process of obtaining a new Medical Advisor.
- 2003.8.3 **Chief Investment Officer's Report:** Mr. Coultrip reported that after consulting with the Board Chair and a member of the Investment Committee as per SamCERA's IPS, the MLP portfolio was liquidated the week of March 16th. Mr. Coultrip also reported that staff will be holding two annual manager review meetings via teleconference with real estate investors INVESCO on April 2<sup>nd</sup> and PGIM on April 16<sup>th</sup>.
- 2003.8.4 Chief Legal Counsel's Report: None.
- 2003.10 **Adjournment:** Mr. Hoefer adjourned the meeting at 9:38 a.m. in memory of the deceased members listed below.

Fujisawa, Alice	February 3, 2020	Public Health
Duignan, James	February 9, 2020	DPW
Schmidt, Carmen	February 10, 2020	Public Health
Gomez, Clarice	February 14, 2020	HOS - Materials Mgmt
Bernstein, Allen	February 17, 2020	Sheriff's Office
Finck, Peter	February 19, 2020	County Counsel
Shriberg, Gerald	February 19, 2020	Probation
Salo, Arolf	February 22, 2020	General Services
Stotereau, Thomas	February 22, 2020	General Services
Molina, Betty	February 22, 2020	Mental Health
Cabaj, Robert	February 24, 2020	Mental Health
Harris, Theodore	February 28, 2020	Assessor's
Wyman, Donald	February 29, 2020	General Services

Kurt Hoefer	
<b>Board Chair</b>	

### SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION

APRIL 6, 2020 – SPECIAL BOARD MEETING MINUTES

### 2004.1.0 Call to Order, Roll Call and Miscellaneous Business

**Call to Order:** Mr. Hoefer, Chair, called the Regular Meeting of the Board of Retirement to order at 12:02 p.m. via teleconference.

#### **Roll Call:**

Present: Sandie Arnott, Mark Battey, Al David, Paul Hackleman, Kurt Hoefer, Katherine O'Malley, Robert Raw and Eric Tashman.

Absent: Ben Bowler.

Alternates present: Susan Lee and Alma Salas.

Staff: Brenda Carlson, Michael Coultrip, Lili Dames, Scott Hood, Doris Ng, Gladys Smith and Anne

Trujillo.

Consultants and speakers: Faraz Shooshani (Verus).

- 2004.2.0 **Oral Communications from the Public:** Ms. Smith commented that there were no emails or voicemails submitted by the public regarding the Special Agenda. There was no public comment from the public via the telephone conference call in number.
- 2004.C1 Approval of Purchase of Alternative Investment (Confidential Under Gov. Code §54956.81 and §6254.26: The Board adjourned into Closed Session at 12:04 p.m. to hear Item C1.

The meeting was reconvened into Open Session at 12:25 p.m. and Ms. Carlson reported the actions taken by the Board. See Closed Session report under 3.0.

- 2004.3.0 **Report of Action Taken in Closed Session:** Ms. Carlson reported that the Board approved a motion for a commitment of \$25 million to Angelo Gordon Credit Solutions Fund Annex Dislocation Fund as part of SamCERA's opportunistic credit portfolio. The motion carried with a vote of 8-0 with trustees Arnott, Battey, David, Hackleman, Hoefer, O'Malley, Raw and Tashman all in favor; none opposed.
  - 2004.0 **Adjournment:** Mr. Hoefer adjourned the meeting at 12:26 p.m.

Kurt Hoefer	
Board Chair	

April 28, 2020 Agenda Items 4.1- 4.10

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**TO:** Board of Retirement

FROM: Elizabeth LeNguyen, Retirement Benefits Manager

**SUBJECT:** Approval of Consent Agenda Items 4.1 – 4.9

### **4.1 Disability Retirements**

a) The Board find that Imelda Barlaan (1) is permanently incapacitated from the performance of her usual and customary duties as a Charge Nurse, (2) find that her disability was not a result of an injury/illness arising out of and in the course of her employment, (3) deny her application for a service-connected disability and (4) grant her a non-service-connected disability retirement.

### 4.2 Survivor Death Benefits

a) The Board find that **Robert Cabaj**, would have been entitled to a non-service-connected disability but has died, and Bennie Ferma, the surviving spouse, has elected to receive an optional death allowance pursuant to Government Code § 31781.1.

### 4.3 Service Retirements

The Board ratifies the service retirement for the individuals listed below as follows:

Name	Effective Retirement Date	Department
Abbeduto, James	February 29, 2020	Deferred - Aging & Adult Services
Berbano, Elizabeth	March 1, 2020	San Mateo Medical Center
Chu, Hung-Ming	February 28, 2020	Behavioral Health & Recovery Services
Costa, Antonino	February 4, 2020	Sheriff's Office
Flores, Pedro	February 22, 2020	Behavioral Health & Recovery Services
Gutierrez, Grace	February 29, 2020	San Mateo Medical Center
Hori, Richard	February 22, 2020	Probation Dept.
Hurst, Roslyn	February 29, 2020	Human Services Agency
Khan, Khairul	February 29, 2020	San Mateo Medical Center
Markrow, Sherry	March 1, 2020	Library

Ozan, Julieta	February 14, 2020	Def'd - Behavioral Health & Recovery Srvs
Rude, Theresa	February 8, 2020	Deferred – Human Services Agency
Salazar, Ron	February 28, 2020	Sheriff's Office
Slusser, Lester	February 28, 2020	Sheriff's Office
Walker, Pamela	February 15, 2020	Probation Dept.
Watson, Victoria	February 8, 2020	San Mateo Medical Center
White, William	February 29, 2020	Library
Wilcox-Rittgers, Terry	February 21, 2020	Behavioral Health & Recovery Services
Wuslich, Kristina	February 27, 2020	Deferred – Parks & Recreation
Young, Robert	February 28, 2020	Deferred – Probation Dept

### 4.4 Continuances

The Board ratifies the granting of a continuance to the following individuals:

Survivor's Name	Beneficiary of:
Bernstein, Diana	Bernstein, Allen
Buddress, Patricia	Buddress, Loren
Cuadra, Vickie	Cuadra, Manuel
Duignan, Sue	Duignan, James
Koenig, Lois	Koenig, Paul

### **4.5 Deferred Retirements**

The Board ratifies the deferred retirements as listed below for the following individuals:

Name	Retirement Plan Type
Arteaga, Manuel	G4, Vested - Auto Defer - Code 31700
Belous, Sheila	G4, Vested
Cai, Selina	G7, Vested
Cisco, Kristine	G7, Non-vested - Reciprocity
Cota, Mara	G5, Vested - Auto Defer - Code 31700
Derespini, Ronald	S4, Vested
Gongon, Arlen	G4, Vested
Hernandez, Marta	G5, Vested - Reciprocity
Jewett, Rebecca	G5, Vested - Reciprocity

Perez, Ashley	G7, Vested - Auto Defer - Code 31700
Robinson, Sharma	G4, Vested - Reciprocity
Porter, Karl	G2, Vested - Auto Defer - Code 31700
Sharma, Jasneet	G7, Vested - Reciprocity
Susantin, Danny	G7, Non-vested - Reciprocity
Trajano, Jeannette	G2, Vested - Auto Defer - Code 31700
Weaver, Jeff	G7, Vested - Reciprocity

### **4.6 Member Account Refunds**

The Board ratifies the refunds as listed below for the following individuals:

Name	Retirement Plan Type
Davis, Cynthia	G7, Non-vested
Delgado, Annmarie	G7, Non-vested
Lewis, Vernon	G4, Vested
Masuoka, Nicole	G7, Non-vested
Moran, Alexis	G7, Non-vested
Almendrala, Richie	G7, Vested
Espinoza, Juan	S7, Non-vested
Gulde, Sairo Mel	G7, Non-vested
Roberts, Fran	G4, Non-vested
Tan, Bernard	G7, Non-vested

### **4.7 Member Account Rollovers**

The Board ratifies the rollovers as listed below for the following individuals:

Name	Retirement Plan Type
Almendrala, Richie	G7, Vested
Meehan, Patrick	G7, Non-vested
Zhu, Allison	G7, Non-vested

### **4.8 Member Account Redeposits**

None.

### 4.9 Acceptance of Trustees' Reports of Educational Activities through Outside Provider

See attached report.

### **4.10 Correction of Monthly Benefit Payment**

The Board ratifies the correction in underpaid benefits for the following individuals:

Name	Retirement Plan Type
Lindecker, Joan	G1
O'Meara, Christine	G1
Robinson, Audrey	P2
Vega, Aurora	G1

April 28, 2020 Agenda Item 4.9

**TO:** Board of Retirement

FROM: Anne Trujillo, Retirement Executive Secretary

**SUBJECT:** Trustee's Reports of Educational Activities

### Recommendation

Accept the following reports from Board of Retirement trustees who have recently attended educational events.

### Background

SamCERA's Education Policy Section 1D states "Prior to the next regularly scheduled meeting of the Board following the Board member's participation in an educational activity, the Board member shall submit for inclusion on the Consent Agenda, a summary written report on the content of educational activities. The report shall substantially reflect the information contained in the attached sample report."

### Discussion

SamCERA Trustees attended the following educational events, and their reports are attached:

CALAPRS General Assembly - Rancho Mirage, CA Susan Lee

### **Attachment**

Trustee's Education Proof of Participation Certificates and Summary

### SamCERA Board of Retirement Trustee Education Proof of Participation Certificate and Summary



Trustee Name Susan Lee		Date(s) of Event 3/7/20-3/10/20	
Education Event Name General Assembly		•	
Event Provider CALAPRS			
Type of Participation: Attended Event ⊠ Listened to Audio/Watched Video □		s you participated in: <u>12</u> s if the provider issues an education different hours.)	
This event satisfies the following requirer Government Code section 31522.8:	ments of the Board of Re	tirement's Education Policy and	
Topic: (Check all that apply)  ☐ Fiduciary responsibilities ☐ Ethics ☐ Benefits administration ☐ Actuarial matters ☐ Pension funding ☐ Pension fund investments and investre program management  Summary Report  What concepts or information did you lead thick, Post-PEPRA, US China relations, Economics  Ethics, Post-PEPRA, US China relations, Economics  The properties of the propert of the properties of the	□ New boar □ Other: ment arn about?	ngs Ind governance d member orientation	
Would you recommend this event to other			
⊠ Yes □ No	□ Maybe		
You may provide additional comments to	SamCERA's CEO.		
By signing below, I certify that I participat claim the indicated amount of education		ribed above and am entitled to	
Trustee Signature (print this form and signature) Susan Lee	gn)	Date 3/24/2020	

**NOTE:** Please return this completed form to SamCERA's Executive Secretary prior to the mailing of the Board packet, so it can be included in that month's Consent Agenda.

April 28, 2020 Agenda Item 4.11

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**TO:** Board of Retirement

FROM: Gladys Smith, Assistant Executive Officer

**SUBJECT:** Approval to Renew Fiduciary Liability Insurance Policy

### Recommendation

Authorize the County's Risk Manager to renew fiduciary liability insurance coverage with RLI Insurance Services through May 27, 2021.

### **Background**

The Government Code requires SamCERA to defend trustees and staff against claims and litigation which arise from the performance of their duties. Because the assets of the retirement fund would be used to provide such defense, since 1998, the Board has purchased fiduciary liability insurance to help protect the assets of the fund from the expenses and any awards resulting from such litigation.

### Discussion

Currently, the Board has a fiduciary policy with RLI Insurance Services for \$10 million in coverage, a deductible of \$100,000, and an annual premium of \$62,650. Staff worked with the County Risk Manager and James and Gable Insurance Brokers, Inc. to obtain a continuation of this coverage for \$72,500. The 15% increase is due to the increase in assets, participants, funding status and market conditions, which was based on the June 30, 2019 valuation.

For the 18 covered fiduciaries (Board and certain staff), SamCERA will once again be able to pay for a Waiver of Nonrecourse endorsement. The cost is \$450 and will be divided equally by the 18 covered fiduciaries. By law, this cannot be paid by the fund and must be paid personally by each fiduciary. For convenience, SamCERA collects the money from each fiduciary and remits payment to the insurance broker.

April 28, 2020 Agenda Item 4.12

**TO:** Board of Retirement

FROM: Scott Hood, Chief Executive Officer

**SUBJECT:** Amendment to the Agreement with Vitech Systems Group, Inc.

### Recommendation

Approve a resolution authorizing the Chief Executive Officer to execute a Tenth Amendment to the agreement with Vitech Systems Group, Inc. ("Vitech") up to \$12,500,000 for all services through December 31, 2022.

### **Background**

On May 1, 2014, SamCERA entered an agreement with Vitech for the new Pension Administration Software System ("PASS") system. The agreement provides for the hosting, and all post implementation support maintenance of the system, including third party software and hardware through 2021. The agreement is currently capped at \$12,000,000.

### Discussion

The post implementation services provided by Vitech are invoiced at an hourly time and materials rate. Under the agreement, SamCERA receives 750 service hours a year at a flat annual rate of \$126,000. For projects over the 750 hour limit, an hourly rate of \$210 an hour (plus an annual COLA) is charged. In April of 2018, the Board approved the purchase of 2,500 hours prepaid at a rate of \$193 an hour to be used by 2020. We anticipate that these hours will be used up by this May, and after that, any hours used will be billed at the regular rate. To address this, staff has negotiated a second purchase of prepaid hours at a rate of \$185 an hour to be used through December 31, 2022.

The proposed resolution authorizes the Chief Executive Officer to sign an amendment to purchase 2,500 hours at a cost of \$462,500, extend the term by one year to December 31, 2022, and increase the not-to-exceed amount by \$500,000 to cover the cost of the hours. The increase in the agreement amount is covered by expenses already included in the Board approved Fiscal Year 2019-20 budget.

#### **Attachment**

Resolution Authorizing the Chief Executive Officer to Execute a Tenth Amendment to Agreement with Vitech Systems Group, Inc.

### RESOLUTION 2020-\_\_

### RESOLUTION AUTHORIZING THE CHIEF EXECUTIVE OFFICER TO EXECUTE TENTH AMENDMENT TO AGREEMENT WITH VITECH SYSTEMS GROUP, INC.

- **WHEREAS,** SamCERA, in accordance with California Government Code Section 31588.2, is authorized to expend funds on the administration of the pension system in order to provide timely and accurate benefits to its members; and
- WHEREAS, on January 28, 2014, this Board authorized the Chief Executive Officer to execute an agreement with Vitech Systems Group, Inc. for the provision of the PASS hardware, software, and implementation and support services; and
- WHEREAS, this agreement has been amended nine times during the design, build, implementation and maintenance of the PASS system; and
- WHEREAS, this Board has determined that it is in the best interests of SamCERA to further amend the Agreement to reflect the additional costs to prepay for Change Order hours at a discounted rate and extend the term of the Agreement to December 31, 2022; therefore be it
- **RESOLVED,** the Chief Executive Officer is authorized to execute an amendment to the agreement with Vitech Systems Group, Inc. at an amount not to exceed \$12,500,000 for all services through December 31, 2022. Be it further
- **RESOLVED,** that the Chief Executive Officer is hereby authorized and directed to execute subsequent amendments and minor modifications as the Chief Executive Officer deems necessary.

\* \* \* \* \*

Regularly passed and adopted, by the San Mateo County Employees' R	Retirement
Association, Board of Retirement, on April 28, 2020.	
Ayes, Trustees:	

Noes, Trustees:	
Absent, Trustees:	
Abstain, Trustees:	
Board Secretary, SamCERA	

April 28, 2020 Agenda Item 4.13

**TO:** Board of Retirement

FROM: Gladys Smith, Assistant Executive Officer heady

**SUBJECT:** Amending Resolutions Defining Compensation Earnable and Pensionable Compensation

### Recommendation

Approve amendments to (1) the two Resolutions defining Compensation Earnable, pursuant to Government Code §31461 for members who are not subject to Government Code §7522.34 and (2) the two Resolutions defining Pensionable Compensation for members who are subject to Government Code §7522.34 to:

(a) Include as pensionable earning the following codes:

### **Automated Timekeeping System (ATKS)**

(ATKS) Code	Earning Description
635	Emergency Sick Leave
636	Emergency FMLA Paid
641	Essential Worker COVD19 Leav

### WorkDay (Tracking purposes only no service credit hours attributable)

WD Code	Earning Description
035B	Sick Leave Supplemental Pay
041B	Vacation Supplemental Pay
048B	Accumulated Holiday Supplemental Pay
052B	Comp Time Supplemental Pay
1TW	Regular Hours Teleworked
052B	Comp Time Supplemental Pay

### (b) Include as non-pensionable the following codes:

ATKS Code	Earning Description
637	Emergency FMLA Unpaid
640	Terminal EW COVID19 Leave
642	Essential Worker Onsite

### WorkDay (Tracking purposes only no service credit hours attributable)

637M	Emergency FMLA Unpaid Memo Note
640M	Essential Worker Onsite Memo Note

### **Background**

Depending upon a member's date of hire and other factors, a member is either subject to Government Code §31461 in the County Employees Retirement Law ("CERL") or §7522.34 of the Public Employees' Pension Reform Act (PEPRA). Under CERL, Compensation Earnable is used: (1) to calculate final compensation in order to determine a member's pension benefit and (2) to calculate the ongoing contributions to be paid by the member and the employer. For the PEPRA members, "Pensionable Compensation" is used for the same purposes. The Board determines which elements of compensation are to be included in pensionable earnings.

#### Discussion

The recently enacted Families First Coronavirus Response Act (FFCRA) requires SamCERA's employers to provide their employees with paid sick leave and expanded Family and Medical Leave (FMLA) for specified reasons related to the COVID-19 virus. Under the FFCRA, if an employee is unable to come to work or to telework, the employee is entitled to take covered leave related to COVID-19, if the employee is:

- Subject to a Federal, State, or local quarantine or isolation order related to COVID-19.
- Advised by a health care provider to self-quarantine related to COVID-19.
- Experiencing COVID-19 symptoms and is seeking a medical diagnosis.
- Caring for an individual subject to an order described above or self-quarantine.
- Care for their child due to school or child care closures.

There are different pay code identifications to be used in the automated timekeeping system (ATKS) and in the Payroll/Personnel/Benefits system (Workday) to administer the FFCRA, which will be in effect from April 1, 2020 through December 31, 2020.

Sections 31461 and 7522.34 provide that: "Compensation Earnable" and "Pensionable Compensation" are to include the "normal rate of pay" and, due to the FFCRA, the above pay code items listed in the recommendation as "pensionable" are includable. The proposed resolutions reflecting these changes would be effective as of April 1, 2020. There are separate resolutions for the members of the San Mateo County Mosquito and Vector Control District (SMCM&VCD).

Staff will address any specific questions that the Board may have. The attached resolutions each rescind the current resolutions to add the new earnings codes.

### **Attachments**

Resolution Defining Compensation Earnable pursuant to Government Code §31461
Resolution Defining Compensation Earnable pursuant to Government Code §31461 (SMCM&VCD)
Resolution Defining Pensionable Compensation pursuant to Government Code §7522.34
Resolution Defining Pensionable Compensation pursuant to Government Code §7522.34 (SMCM&VCD)

## SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION RESOLUTION 2020-\_\_

## RESOLUTION DEFINING COMPENSATION EARNABLE PURSUANT TO GOVERNMENT CODE §31461 FOR MEMBERS WHO ARE NOT SUBJECT TO GOVERNMENT CODE §7522.34.

- WHEREAS, for those current members who became active members prior to January 1, 2013, and those members who became active members on or after January 1, 2013, but who are not subject to Government Code §7522.34 of the California Public Employees' Pension Reform Act, the determination of compensation earnable for remuneration earned by those members is governed by Government Code §31461; and
- WHEREAS, Government Code §31461 provides that compensation earnable by a member means the average compensation as determined by the Board, for the period under consideration upon the basis of the average number of days ordinarily worked by persons in the same grade or class of positions during the period, and at the same rate of pay; and
- **WHEREAS**, Government Code §31461 provides that this Board determine which items of remuneration earned by members shall constitute "Compensation Earnable"; and
- **WHEREAS**, the Board has reviewed the current pay items and has determined which of those items are to be included in "Compensation Earnable" and which items are not to be included; and
- WHEREAS, it is necessary for this Board from time to time to amend its determinations of compensation earnable due to changes in the compensation schedules of SamCERA employers or changes in the law and the County of San Mateo just notified this Board that when it upgraded its payroll system to Workday, some of the pay codes designations were changed; Therefore, be it
- **RESOLVED**, that Resolution number 2019-12 is rescinded, and pursuant to Government Code §31461 as interpreted by the courts, the Board hereby makes the following determinations to be effective April 1, 2020, as to what is included in "Compensation Earnable" and items of remuneration that are not included:

### 1. Compensation earnable shall include:

Pay Code	Description
001	Regular hours worked
001-G	Regular hours worked (grace paid)
001-M	Regular hours worked (mandatory meeting)
001-T	Regular hours worked (training)
001-TW	Regular hours worked (telecom)
006	Sheriff's 84/12 Plan
00680	84/12 Plan (Sheriff)
010	Release time with pay
011	Night shift differential-com dispatch
013	Night shift differential

Pay Code	Description
014	Special night shift differential
015	Special duty hours
016	Inspection/Testing/Repair with a Certification
019	Charge nurse shift differential
020	Split shift
021-L1	Bilingual pay
021-L2	Bilingual pay
022	Staffing differential
023	Weekend pay
027	On-call hours
033	Bomb squad (flight/observer/pilot)
035	Sick leave with pay
035B	Sick Leave Supplemental Pay
036	Sick leave with pay (work-related injury)
041	Vacation hours with pay
041-A	X-Vacation hours with pay
041B	Vacation Supplemental pay
041H	Vacation hours with pay on holiday
043	Holiday hours regular pay
043CNA	Holiday premium for PT CNA
044	Holiday worked at 1.5
045	Holiday hours worked at straight time
045-P	Holiday hours worked at straight time
045O	Holiday hours worked at straight time-overflow
048	Accumulated holiday hours taken
048-A	X-Accumulated holiday hours taken
048B	Accumulated Holiday Supplemental pay
048H	Holiday hours taken on holiday
052	Comp time hours used
052-A	X-Comp/Admin Leave Hours Used
052B	Comp Time Supplemental pay
052H	Comp time hours used on holiday
054	Administrative leave
055	Jury duty with pay
056	Military-leave with pay
057	Education leave with pay
058	Other leave with pay
059	Disability leave with pay
064	Management overtime used
080	Uniform/tool allowance
080A	Uniform/tool allowance annual
081	Transportation allowance

Pay Code	Description
087	Bi-weekly special pay
088	Miscellaneous special pay
090	Voluntary time off used
093	Furlough w/o pay used with payment of contributions
1TW	Regular hours teleworked
102	Annual in-service management administrative leave cash-outs
104	LTC shift differential
104B	LTC shift differential adjustment
110	Compulsory time off
112	Bereavement leave
127	On-call days/hours – Post 2012
131	Winter Recess HRs Regular Pay
133	Accum Winter Recess Hrs Taken
313	LC4850 night shift differential
315	LC4850 special duty
359	LC4850 disability with pay
502	Admin leave cash out w/1-time deferred comp
557	Educational ly with pay
635	Emergency Sick Leave
636	Emergency FMLA Paid
641	Essential Worker COVD19 Leave
827	Special on call
306	LC4850WC 84/12 plan shf
30680	LC4850WC 84/12 plan shf

- 2. Compensation Earnable, at a minimum, shall <u>not</u> include, in any case, the following pay items.
  - A. The following pay codes are <u>not</u> included:

Pay Code	Description
007	EH. relief nurse shift differential
009	E.H. relief nurse shift differential
025	Call back pay
025-P	Call back pay (premium)
025S	Call back pay SART nurses
025-S	Call back pay SART nurses
026	Part-time double shift differential
028	On call EH. relief nurse
029	Part-time double shift differential
037	Layoff sick leave
040	Terminal vacation
046	Holiday hours accrued
046CNA	Holiday premium hours accrued for PT CNA
046-P	Holiday hours accumulated at straight time

Pay Code	Description	
047	Holiday hours accrued at 1.5	
049	Terminal holiday pay	
050	Terminal compensatory pay	
051	Comp Time Earned at 1.5	
051-P	Premium portion for call back	
053	Comp time earned at straight time	
060	Absent without leave	
061	Leave without pay	
061-A	X-Leave without pay	
062	Disability leave without pay	
063	Terminal MOT Pay	
065	Overtime training hours	
066	Overtime at time and one-half	
069	Overtime special duty desk officer	
069-P	Overtime special duty desk officer	
070	Overtime special duty	
073	Overtime special duty night shift	
075	Overtime night shift premium hours	
076	Rest period differential	
079	Overtime special shift differential	
083	Worker's compensation payment	
084	Employee incentives	
085	Disability payment	
086	Taxable benefits-DP	
089	Relocation Allowance	
091	Terminal VTO pay	
096	County Deferred Comp Contribution	
097	Miscellaneous terminal pay	
101	LTD payments	
103	FMLA earnings	
105	Miscellaneous subsidies	
106	FSLA adjustments	
106 80	FSLA adjustment for 84/12	
106 980-P1	FSLA adjustment 9/80 period 1	
106 980-P2	FSLA adjustment 9/80 period 2	
107	Overtime at straight time	
108	Comp hours earned at straight time (OT)	
111	Terminal compulsory time off	
125	Call back pay st.	
132	Winter Recess Hours Accrued	
134	Terminal Winter Recess Pay	
203	Wellness Dividend	

Pay Code	Description
225	Call back pay flat rate
383	LC4850 worker's compensation payment
637	Emergency FMLA Unpaid
637M	Emergency FMLA Unpaid Memo Note
640	Terminal EW COVID19 Leave
642	Essential Worker Onsite
642M	Essential Worker Onsite Memo Note
803	SART nurses meeting/service-flat rate
804	SART nurses training and education-flat rate
P25	Call in phone

- B. Payments associated with the provision of insurance benefits, or other third-party payments such as professional membership dues that are not received in cash by a member.
- C. Payments by a SamCERA employer of member-required contributions to the retirement system under Government Code sections 31581.1, 31630, 31639.85 or under a memorandum of understanding (MOU) between members (or their representatives) and the SamCERA employer.
- 3. Pursuant to Government Code §31461(b) compensation earnable, shall not include in any case the following:
  - A. Any compensation determined by the Board to have been paid to enhance a member's retirement benefit under that system. That compensation may include:
    - (1) Compensation that had previously been provided in kind to the member by the employer or paid directly by the employer to a third party other than the retirement system for the benefit of the member, and which was converted to and received by the member in the form of a cash payment in the final average salary period.
    - (2) Any one-time or ad hoc payment made to a member, but not to all similarly situated members in the member's grade or class.
    - (3) Any payment that is made solely due to the termination of the member's employment, but is received by the member while employed, except those payments that do not exceed what is earned and payable in each 12-month period during the final average salary period regardless of when reported or paid.
  - B. Payments for unused vacation, annual leave, personal leave, sick leave, or compensatory time off, however denominated, whether paid in a lump sum or otherwise, in an amount that exceeds that which may be earned and payable in each 12-month period during the final average salary period, regardless of when reported or paid.
  - C. Payments for additional services rendered outside of normal working hours, whether paid in a lump sum or otherwise.

- D. Payments made at the termination of employment, except those payments that do not exceed what is earned and payable in each 12-month period during the final average salary period, regardless of when reported or paid.
- 4. Pursuant to Government Code §31641(c), the terms listed above in paragraph 3 are intended to be consistent with and not in conflict with the holdings in *Salus v. San Diego County Employees Retirement Association* (2004) 117 Cal.App.4th 734 and *In re Retirement Cases* (2003)110 Cal.App.4th 426.

**BE IT FURTHER RESOLVED,** that the above listed determinations by the Board of what is included or not included in compensation earnable, shall be in effect until such time as action taken by the Board or action by the Legislature or the Courts as a matter of law requires a different determination.

\* \* \* \* \*

Regularly passed and adopted, by the San Mateo County Employees' Retirement Association, Board of Retirement, on April 28, 2020.

Ayes, Trustees:	
Noes, Trustees:	
Absent, Trustees:	
Abstain, Trustees:	
Robert Raw, Board Secretary SamCERA	

#### SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION

### RESOLUTION 2020-\_\_

# RESOLUTION DEFINING COMPENSATION EARNABLE PURSUANT TO GOVERNMENT CODE §31461 FOR SAN MATEO COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT MEMBERS WHO ARE NOT SUBJECT TO GOVERNMENT CODE §7522.34.

- WHEREAS, for those current San Mateo County Mosquito and Vector Control District ("District") members who became active members prior to January 1, 2013, and those members who became active members on or after January 1, 2013, but who are not subject to Government Code §7522.34 of the California Public Employees' Pension Reform Act, the determination of compensation earnable for remuneration earned by those members is governed by Government Code §31461; and
- WHEREAS, Government Code §31461 provides that compensation earnable by a member means the average compensation as determined by the Board, for the period under consideration upon the basis of the average number of days ordinarily worked by persons in the same grade or class of positions during the period, and at the same rate of pay; and
- WHEREAS, Government Code §31461 provides that this Board determine which items of remuneration earned by District members shall constitute "Compensation Earnable," and
- WHEREAS, the Board has reviewed the current pay items and has determined which of those items are to be included in "Compensation Earnable" and which items are not to be included; and
- **WHEREAS**, it is necessary for this Board from time to time to amend its determinations of compensation earnable due to changes in the compensation schedules of SamCERA employers or changes in the law; therefore, be it
- **RESOLVED** that effective April 28, 2020, resolution number 12-13-13 is rescinded, and pursuant to Government Code §31461 as interpreted by the courts, the Board hereby makes the following determinations to be effective April 1, 2020, for District members as to what is included in "compensation earnable" and items of remuneration that are not included:
- 1. Compensation Earnable shall include:

Regular hours worked	
Sick leave with pay	
Vacation with pay	
Personal leave with pay	
Comp time hours used as straight time	

Emergency FMLA Paid	
Emergency Sick Leave	

- 2. Compensation earnable, at a minimum, shall <u>not</u> include, in any case, the following pay items.
  - A. The following pay items are not included:

Overtime paid		
Accrued comp earned at time and one-half (OT)		
Leave without pay		
Accrued sick time paid out upon termination		
Accrued vacation time paid out upon termination		
Accrued comp time paid out upon termination		
Emergency FMLA Unpaid		

- B. Payments associated with the provision of insurance benefits, or other third party payments such as professional membership dues, that are not received in cash by a member.
- C. Payments by a SamCERA employer of member-required contributions to the retirement system under Government Code sections 31581.1, 31630, 31639.85 or under a memorandum of understanding (MOU) between members (or their representatives) and the SamCERA employer.
- 3. Pursuant to Government Code §31461(b) compensation earnable, shall not include in any case the following:
  - A. Any compensation determined by the Board to have been paid to enhance a member's retirement benefit under that system. That compensation may include:
    - (1) Compensation that had previously been provided in kind to the member by the employer or paid directly by the employer to a third party other than the retirement system for the benefit of the member, and which was converted to and received by the member in the form of a cash payment in the final average salary period.
    - (2) Any one-time or ad hoc payment made to a member, but not to all similarly situated members in the member's grade or class.
    - (3) Any payment that is made solely due to the termination of the member's employment, but is received by the member while employed, except those payments that do not exceed what is earned and payable in each 12-month period during the final average salary period regardless of when reported or paid.
  - B. Payments for unused vacation, annual leave, personal leave, sick leave, or compensatory time off, however denominated, whether paid in a lump sum or otherwise, in an amount that exceeds that which may be earned and payable in each 12-month period during the final average salary period, regardless of when reported or paid.

- C. Payments for additional services rendered outside of normal working hours, whether paid in a lump sum or otherwise.
- D. Payments made at the termination of employment, except those payments that do not exceed what is earned and payable in each 12-month period during the final average salary period, regardless of when reported or paid.
- 4. Pursuant to Government Code §31641(c), the determinations listed above are intended to be consistent with and not in conflict with the holdings in *Salus v. San Diego County Employees Retirement Association* (2004) 117 Cal.App.4th 734 and *In re Retirement Cases* (2003)110 Cal.App.4th 426.

**FURTHER RESOLVED** that the above listed determinations by the Board of what is included or not included in compensation earnable, shall be in effect until such time as action taken by the Board or action by the Legislature or the Courts as a matter of law requires a different determination.

\* \* \* \* \*

Regularly passed and adopted, by the San Mateo County Employees' Retirement Association, Board of Retirement, on April 28, 2020.

Ayes, Trustees:		
Noes, Trustees:		
Absent, Trustees:		
Abstain, Trustees:		
 Robert Raw, Board Secretary SamCERA		

### SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION

### **RESOLUTION 2020-**

## RESOLUTION DEFINING PENSIONABLE COMPENSATION PURSUANT TO GOVERNMENT CODE §7522.34 FOR MEMBERS WHO ARE NOT SUBJECT TO GOVERNMENT CODE §31461

- WHEREAS, for those members who became active members on or after January 1, 2013, and who are subject to the California Public Employees' Pension Reform Act contained in Government Code §7522 et seq., the determination of their pensionable compensation is governed by Government Code §7522.34; and
- WHEREAS, the pensionable compensation for those employee members who are subject to Government Code §7522.34 shall be the normal monthly rate of pay or base pay of the member paid in cash to similarly situated members of the same group or class of employment for services rendered on a full-time basis during normal working hours, pursuant to publicly available pay schedules; and
- **WHEREAS**, the Board has reviewed the current pay items and has determined which of those items are to be included in "Pensionable Compensation" and which items are not to be included; and
- WHEREAS, it will be necessary for this Board, from time to time, to amend its determinations of pensionable compensation due to changes made by SamCERA employers in their compensation schedules as well as changes in the law; Therefore, be it;
- **RESOLVED**, Resolution number 2019-13 is rescinded, and pursuant to Government Code §7522.34 as interpreted by the courts, the Board hereby makes the following determinations to be effective April 1, 2020, as to what is included in "Pensionable Compensation" and items of remuneration that are not included:
- 1. Pensionable compensation shall include:

Pay Code	Description
001	Regular hours worked
001-G	Regular hours worked (grace paid)
001-M	Regular hours work (mandatory meeting)
001-T	Regular hours worked (training)
001-TW	Regular hours worked (telecom)
006	Sheriff's 84/12 Plan
00680	84/12 Plan (Sheriff)
010	Release time with pay
011	Night shift differential-com dispatch
013	Night shift differential
014	Special night shift differential
015	Special duty hours
016	Inspection/Testing/Repair with a Certification

Pay Code	Description			
019	Charge nurse shift differential			
020	Split shift			
021-L1	Bilingual pay			
021-L2	Bilingual pay			
022	Staffing differential			
023	Weekend pay			
033	Bomb squad (flight/observer/pilot)			
035	Sick leave with pay			
035B	Sick Leave Supplemental Pay			
036	Sick leave with pay (work-related injury)			
041	Vacation hours with pay			
041-A	X-Vacation hours with pay			
041B	Vacation Supplemental pay			
041H	Vacation hours with pay on holiday			
043	Holiday hours regular pay			
043CNA	Holiday premium for PT CNA			
044	Holiday worked at 1.5			
045	Holiday hours worked at straight time			
045-P	Holiday hours worked at straight time			
048	Accumulated holiday hours taken			
048-A	X-Accumulated holiday hours taken			
048B	Accumulated Holiday Supplemental pay			
048H	Holiday hours taken on holiday			
052	Comp time hours used			
052-A	X-Comp/Admin leave hours used			
052B	Comp Time Supplemental pay			
052H	Comp time hours used on holiday			
054	Administrative leave			
055	Jury duty with pay			
056	Military leave with pay			
057	Educational leave with pay			
058	Other leave with pay			
059	Disability leave with pay			
064	Management overtime used			
087	Bi-weekly special pay			
090	Voluntary time off used			
093	Furlough w/o pay used with payment of contributions			
1TW	Regular Hours Teleworked			
104	LTC shift differential			
104B	LTC shift differential adjustment			
110	Compulsory time off			
112	Bereavement leave			
131	Winter Recess HRs Regular Pay			

Pay Code	Description	
133	Accum Winter Recess Hrs Taken	
313	LC4850 night shift differential	
315	LC4850 special duty	
359	LC4850 disability with pay	
557	Educational lv with pay	
635	Emergency Sick Leave	
636	Emergency FMLA Paid	
641	Essential Worker COVD19 Leave	
30680	LC4850WC 84/12 plan shf	

Pensionable compensation, at a minimum, shall <u>not</u> include, in any case, the following payitems.
 A The following pay codes are <u>not</u> included:

Pay Code	Description	
007	E.H. relief nurse shift differential	
009	E.H. relief nurse shift differential	
025	Call back pay	
025-P	Call back pay (premium)	
025S	Call back pay SART nurses	
025-S	Call back pay SART nurses	
026	Part-time double shift differential	
027	On-call hours	
028	On call E.H. relief nurse	
029	Part-time double shift differential	
037	Layoff sick leave	
040	Terminal vacation	
0450	Holiday hours worked at straight time-overflow	
046	Holiday hours accrued	
046CNA	Holiday premium hours accrued for PT CNA	
046-P	Holiday hours accumulated at straight time	
047	Holiday hours accrued at 1.5	
049	Terminal holiday pay	
050	Terminal compensatory pay	
051	Comp Time Earned at 1.5	
051-P	Premium portion for call back	
053	Comp time earned at straight time	
060	Absent without leave	
061	Leave without pay	
061-A	X-Leave without pay	
062	Disability leave without pay	
063	Terminal MOT Pay	
065	Overtime training hours	
066	Overtime at time and one-half	
069	Overtime special duty desk officer	
069-P	Overtime for mandatory meeting	

Pay Code	Description		
070	Overtime special duty		
073	Overtime special duty Overtime special duty night shift		
075	Overtime special daty hight shift Overtime night shift premium hours		
076	Rest period differential		
079	-		
080	Overtime special shift differential Uniform/tool allowance		
080A	Uniform/tool allowance annual		
081	Transportation allowance		
083	·		
	Worker's compensation payment		
084	Employee incentives		
085	Disability payment		
086	Taxable benefits-DP		
088	Miscellaneous special pay		
089	Relocation Allowance		
091	Terminal VTO pay		
096	County Deferred Comp Contribution		
097	Miscellaneous terminal pay		
101	LTD payments		
102	Annual in-service mgmt administrative leave cash-outs		
103	FMLA earnings		
105	Miscellaneous subsidies		
106	FSLA adjustments		
106 80	FSLA adjustment for 84/12		
106 980-P1	FSLA adjustment 9/80 period 1		
106 980-P2	FSLA adjustment 9/80 period 2		
107	Overtime at straight time		
108	Comp hours earned at straight time (OT)		
111	Terminal compulsory time off		
125	Call back pay st.		
127	On-call days/hours – Post 2012		
132	Winter Recess Hours Accrued		
134	Terminal Winter Recess Pay		
203	Wellness Dividend		
225	Call back pay flat rate		
383	LC4850 worker's compensation payment		
502	Admin leave cash out w/1-time deferred comp		
637	Emergency FMLA Unpaid		
637M	Emergency FMLA Unpaid Memo Note		
640	Terminal EW COVID19 Leave		
642	Essential Worker Onsite		
642M	Essential Worker Onsite Memo Note		
803	SART nurses meeting/service flat rate		
804	SART nurses training and education flat rate		
827	Special on call		
P25	Call in phone		
I FZJ			

- B. Pursuant to Government Code §7522.34, pensionable compensation does not include the following:
  - 1) Any compensation determined by the Board to have been paid to increase a member's retirement benefit.
  - 2) Compensation that had previously been provided in kind to the member by the employer or paid directly by the employer to a third party other than the retirement system for the benefit of the member and which was converted to and received by the member in the form of a cash payment. Any one-time or ad hoc payments made to a member.
  - 3) Severance or any other payment that is granted or awarded to a member in connection with or in anticipation of a separation from employment but is received by the member while employed.
  - 4) Payments for unused vacation, annual leave, personal leave, sick leave, or compensatory time off, however denominated, whether paid in a lump sum or otherwise, regardless of when reported or paid.
  - 5) Payments for additional services rendered outside of normal working hours, whether paid in a lump sum or otherwise.
  - 6) Any employer-provided allowance, reimbursement, or payment, including, but not limited to, one made for housing, vehicle, or uniforms.
  - 7) Compensation for overtime work, other than as defined in Section 207(k) of Title 29 of the United States Code.
  - 8) Employer contributions to deferred compensation or defined contribution plans.
  - 9) Any bonus paid in addition to the compensation described in subdivision (a) of Government Code §7522.34.
  - 10) Any other form of compensation the Board determines is inconsistent with the requirements of subdivision §7522.34 (a).
  - 11) Any other form of compensation that this Board determines should not be pensionable compensation.
- 3. Pursuant to Government Code §7522.10, whenever pensionable compensation, as defined in §7522.34, is used in the calculation of a benefit, the pensionable compensation shall be subject to the monetary limitations set forth in subdivision §7522.10.

**BE IT FURTHER RESOLVED**, that the above listed determinations by the Board of what is included or not included in pensionable compensation, shall be in effect until such time as this Board, the Legislature, or the Courts take action that as a matter of law requires a different determination.

\* \* \* \* \*

Retirement, on April 28, 2020.	, , ,	
Ayes, Trustees:		
Noes, Trustees:		
Absent, Trustees:		
Abstain, Trustees:		
Robert Raw, Board Secretary		
SamCERA		

Regularly passed and adopted, by the San Mateo County Employees' Retirement Association, Board of

#### SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION

### RESOLUTION 2020-\_\_

# RESOLUTION DEFINING PENSIONABLE COMPENSATION PURSUANT TO GOVERNMENT CODE §7522.34 FOR SAN MATEO COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT MEMBERS WHO ARE NOT SUBJECT TO GOVERNMENT CODE §31461

- WHEREAS, for those San Mateo County Mosquito and Vector Control District ("District") members who became active members on or after January 1, 2013, and who are subject to the California Public Employees' Pension Reform Act contained in Government Code §7522 et seq., the determination of their pensionable compensation is governed by Government Code §7522.34; and
- WHEREAS, the pensionable compensation for those District members who are subject to Government Code §7522.34 shall be the normal monthly rate of pay or base pay of the member paid in cash to similarly situated members of the same group or class of employment for services rendered on a full-time basis during normal working hours, pursuant to publicly available pay schedules; and
- WHEREAS, the Board has reviewed the current pay items and has determined which of those items are to be included in "Pensionable Compensation" and which items are not to be included; and
- **WHEREAS**, it will be necessary for this Board, from time to time, to amend its determinations of pensionable compensation due to changes made by SamCERA employers in their compensation schedules as well as changes in the law; therefore, be it
- **RESOLVED**, that effective April 28, 2020, resolution number 12-13-12 is rescinded, and pursuant to Government Code §7522.34 as interpreted by the courts, the Board hereby makes the following determinations to be effective April 1, 2020, for District members as to what is included in "Pensionable Compensation" and items of remuneration that are not included:
- 1. Pensionable compensation shall include:

Regular hours worked	
Sick leave with pay	
Vacation with pay	
Personal leave with pay	
Comp time hours used as straight time	
Emergency FMLA Paid	
Emergency Sick Leave	

- 2. Pensionable compensation, at a minimum, shall not include, in any case, the following pay items.
  - A. The following pay codes are not included:

Overtime paid	
Accrued comp earned at time and one-half (OT)	
Leave without pay	
Accrued sick time paid out upon termination	
Accrued vacation time paid out upon termination	
Accrued comp time paid out upon termination	
Emergency FMLA Unpaid	

- B. Pursuant to Government Code §7522.34, pensionable compensation does not include the following:
  - 1. Any compensation determined by the Board to have been paid to increase a member's retirement benefit.
  - 2. Compensation that had previously been provided in kind to the member by the employer or paid directly by the employer to a third party other than the retirement system for the benefit of the member and which was converted to and received by the member in the form of a cash payment.
  - 3. Any one-time or ad hoc payments made to a member.
  - 4. Severance or any other payment that is granted or awarded to a member in connection with or in anticipation of a separation from employment, but is received by the member while employed.
  - 5. Payments for unused vacation, annual leave, personal leave, sick leave, or compensatory time off, however denominated, whether paid in a lump sum or otherwise, regardless of when reported or paid.
  - 6. Payments for additional services rendered outside of normal working hours, whether paid in a lump sum or otherwise.
  - 7. Any employer-provided allowance, reimbursement, or payment, including, but not limited to, one made for housing, vehicle, or uniforms.
  - 8. Compensation for overtime work, other than as defined in Section 207(k) of Title 29 of the United States Code.
  - 9. Employer contributions to deferred compensation or defined contribution plans.
  - 10. Any bonus paid in addition to the compensation described in subdivision (a) of Government Code §7522.34.

- 11. Any other form of compensation the Board determines is inconsistent with the requirements of subdivision (a).
- 12. Any other form of compensation that this Board determines should not be pensionable compensation.
- 3. Pursuant to Government Code §7522.10, whenever pensionable compensation, as defined in §7522.34, is used in the calculation of a benefit, the pensionable compensation shall be subject to the monetary limitations set forth in subdivision §7522.10.

**FURTHER RESOLVED** that the above listed determinations by the Board of what is included or not included in pensionable compensation, shall be in effect until such time as this Board, the Legislature or the Courts take action that as a matter of law requires a different determination.

Regularly passed and adopted, by the San Mateo County Employees' Retirement Association, Board of Retirement, on April 28, 2020.

Robert Raw, Board Secretary		
Abstain, Trustees:		
Absent, Trustees:		
Noes, Trustees:		
Ayes, Trustees:		

SamCERA

### SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

April 28, 2020 Agenda Item 5.2

(ME)

**TO:** Board of Retirement

**FROM:** Scott Hood, Chief Executive Officer

**SUBJECT:** Presentation on Economic Assumptions for the June 30, 2020 Valuation

#### Recommendation

Discuss Economic Assumptions for the June 30, 2020 Actuarial Valuation. [Informational Only]

#### **Background**

Every year the Board adopts demographic and economic assumptions to be used in the upcoming annual actuarial valuation. After the valuation is completed, it will be presented to the Board along with the recommended employer and member contribution rates for the upcoming fiscal year.

#### Discussion

Nick Collier of Milliman, Inc. has prepared the attached presentation that discusses assumptions to be used for this year's valuation. He includes information on the potential impact that the current market downturn may have on the employer contribution rates. He also includes information on the impact of lowering the assumed earning rate from 6.50% to 6.25%. Milliman also addresses SamCERA's expected return over the next ten and 30 year periods.

#### Attachment

Milliman Presentation on Assumptions

# 2020 Experience and Assumption Study Economic Assumptions

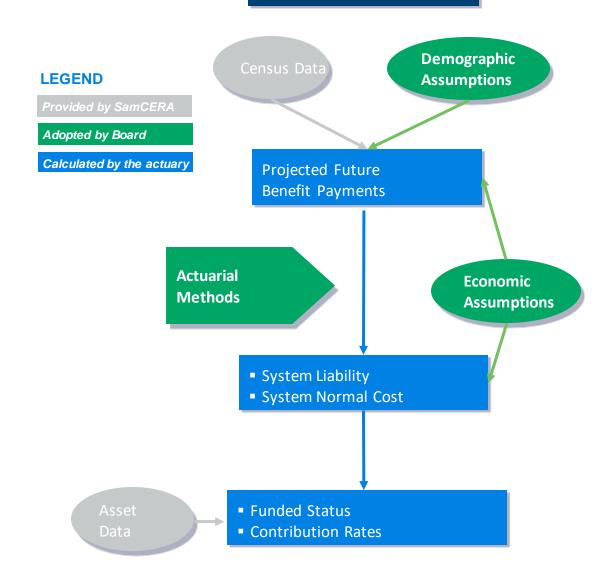
Nick Collier Craig Glyde

APRIL 28, 2020



### **Schedule**

- April 2020 meeting:
  - Discuss economic assumptions
- June 2020 meeting:
  - Adopt economic assumptions (Follow-up discussion if needed)
- July 2020 meeting
  - Demographic assumption discussion
  - Adopt assumptions to be used in 2020 valuation
- September 2020 meeting
  - Valuation results
  - Adopt member and employer contribution rates for fiscal year beginning July 1, 2021

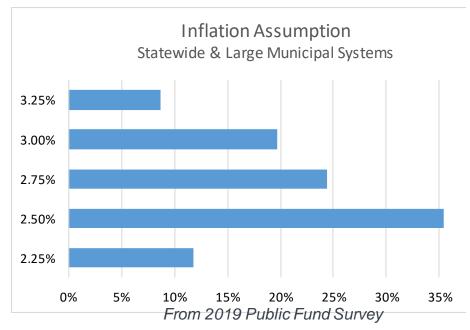


**Valuation Process** 

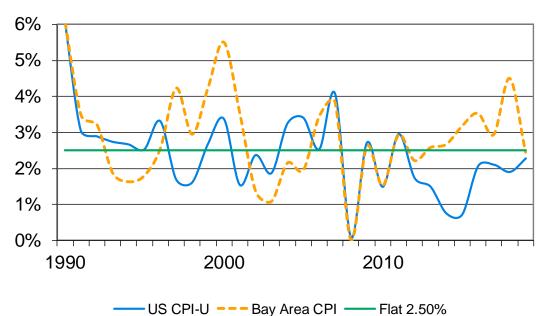


### **Price Inflation**

- Current price inflation assumption is 2.50%
  - CalPERS and CalSTRS are at 2.75%
  - 2.75% is median assumption for large systems, but 2.50% is now the most common
- Long-range Social Security projection is 2.6%
- Other forecasts are lower
  - Implied inflation from TIPS
  - Most investment consultants
- Current assumption is reasonable



#### **Historical Inflation**





3

## **General Wage Growth**

- An individual member's assumed annual salary increase is composed of:
  - Inflation
  - Real wage growth
  - Individual merit/longevity component
- Real wage growth represents the increase in wages in excess of inflation due to improvements in productivity and competitive market pressures
- National average real wage growth has been 0.6% over last 50 years
- Estimated SamCERA-specific real wage growth has been close to 1.0% (somewhat more for Safety and less for General and Probation) over last 30 years
- Current assumption is reasonable

	Wage	CPI	Real Wage
Decade	Growth	Increase	Inflation
2009-2018	2.4%	1.8%	0.6%
1999-2008	3.7%	2.5%	1.2%
1989-1998	4.1%	3.1%	1.0%
1979-1988	6.2%	5.9%	0.3%
1969-1978	6.6%	6.7%	-0.1%
Prior 50 Years	5		
1969-2018	4.5%	3.9%	0.6%

2.50%
<u>0.50%</u>
3.00%



## **Payroll Growth**

- The system payroll growth assumption is used in the calculation to amortize the unfunded liability
- Fairly standard among public retirement systems to have payroll growth equal to general wage growth
- Historical County payroll has increased at a greater rate than the general wage increase due to increase in number of active members, but this has for the most part levelled off over the last 10 years
- It is reasonable to keep the payroll growth assumption equal to the general wage growth assumption (currently 3.00%)



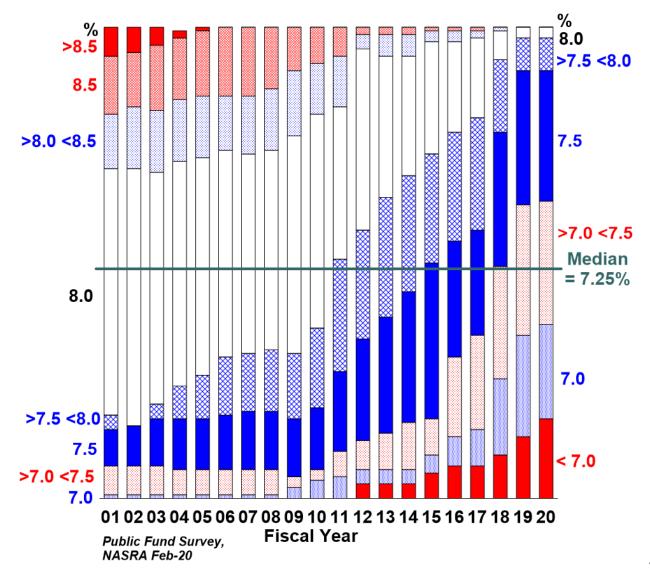
## **Expected Return**

- Current investment return assumption is 6.5%
- Verus' expected 10-year return for SamCERA is 6.3% as of March 31, 2020
  - Based on 1.6% assumed inflation
- Other investment consultants
  - Milliman's expectations
    - Slightly lower than 6% as of the end of 2019 (based on 2.3% assumed inflation)
    - Close to Verus' expectations as of that date
  - 2019 Horizon survey of capital market assumptions (survey of 18 advisors)
    - Outdated at this point, but to provide a relative perspective, average of long term capital market assumptions from Horizon are about 1% higher than Milliman's
- Investment return assumption should be net of all expenses
  - Assume 0.15% to 0.20% for administrative expenses
  - Assume 0.05% to 0.10% for "fixed" investment expenses (assuming indexing on equities and fixed income)



## **Investment Return – Other Systems**

- Median for statewide systems is 7.25%
- CalPERS and CalSTRS at 7.00%
- Other '37 Act systems at 7.00% or 7.25%



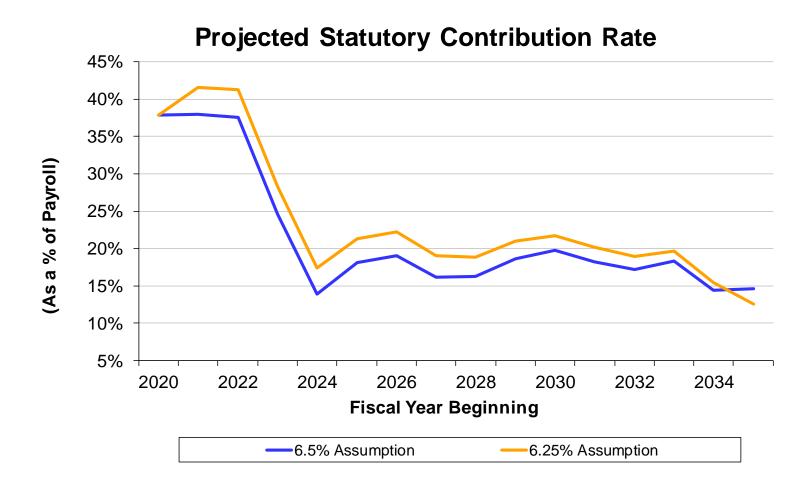


## Financial Impact of 6.25% Assumption

- Employer contribution rate
  - Estimated increase of 3.8% of pay for next fiscal year
- Member contribution rates Will vary by plan and member entry age, but rough estimates are:
  - Plan 4 General Increase of about 0.5% of pay (Example: \$20 a pay period based on \$4,000 bi-weekly)
  - Plan 7 General Increase of about 0.5% of pay (Example: \$15 a pay period based on \$3,000 bi-weekly)
  - Plan 4 Safety / Probation Increase of about 0.8% of pay (Example: \$40 a pay period based on \$5,000 bi-weekly)
  - Plan 7 Safety / Probation Increase of about 0.8% of pay (Example: \$32 a pay period based on \$4,000 bi-weekly)



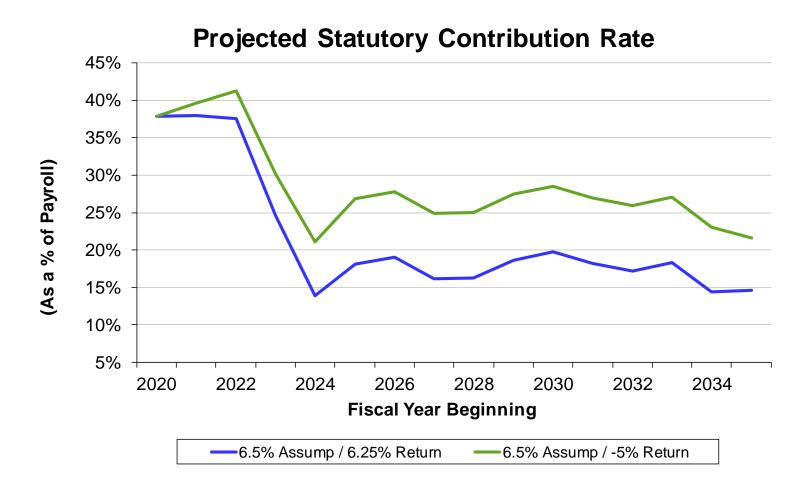
## Financial Impact of 6.25% Assumption – Projection



Note: Assumes 6.25% future returns under both scenarios.



## Impact of Poor FYE Return – No Assumption Change

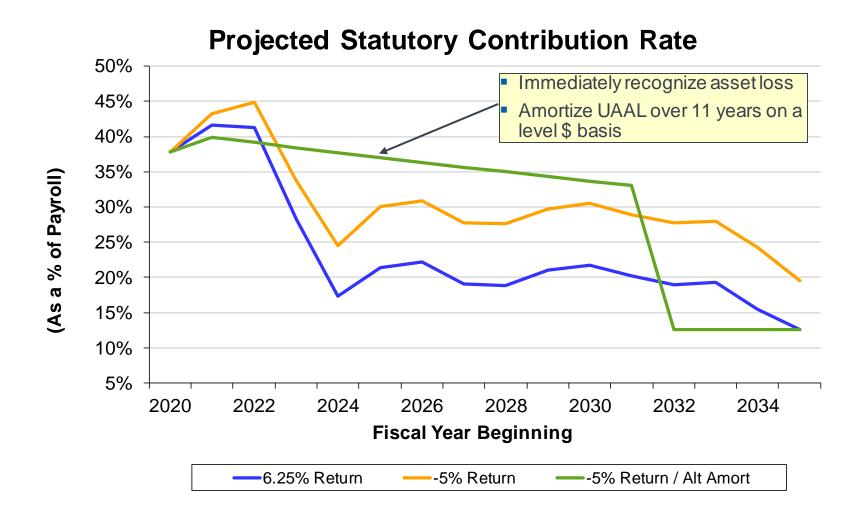


Note: Assumes 6.25% future returns under both scenarios.



## Financial Impact of 6.25% Assumption – Poor FYE2020 Return

- Assumes -5% FYE 2020 Return and 6.25% return assumption adopted
- SamCERA has options to mitigate large short-term increases in employer contribution rates
  - Example shown that reduces the short-term spike but still provides reasonable funding
  - Not a recommendation, just a reminder alternatives are available





### Conclusion

- Investment return assumption
  - Support for lowering assumption: Verus' 10-year expected return (net of expenses) is just fractionally above 6%
    - Milliman's capital market assumptions are generally close to Verus
  - Support for retaining assumption
    - Assumed long-term inflation is higher which should ultimately result in higher returns
    - Other investment consultants (as indicated by Horizon survey) have historically been more optimistic
- Other economic assumptions are reasonable
- Demographic assumptions will be discussed in July





## Questions



## **Caveats and Disclaimers**

This cost calculations shown in this presentation are based on the data, methods, assumptions and plan provisions described in our actuarial valuation report dated September 17, 2019. The statements of reliance and limitations on the use of this material is reflected in the actuarial report and still apply to this presentation.

These statements include reliance on data provided, on actuarial certification, and the purpose of the report.

Milliman's work product was prepared exclusively for SamCERA for a specific and limited purpose. It is a complex, technical analysis that assumes a high level of knowledge concerning SamCERA's operations, and uses LACERA's data, which Milliman has not audited. It is not for the use or benefit of any third party for any purpose. Any third party recipient of Milliman's work product who desires professional guidance should not rely upon Milliman's work product, but should engage qualified professionals for advice appropriate to its own specific needs.



#### SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

April 28, 2020 Agenda Item 6.1

**TO:** Board of Retirement

FROM: Michael Coultrip, Chief Investment Officer Michael R. Coultrip

SUBJECT: Preliminary Monthly Portfolio Performance Report for the Period Ended

March 31, 2020

#### Recommendation

Accept the preliminary performance report dated March 31, 2020.

#### **Background**

This preliminary report is intended to provide a high-level view of the portfolio and its trends. It is not intended to provide short-term performance upon which the Board would act. The quarterly performance metrics are not yet available for our private equity, private credit, private real asset, and real estate portfolios. The performance for these portfolios will be reflected in the quarterly performance report generated by Verus.

The attached performance report shows both net and gross of fee returns for the total plan on page one, with net composite returns (pages 2-3) and net manager returns (pages 4-10) also shown.

#### Discussion

The fund's net preliminary return for March was -8.6%, bringing the preliminary trailing twelve-month net return ending March 2020 to -4.6%. The preliminary twelve-month net return is below SamCERA's Plan Benchmark return of -2.5% and SamCERA's Actuarial Assumed Earnings Rate of 6.5%.

The global spread of the COVID-19 virus and the resulting impact on global economic growth led to a massive global risk-off environment. The U.S. equity market (measured by the S&P 500 Index) was down just under 25% in mid-March before rallying to end the month down 12.4%. Small-cap stocks were down over 20%. International markets were also down on the month. Developed international equity (as measured by MSCI EAFE) was down 13.3%, while emerging markets were down over 15%.

There was an unprecedented monetary and fiscal policy response in the U.S. The Federal Reserve cut short-term rates to basically 0%, and instituted a number of backstop provisions, many of which were implemented in the GFC, to ensure fixed income market liquidity. The speed and severity of both the market downturn and the resulting policy response (especially from the Fed) was remarkable.

The general U.S. fixed income market was lower by 0.60%, as credit spreads gapped wider while interest rates were lower across the board. The 10-year U.S. Treasury yield decreased 48 basis points and ended at 0.67% by month-end. High Yield fixed income returns were down 11.5% as spreads widened considerably in the dramatic risk-off environment. Commodities were down just under 13%, while MLP's were down just under 50%.

#### **Attachments**

Northern Trust Monthly Preliminary Performance Report Verus Capital Market Update

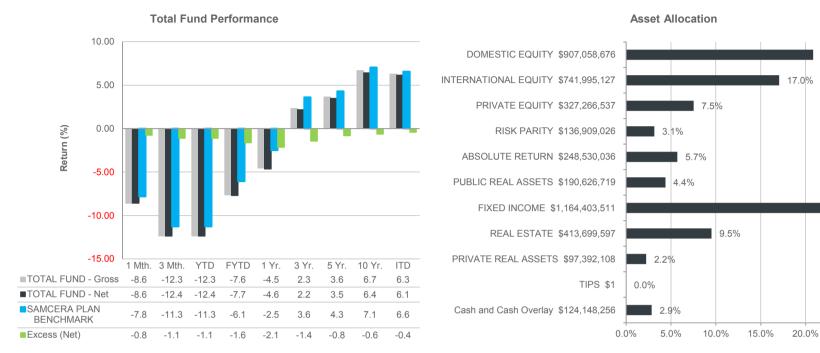


26.8%

30.0%

25.0%

20.8%

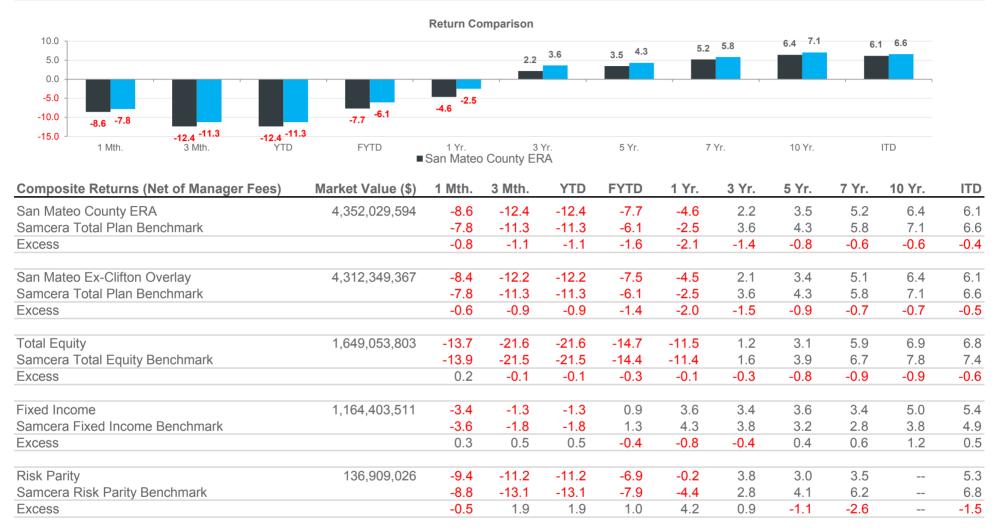


#### **Rolling Month End Annual Returns**



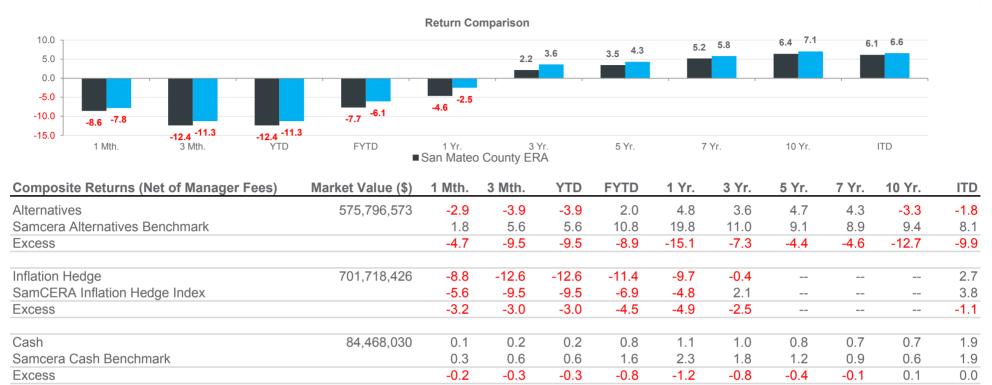














**SamCERA** 

Composite Returns (NET)	Market Value (\$)	1 Mth.	3 Mth.	YTD	FYTD	1 Yr.	3 Yr.	5 Yr.	7 Yr.	10 Yr.	ITD
Total Equity	1,649,053,803	-13.7	-21.6	-21.6	-14.7	-11.5	1.2	3.1	5.9	6.9	6.8
Samcera Total Equity Benchmark	1,073,003,003	-13.7	-21.5	-21.5	-14.7	-11.4	1.6	3.9	6.7	7.8	7.4
Excess		0.2	-0.1	-0.1	-0.3	-0.1	-0.3	-0.8	-0.9	-0.9	-0.6
LACESS		0.2	-0.1	-0.1	-0.5	-0.1	-0.5	-0.0	-0.9	-0.9	-0.0
Domestic Equity	907,058,676	-14.0	-21.6	-21.6	-14.2	-10.7	3.0	5.1	8.3	9.4	7.8
Samcera Dom. Equity Benchmark		-13.8	-20.9	-20.9	-12.7	-9.1	4.0	5.6	8.8	10.1	8.2
Excess		-0.3	-0.7	-0.7	-1.5	-1.6	-1.0	-0.5	-0.5	-0.7	-0.4
Large Cap Equity	848,865,961	-13.0	-20.2	-20.2	-12.6	-8.7	4.3	6.3	9.3	9.9	8.6
Russell 1000	,,	-13.2	-20.2	-20.2	-11.8	-8.0	4.6	6.2	9.3	10.4	8.9
Excess		0.3	0.0	0.0	-0.8	-0.7	-0.3	0.1	0.0	-0.5	-0.3
Blackrock Russell 1000	452,478,069	-13.2	-20.2	-20.2	-11.8	-8.0	4.6				5.8
Russell 1000	452,470,009	-13.2	-20.2	-20.2	-11.8	-8.0	4.6				5.7
Excess		0.0	0.0	0.0	0.0	-0.0	0.0				0.1
LACCOS		0.0	0.0	0.0	0.0	-0.0	0.0				0.1
DE Shaw Commingled Fund	126,248,819	-13.7	-21.3	-21.3	-13.1	-9.8	3.8	6.3			6.6
Russell 1000		-13.2	-20.2	-20.2	-11.8	-8.0	4.6	6.2			6.2
Excess		-0.5	-1.1	-1.1	-1.3	-1.8	-0.9	0.1			0.3
Acadian US MGD V-SL	133,233,462	-13.1	-21.4	-21.4	-15.0	-10.9					0.2
Russell 1000	, , -	-13.2	-20.2	-20.2	-11.8	-8.0					4.5
Excess		0.1	-1.2	-1.2	-3.2	-2.9					-4.3
Panagora Defuseq -SL	136,905,611	-14.5	-21.0	-21.0	-15.7	-11.0					3.2
Russell 1000	100,000,011	-13.2	-20.2	-20.2	-11.8	-8.0					4.5
Excess		-1.3	-0.7	-0.7	-3.9	-3.0					-1.3
	=0.405 = :-					6.1.5				4.0	
Small Cap Equity	58,192,715	-26.4	-36.7	-36.7	-31.4	-31.2	-9.5	-4.7	0.5	4.6	4.0
Russell 2000		-21.7	-30.6	-30.6	-25.5	-24.0	-4.6	-0.2	4.2	6.9	6.0
Excess		-4.7	-6.1	-6.1	-5.9	-7.2	-4.9	-4.4	-3.7	-2.3	-2.0
QMA US Small Cap	58,192,715	-26.4	-36.7	-36.7	-31.4	-31.2	-9.5				-4.2
Russell 2000		-21.7	-30.6	-30.6	-25.5	-24.0	-4.6				-0.5
Excess		-4.7	-6.1	-6.1	-5.9	-7.2	-4.9				-3.7





Composite Returns (NET) Market Value (\$) 1 Mth. 3 Mth. YTD **FYTD** 1 Yr. 3 Yr. 10 Yr. ITD 5 Yr. 7 Yr. International Equity 741.995.127 -13.4-21.6 -21.6 -15.3-12.5 -0.9 0.4 2.0 2.6 4.5 SamCERA Custom Hedge Intl -14.1 -22.2 -22.2 -16.4 -14.2 -1.5 -0.11.5 2.4 4.0 Excess 0.7 0.6 0.6 1.1 17 0.5 0.5 0.5 0.1 0.5 676.440.795 -12.6 -20.5 -20.5 -13.8-10.8 -0.2 0.8 2.6 3.1 3.5 **Developed Markets Equity** MS AC WIdxUS IMI Nt -15.1 -24.1 -24.1 -18.5-16.3 -2.3 -0.7 1.1 2.1 3.6 2.6 3.6 3.6 4.8 2.2 1.5 -0.1 **Excess** 5.5 1.5 0.9 Baillie Gifford 213.773.112 -11.9 -19.7-19.7 -10.6-5.4 2.2 2.5 4.2 5.4 MSCI ACWI ex USA Growth -10.9-18.2 -18.2 -11.0 -6.9 2.9 2.5 3.6 Excess -1.0 -1.6 -1.6 0.3 1.5 -0.7-0.00.5 --Blackrock EAFE Index Fund 226.952.946 -13.3-22.7 -22.7 -17.3-14.1 -1.5 -0.3-0.2 MSCI EAFE ND -13.3 -22.8 -22.8 -17.4 -14.4-1.8 -0.6 -0.5 0.1 0.1 0.1 0.1 0.3 0.3 0.3 0.3 Excess --Mondrian Investment Partners 190.897.824 -17.7-27.2 -27.2 -21.6 -20.5 -4.6 -2.10.3 3.3 1.8 MSCI ACWI xUSA Value -18.2 -28.5 -28.5 -24.6 -23.2 -5.9 -2.9 -0.70.7 2.9 **Excess** 0.5 1.3 1.3 3.0 2.7 1.3 8.0 1.0 1.1 0.4 Parametriccurr Ovrla 44.816.913 8.0 31.7 31.7 40.9 36.5 46.5 Excess -------**Emerging Markets Equity** -21.2 -30.7 -30.7 -28.3 -3.2 -2.3 65,554,331 -26.8 -7.6-3.7MSCI Emerging Markets ND -15.4 -23.6 -23.6 -18.2 -17.7-1.6 -0.4-0.4-0.1 Excess -5.8 -7.1 -7.1 -10.1 -9.1 -6.0 -3.3 -2.8 -2.2 EV Parametric EM 65.554.331 -21.2 -30.7 -30.7-28.3 -26.8 -7.6 -2.8 -15.4 -23.6 -23.6 -18.0 -17.4 -1.3 MSCI Emerging Markets GD 1.4 -5.8 -7.1 -7.1 -10.3 -9.5 -6.4 -4.2 **Excess** Fixed Income 0.9 5.4 1,164,403,511 -3.4 -1.3 -1.3 3.6 3.4 3.6 3.4 5.0 Samcera Fixed Income Benchmark -3.6 -1.8 -1.8 1.3 4.3 3.8 3.2 2.8 3.8 4.9 **Excess** 0.3 0.5 0.5 -0.4 -0.8 -0.4 0.4 0.6 1.2 0.5



**SamCERA** 

march of, 2020											
Composite Returns (NET)	Market Value (\$)	1 Mth.	3 Mth.	YTD	FYTD	1 Yr.	3 Yr.	5 Yr.	7 Yr.	10 Yr.	ITD
Core Fixed Income	779,414,298	-1.7	0.5	0.5	3.1	5.8	3.8	3.2	3.3	4.5	5.2
BBG Barclays US Aggregate	110,414,200	-0.6	3.1	3.1	5.7	8.9	4.8	3.4	3.2	3.9	5.0
Excess		-1.1	-2.6	-2.6	-2.6	-3.1	-1.0	-0.1	0.2	0.6	0.2
FIAM Core Bond	240,111,118	-2.3	1.0	1.0	3.8	7.1	4.4	3.4	3.3	4.4	4.7
BBG Barclays US Aggregate		-0.6	3.1	3.1	5.7	8.9	4.8	3.4	3.2	3.9	4.5
Excess		-1.8	-2.2	-2.2	-1.9	-1.9	-0.4	0.1	0.2	0.5	0.3
Western Total Return	129,900,961	-7.4	-8.7	-8.7	-4.9	-2.8	1.4				2.5
BBG Barclays US Aggregate		-0.6	3.1	3.1	5.7	8.9	4.8				3.8
Excess		-6.8	-11.9	-11.9	-10.6	-11.7	-3.4				-1.3
Blackrock Inter Gov	208,865,785	2.0	5.2	5.2	6.5	9.0	4.3				4.1
BBG Barclays US Aggregate	200,000,700	-0.6	3.1	3.1	5.7	8.9	4.8				4.8
Excess		2.6	2.0	2.0	0.8	0.1	-0.6				-0.7
DoubleLine	200,536,434	0.3									0.3
BBG Barclays US Aggregate		-0.6									-0.6
Excess		0.9									0.9
Opportunistic Credit	384,989,213	-6.7	-5.0	-5.0	-3.5	-0.9	3.3	4.7	5.4	7.9	8.0
BB Barc BA Intermediate HY Ind	, ,	-8.9	-10.0	-10.0	-6.3	-3.6	1.9	3.1	3.7	5.6	6.1
Excess		2.2	5.0	5.0	2.8	2.7	1.5	1.6	1.7	2.3	1.9
Pimco Private Income	27,263,131	0.0	1.6	1.6	4.7	4.7					4.7
BB Barc BA Intermediate HY Ind	27,203,131	-8.9	-10.0	-10.0	-6.3	-3.6					-3.6
Excess		8.9	11.7	11.7	11.0	8.3					8.3
AG CREDIT SOL FU LP	8,750,781	-0.8	15.5	15.5							15.5
BB Barc BA Intermediate HY Ind		-8.9	-10.0	-10.0							-10.0
Excess		8.1	25.6	25.6							25.6
AG Opportunistic Whole Loan	4,043,118	2.5	2.5	2.5	12.8	13.9	20.8	14.7			11.6
BB Barc BA Intermediate HY Ind		-8.9	-10.0	-10.0	-6.3	-3.6	1.9	3.1			3.2
Excess		11.5	12.6	12.6	19.1	17.5	18.9	11.6			8.4





Watch 31,2020									Jair 1		
Composite Returns (NET)	Market Value (\$)	1 Mth.	3 Mth.	YTD	FYTD	1 Yr.	3 Yr.	5 Yr.	7 Yr.	10 Yr.	ITD
Angelo Gordon	3,330,228	0.0	2.4	2.4	13.1	20.3	24.2	16.8	15.7		15.0
BB Barc BA Intermediate HY Ind	3,000,220	-8.9	-10.0	-10.0	-6.3	-3.6	1.9	3.1	3.7		3.9
Excess		8.9	12.5	12.5	19.4	23.9	22.4	13.7	12.0		11.1
Blackrock Direct Lending Feede	2,458,242	0.0	-7.0	-7.0	-7.0						-7.0
BB Barc BA Intermediate HY Ind		-8.9	-10.0	-10.0	-6.3						-3.9
Excess		8.9	3.1	3.1	-0.7						-3.1
Beach Point Select Fund	54,381,842	-2.0	1.0	1.0	3.5	8.9	6.0	7.2			7.6
BB Barc BA Intermediate HY Ind	, ,	-8.9	-10.0	-10.0	-6.3	-3.6	1.9	3.1			3.3
Excess		6.9	11.0	11.0	9.8	12.5	4.1	4.1			4.3
Brigade Cap Mngmt	66,530,324	-18.8	-15.7	-15.7	-16.1	-14.3	-3.0	0.5	1.4		4.0
BB Barc BA Intermediate HY Ind	00,030,024	-8.9	-10.0	-10.0	-6.3	-3.6	1.9	3.1	3.7		5.4
Excess		-9.8	-10.0	-10.0	-9.8	-10.7	-4.8	-2.6	-2.2		-1.4
White Oak Yield Spec	33,129,488	-0.0	2.3	2.3	5.4	7.4					
BB Barc BA Intermediate HY Ind		-8.9	-10.0	-10.0	-6.3	-3.6	1.9				1.9
Excess		8.9	12.4	12.4	11.7	11.0					
PIMCO Div. Income Fund	102,730,971	-8.8	-7.5	-7.5	-4.8	-1.4					1.9
BB Barc BA Intermediate HY Ind	-, -, -, -	-8.9	-10.0	-10.0	-6.3	-3.6					0.8
Excess		0.2	2.5	2.5	1.4	2.2					1.1
TCP Direct Lending VIII	33,843,399	2.3	2.3	2.3	4.4	7.0	6.6				
BB Barc BA Intermediate HY Ind	33,043,399	-8.9	-10.0	-10.0	-6.3	-3.6	1.9				3.3
Excess		11.2	12.3	12.3	10.7	10.6	4.7				
Franklin Templeton	48,527,689	-4.6	-5.7	-5.7	-7.7	-7.9	-2.0	0.4	0.6		2.7
BB Barclays Multiverse Index		-2.8	-1.1	-1.1	0.2	3.5	3.4	2.7	1.7		2.1
Excess		-1.8	-4.6	-4.6	-7.8	-11.4	-5.4	-2.3	-1.1		0.5
Risk Parity	136,909,026	-9.4	-11.2	-11.2	-6.9	-0.2	3.8	3.0	3.5		5.3
Samcera Risk Parity Benchmark		-8.8	-13.1	-13.1	-7.9	-4.4	2.8	4.1	6.2		6.8
Excess		-0.5	1.9	1.9	1.0	4.2	0.9	-1.1	-2.6		-1.5





Composite Returns (NET) Market Value (\$) 1 Mth. 3 Mth. YTD **FYTD** 1 Yr. 3 Yr. 10 Yr. ITD 5 Yr. 7 Yr. AQR Global Risk III 67.231.927 -9.6 -12.7-12.7 -7.7 0.6 3.9 2.5 2.5 4.4 6.2 Samcera Risk Parity Benchmark -8.8 -13.1 -13.1 -7.9 -4.4 2.8 4.1 6.8 Excess -0.8 0.40.40.2 5.0 1 1 -16 -37 -2.3 69.677.098 -9.0 -9.2 -9.2 -5.6 -0.4 3.8 3.7 4.9 Panagora Samcera Risk Parity Benchmark -8.8 -13.1 -13.1 -7.9 -4.4 2.8 4.1 4.6 -0.2 3.9 3.9 2.3 3.9 1.0 -0.5 Excess 0.3 Alternatives 575.796.573 -2.9 -3.9 -3.9 2.0 4.8 3.6 4.7 4.3 -3.3 -1.8 Samcera Alternatives Benchmark 1.8 5.6 5.6 10.8 19.8 11.0 9.1 8.9 9.4 8.1 Excess -4.7 -9.5 -9.5 -8.9 -15.1 -7.3-4.4 -4.6 -12.7-9.9 Private Equity 327.266.537 2.7 4.0 4.0 17.5 25.7 15.2 15.0 15.1 -13.7 Samcera PE Benchmark -13.5-20.3 -20.3-10.7 -6.4 7.1 8.9 12.2 13.8 16.3 24.3 24.3 28.2 32.1 6.1 2.9 -27.4 Excess 8.1 Absolute Return 248.530.036 -9.1 -12.5-12.5-14.1 -15.7 -8.1 -3.2 0.3 0.5 Samcera LIBOR + 4% 0.4 1.4 1.4 4.5 6.1 5.9 5.3 5.0 4.8 -13.9 Excess -9.5 -13.9-18.5-21.8 -14.0 -8.5 -4.7-4.3 AQR Delta XN 103.557.464 -16.2 -22.3 -22.3 -26.3 -29.5 -15.2 -7.6 -3.0 -2.1 4.8 Samcera LIBOR + 4% 0.4 1.4 1.4 4.5 6.1 5.9 5.3 5.0 -23.7 -16.6 -23.7 -30.8 -35.6 -21.1 -12.9-8.0 -6.9 Excess Aberdeen Std GARS -2.7 -2.2 -2.2 0.6 2.0 1.2 0.4 73,516,727 Samcera LIBOR + 4% 0.4 1.4 1.4 4.5 6.1 5.9 5.4 Excess -3.1 -3.6 -3.6 -3.9 -4.1 -4.7 -5.0 Graham Global Investment 71.455.845 -4.7 -4.7 Samcera LIBOR +4% 0.4 0.9 -5.2 Excess -5.6 Inflation Hedge -0.4 2.7 701,718,426 -8.8 -12.6 -12.6 -11.4 -9.7 SamCERA Inflation Hedge Index -5.6 -9.5 -9.5 -6.9 -4.8 2.1 3.8 ---3.2 -3.0 -3.0 -4.5 -4.9 -2.5 -1.1 **Excess** 





Mai 011 0 1,2020											
Composite Returns (NET)	Market Value (\$)	1 Mth.	3 Mth.	YTD	FYTD	1 Yr.	3 Yr.	5 Yr.	7 Yr.	10 Yr.	ITD
Real Estate	413,699,597	0.0	2.1	2.1	4.2	6.6	7.7				7.9
Samcera NCREIF ODCE EW (gross)	+10,099,091	0.0	0.0	0.0	2.9	4.3	6.7				7.2
Excess		0.0	2.1	2.1	1.2	2.2	1.0				0.8
- Accord		0.0					1.0				0.0
Invesco Core Real Estate	275,735,841	0.0	2.2	2.2	4.1	6.2	7.7	9.3	9.9	11.3	7.8
Samcera NCREIF ODCE EW (gross)		0.0	0.0	0.0	2.9	4.3	6.7	8.5	9.9	11.4	7.6
Excess		0.0	2.2	2.2	1.1	1.9	1.0	0.7	0.0	-0.1	0.2
Invesco US Val IV	14,544,147	0.0	4.7	4.7	11.1	16.0	12.8				12.7
Samcera NCREIF ODCE EW (gross)		0.0	0.0	0.0	2.9	4.3	6.7				8.1
Excess		0.0	4.7	4.7	8.2	11.7	6.1				4.7
PGIM Real Estate US Debt Fund	84,253,087	0.0	1.4	1.4	3.0	6.1					4.6
Samcera NCREIF ODCE EW (gross)		0.0	0.0	0.0	2.9	4.3					6.7
Excess		0.0	1.4	1.4	0.1	1.7					-2.1
Invesco US VAL V	9,166,522	0.0	4.9	4.9	11.3	6.3					5.6
Samcera NCREIF ODCE EW (gross)		0.0	0.0	0.0	2.9	4.3					
Excess		0.0	4.9	4.9	8.4	2.0					
Harrison Street Core Property	30,000,000	0.0	0.0	0.0							0.0
Samcera NCREIF ODCE EW (gross)		0.0	0.0	0.0							0.0
Excess		0.0	0.0	0.0							0.0
Public Real Assets	190,626,719	-24.9	-34.8	-34.8	-33.9	-33.2	-10.2				
SamCera Liquid Real Asset Inde		-16.6	-26.8	-26.8	-24.5	-23.1	-5.4				-0.5
Excess		-8.2	-7.9	-7.9	-9.5	-10.2	-4.8				
CUSHING MLP ALPHA TR	66,770										
50% BC US TIPS/50% SamCERA CRA											
Excess											
SSGA CST REAL ASSET NL	190,559,950	-16.2	-26.5	-26.5	-24.3	-23.0	-5.4				
SamCera Liquid Real Asset Inde		-16.6	-26.8	-26.8	-24.5	-23.1	-5.4				-2.7
Excess		0.4	0.3	0.3	0.2	0.1	-0.1				





Market Value (\$) 1 Mth. 3 Yr. 10 Yr. **Composite Returns (NET)** 3 Mth. YTD **FYTD** 1 Yr. 5 Yr. 7 Yr. ITD 97,392,108 **Private Real Assets** 0.6 1.9 2.3 1.9 0.1 -4.1 7.7 SamCERA Private Real Asset Idx 2.9 3.6 3.6 5.9 4.6 11.5 7.4 --Excess -2.3 -1.7 -1.7 -4.5 -9.2 -10.0 0.4 84,468,030 Cash 0.1 0.2 0.2 8.0 1.1 1.0 8.0 0.7 0.7 1.9 0.6 1.6 2.3 1.8 1.2 Samcera Cash Benchmark 0.3 0.6 0.9 0.6 1.9 Excess -0.2 -0.3 -0.3 -0.8 -1.2 -0.8 -0.4 0.0 -0.1 0.1 2.1 General Account 47.810.120 0.1 0.4 0.4 1.4 1.9 1.3 1.0 8.0 2.0 Transition Account 8 County Treasury Pool 36,657,902 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 2.4 0.4 Ex-Parametric MN Overlay 39,680,227 -42.2 -42.2 -35.8 -31.0 -31.0 7.4 16.3 15.0 San Mateo County ERA 4,352,029,594 -8.6 -12.4 -12.4 -7.7 -4.6 2.2 3.5 5.2 6.4 6.1 -2.5 Samcera Total Plan Benchmark -7.8 -11.3 -11.3 -6.1 3.6 4.3 5.8 7.1 6.6 Excess -0.8 -1.1 -1.1 -1.6 -2.1 -1.4 -0.8 -0.6 -0.6 -0.4

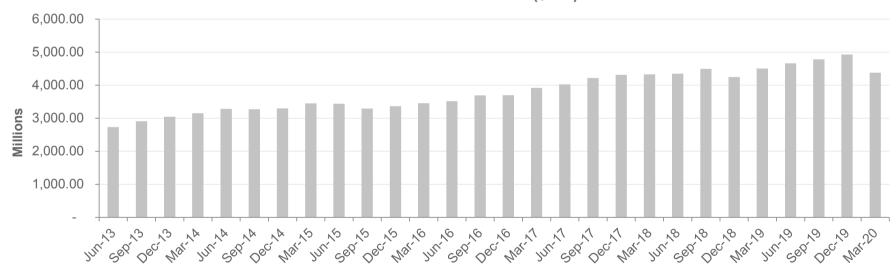




#### **Record of Asset Growth**

	<b>Three Months</b>	One Year
TOTAL FUND		
Beginning Market Value	4,926,505,492	4,502,110,680
Contributions	100,161,885	319,279,377
Withdrawals	-58,441,027	-257,337,925
Income Received	13,732,628	58,168,635
Gain/Loss	-629,598,620	-268,988,663
Ending Market Value	4,352,029,594	4,352,029,594

#### **Net Asset Values Over Time (\$000)**







#### **Actual vs Target Weights**



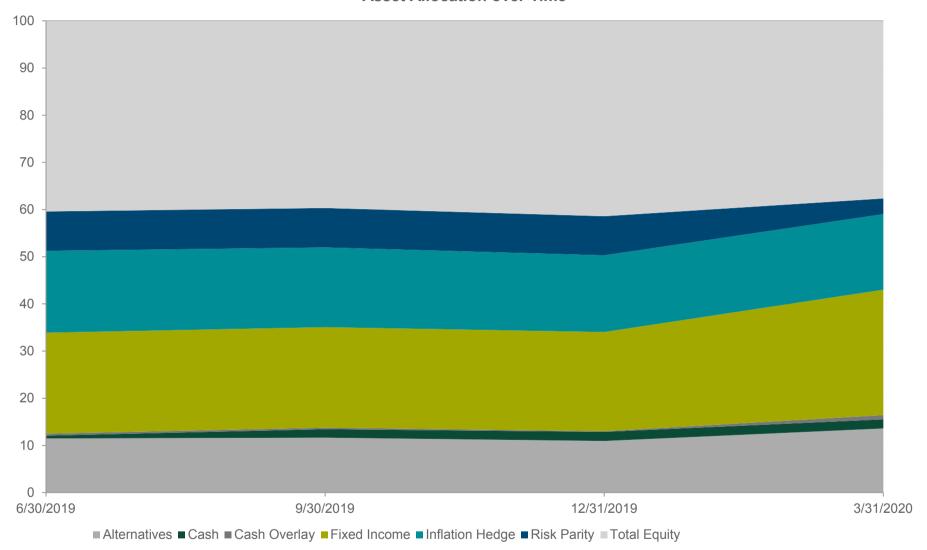
■ Actual	Targe
_ , , , , , , , , , , , , , , , , , , ,	

	Min	Actual	<b>Target</b>	Deviation	Max
Domestic Equity	20.0	20.8	22.0	-1.2	24.0
International Equity	16.0	17.0	18.0	-1.0	20.0
Fixed Income	20.0	26.8	22.0	4.8	24.0
Private Equity	4.0	7.5	6.0	1.5	8.0
Risk Parity	6.0	3.1	8.0	-4.9	10.0
Absolute Return	4.0	5.7	6.0	-0.3	8.0
TIPS	0.0	0.0	1.0	-1.0	3.0
Public Real Assets	4.0	4.4	6.0	-1.6	8.0
Real Estate	6.0	9.5	8.0	1.5	10.0
Private Real Assets	0.0	2.2	2.0	0.2	4.0



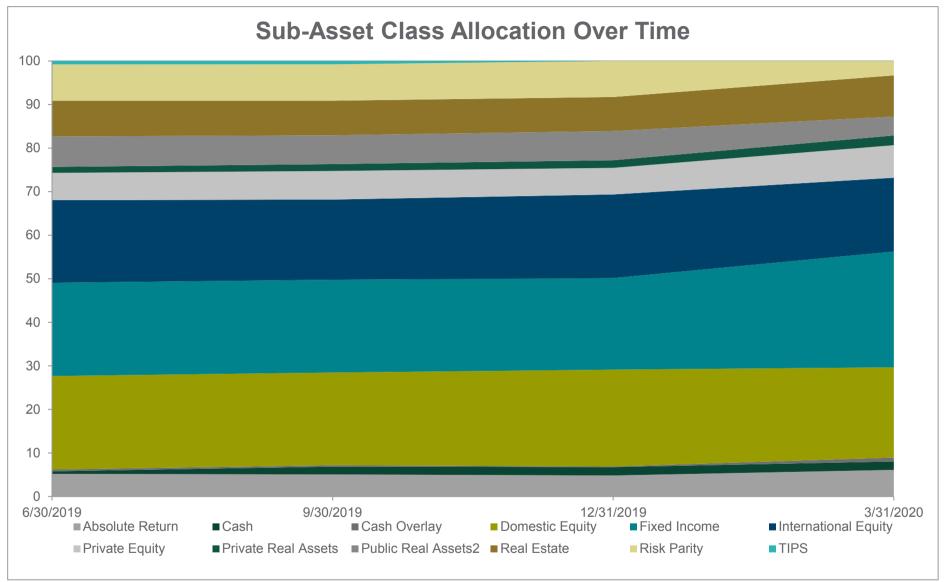


#### **Asset Allocation over Time**











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## Market commentary

#### **U.S. ECONOMICS**

- Roughly 17 million people, or around 10% of the U.S. labor force filed for unemployment in the final three weeks of March, indicating the historic impact the social distancing controls have had on the U.S. labor market. Claims are expected to remain high, and many analysts believe the recent claims data have been understated due to the sheer volume of claims perhaps overwhelming processing capacity.
- The broad U-3 unemployment rate rose from 3.5% to 4.4% in the March household survey. The number of unemployed people on temporary layoff more than doubled to 1.8 million, while the number of permanent job losers increased by 177,000 to reach 1.5 million.
- The NFIB Small Business Optimism Index registered its largest ever monthly decline in March, falling from 104.5 to 96.4. Surveys showed that most employers have been negatively impacted by COVID-19 and half can survive no longer than two months under current conditions.

#### **U.S. EQUITIES**

- The S&P 500 Index declined 12.4% over the period, marking its 15<sup>th</sup> worst monthly return since 1871. Before making a partial recovery in late March, the S&P 500 Price Index hit intra-month lows of 2237 on March 23rd and was down 24.3% over the month-to-date.
- The VIX Index of implied volatility reached levels not seen since the Global Financial Crisis and reached a closing high of 82.7 on March 16<sup>th</sup>. During the Global Financial Crisis, the VIX briefly eclipsed 100.0 intra-day but never closed at a higher level than 80.9.
- The month-end forward P/E ratio of the S&P 500 Index was 15.9x, below the 5-year average (16.7) and above the 10-year average (15.0).

#### **U.S. FIXED INCOME**

- The Federal Reserve responded quickly and forcefully to ensure the flow of credit to U.S. households and businesses. Over the course of the month, the Fed cut the range for federal funds from 1.50-1.75% to 0.00-0.25% and reintroduced several crisis-era liquidity programs from its arsenal of monetary policy tools.
- On March 15<sup>th</sup>, the Fed announced it would be buying \$700B in Treasuries and agency mortgage-backed securities. Later in the month, the Fed expanded its guidance on purchases, and pledged to buy securities "in the amounts needed to support smooth market functioning and effective transmission of monetary policy."
- U.S. Treasuries provided downside protection as yields pushed lower across the curve, and the 10-year Treasury yield fell from 1.15% to 0.67%. The Treasury curve steepened slightly as shorterterm yields fell further than yields on longer-dated Treasuries.

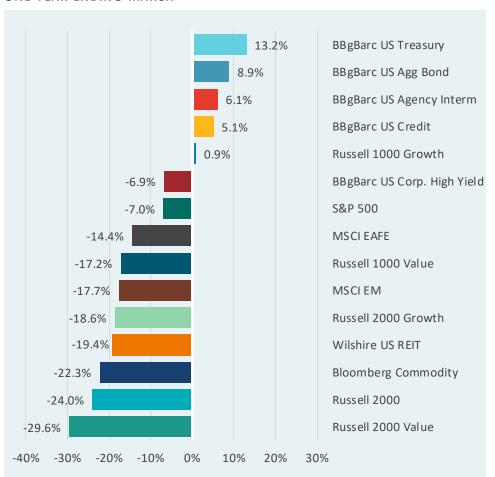
#### **INTERNATIONAL MARKETS**

- COVID-19 news flow gripped global markets as the epicenter of the pandemic moved from Wuhan to Italy and Spain, and then to the Eastern seaboard of the United States. The confirmed global death toll swelled from just under 3,000 to 42,107.
- Global governments raced to provide fiscal support to cushion the economic impacts of COVID-19 related disruptions. Japanese officials pledged support equal to roughly 20% of GDP, and U.S. officials passed a \$2.2 trillion package worth about 10% of GDP.
- Services purchasing managers' indices, which are less cyclical and normally stickier, plunged around the world. The J.P. Morgan Global Services PMI fell from 47.1 to 37.0 in March.

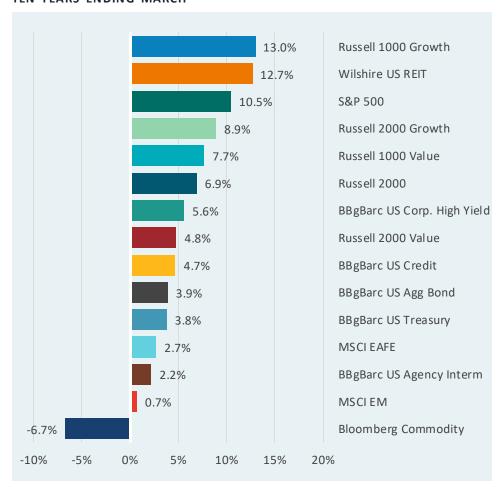


## Major asset class returns

#### ONE YEAR ENDING MARCH



#### TEN YEARS ENDING MARCH



Source: Morningstar, as of 3/31/20

Source: Morningstar, as of 3/31/20



# U.S. large cap equities

- The S&P 500 Index experienced a sharp decline in March and fell 12.4% over the month. Weakness was broad, and all eleven GICS sectors posted declines.
- Volatility reached historic levels over the month. The 10-day trailing annualized volatility of the S&P 500 Index rose from 27.8% to 73.5% and reached intramonth peaks of 127.3% on March 24<sup>th</sup>. Over 22 trading sessions, the average absolute value percentage move of the S&P 500 was 5.0%, and the index moved up or down by more than 7% on five separate occasions.
- The severe decline in the S&P 500 Index was exacerbated by the extraordinary demand and supply pressures faced by the Energy (-34.8%) sector. Poor performance from Financials (-21.3%) presented additional headwinds.
- According to FactSet, S&P 500 earnings are expected to decline -10.0% from the prior year in Q1 2020.
   Revenues are expected to grow +1.0% from the prior year, though revenue growth projections have fallen by 3.8% since the end of last year.

#### **S&P 500 PRICE INDEX**

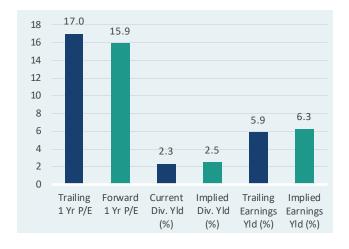


# IMPLIED VOLATILITY (VIX INDEX)



#### Source: CBOE, as of 3/31/20

#### **S&P 500 VALUATION SNAPSHOT**



Source: Bloomberg, as of 3/31/20



# Domestic equity size and style

- The value factor dramatically underperformed the growth factor in March. The Russell 3000 Value Index (-17.6%) underperformed the Russell 3000 Growth Index (-10.4%) by 7.2%. Over the year-to-date, the Russell 3000 Value Index has underperformed its growth counterpart by 12.5%.
- Large-cap equities proved significantly more insulated (relative to small-cap equities) from the spike in economic uncertainty generated by the COVID-19 outbreak. The Russell 1000 Index declined only -13.2% while the Russell 2000 Index lost -21.7%.
- Much of the underperformance of the value factor relative to the growth factor in March was explained by differences in sector composition across indices. Energy stocks in the S&P 500 fell -34.8% and drove the underperformance of value. Information Technology stocks in the index declined only -8.6% and helped to buoy declines in growth factor indices.
- Exposure to the momentum factor paid investors in March. The Bloomberg U.S. Pure Momentum Factor Index registered a +1.2% return for the month.

#### VALUE VS. GROWTH RELATIVE VALUATIONS



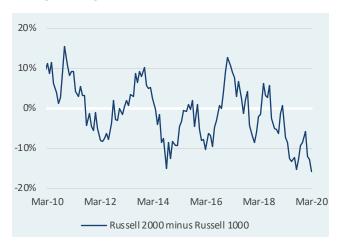
Source: Russell, Bloomberg, as of 3/31/20

# VALUE VS. GROWTH 1-YR ROLLING RELATIVE PERFORMANCE



Source: FTSE, Bloomberg, as of 3/31/20

# SMALL VS. LARGE 1-YR ROLLING RELATIVE PERFORMANCE

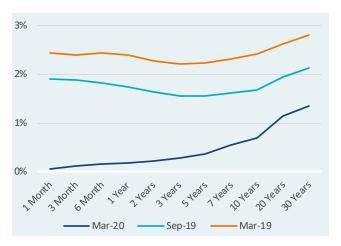




# Fixed income

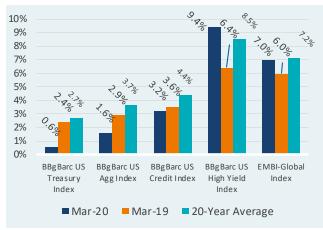
- To allay concerns over dollar liquidity in global dollar funding markets, the Federal Reserve opened dollar liquidity swap lines with foreign central banks, and rolled out a FIMA repo facility, allowing foreign central banks and monetary authorities to enter repurchase agreements with the Federal Reserve.
- Hard-currency denominated emerging market debt was the worst performer within fixed income (J.P. Morgan EMBI Global Diversified -13.8%). Several countries, including Mexico and South Africa, experienced sovereign debt rating downgrades.
- Breakeven inflation rates, which are calculated by subtracting TIPS yields from equivalent-maturity nominal Treasury yields, fell materially over the period. However, declines in breakeven inflation rates can also capture the effects of temporary liquidity imbalances. Treasury liquidity exceeded TIPS liquidity in March and drove some of the decline in breakeven inflation rates.
- U.S. investment grade credit spreads surged from
   1.22% to 2.72% and reached intra-month highs of
   3.73%. High-yield credit spreads spiked from 5.00% to
   as high as 11.00% and finished the month at 8.80%.

#### U.S. TREASURY YIELD CURVE



Source: Bloomberg, as of 3/31/20

#### **NOMINAL YIELDS**



Source: Morningstar, as of 3/31/20

#### BREAKEVEN INFLATION RATES

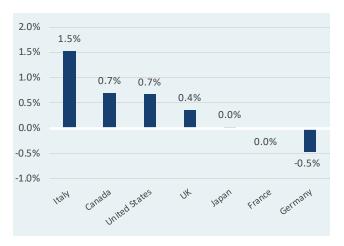




# Global markets

- Global equities (MSCI ACWI) fell -13.5% and emerging market equities (-15.4%) underperformed. Within emerging market equity, the Latin American segment (-34.5%) significantly underperformed the Asian component (-11.7%) in U.S. dollar terms. Weakness in Latin American currencies, specifically the Mexican peso, versus the U.S. dollar, exacerbated weakness.
- International developed equities (MSCI EAFE) returned
   -13.3%, in line with the global benchmark. Eurozone equities (-17.2%) lagged Japanese equities (-7.1%) in dollar terms, and currency impacts were negligible.
- The Bloomberg Dollar Spot Index, which measures the strength of the U.S. dollar relative to both developed and emerging market currency pairs, advanced 3.1%. Between March 9<sup>th</sup> and March 23<sup>rd</sup>, the index gained 8.9% as dollar liquidity became constrained. The index gave back some of those gains by month-end as Fed intervention in dollar funding markets eased strains.
- On March 31<sup>st</sup>, the blended forward 12-month P/E ratio of the MSCI ACWI Index was 14.3, below the 5-year monthly average (15.3). If expected earnings were to fall by 20%, the current forward P/E would be 17.8x.

#### **GLOBAL SOVEREIGN 10-YEAR YIELDS**



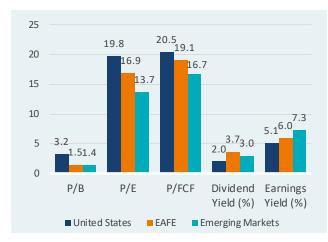
Source: Bloomberg, as of 3/31/20

#### U.S. DOLLAR MAJOR CURRENCY INDEX



Source: Federal Reserve, as of 3/31/20

# MSCI VALUATION METRICS (3-MONTH AVG)





# Commodities

- The Bloomberg Commodity Index declined -12.8% for the month, bringing year-to-date performance to -23.3%. While the entire commodity complex performed poorly, the decline in the overall index was driven primarily by a rout in the crude oil markets resulting in a -46.8% decline in the Petroleum component.
- A dearth in global oil demand driven by COVID-19 related economic disruptions and the concurrent emergence of a supply shock in the form of a price war between Saudi Arabia and Russia led the price of a barrel of West Texas Intermediate crude oil to fall from \$44.94 to \$20.48.
- At its March 6<sup>th</sup> meeting, OPEC elected not to extend the production cuts it had kept in place since December 2016. With the production cuts expiring at the end of March, the U.S. Energy Information Administration increased its forecast for OPEC liquid fuels production by 150,000 and 200,000 barrels per day in 2020 and 2021, respectively.
- The Bloomberg Precious Metals Sub-Index outperformed the overall index but still posted a return of -1.4%. Spot gold prices fell 0.5% to \$1,577 per ounce, faced with the dual pressures of rebalancing activity following strong relative performance, as well as a stronger U.S. dollar.

#### INDEX AND SECTOR PERFORMANCE

	Month	QTD	YTD	1 Year	3 Year	5 Year	10 Year
Bloomberg Commodity	(12.8)	(23.3)	(23.3)	(22.3)	(8.6)	(7.8)	(6.7)
Bloomberg Agriculture	(3.3)	(9.9)	(9.9)	(5.3)	(9.1)	(7.2)	(3.5)
Bloomberg Energy	(35.1)	(51.1)	(51.1)	(52.9)	(19.8)	(18.8)	(17.1)
Bloomberg Grains	(0.6)	(7.2)	(7.2)	(2.6)	(7.9)	(8.7)	(3.6)
Bloomberg Industrial Metals	(9.7)	(18.5)	(18.5)	(22.7)	(5.5)	(3.4)	(6.1)
Bloomberg Livestock	(13.5)	(28.1)	(28.1)	(35.5)	(11.0)	(9.7)	(5.6)
Bloomberg Petroleum	(46.8)	(60.1)	(60.1)	(57.6)	(19.6)	(18.2)	(14.5)
Bloomberg Precious Metals	(1.4)	(1.1)	(1.1)	15.7	3.7	3.2	1.7
Bloomberg Softs	(12.4)	(16.8)	(16.8)	(13.7)	(15.5)	(7.5)	(6.1)

#### Source: Morningstar, as of 3/31/20

#### **COMMODITY PERFORMANCE**



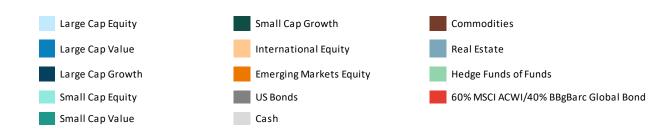


# Appendix



# Periodic table of returns

EST		1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	YTD	5-Year	10-Year
<u>.</u>	US Bonds	38.7	66.4	31.8	14.0	25.9	56.3	26.0	34.5	32.6	39.8	5.2	79.0	29.1	14.3	18.6	43.3	13.5	13.3	31.7	37.3	6.7	36.4	3.1	10.4	13.0
	Cash	27.0	43.1	22.8	8.4	10.3	48.5	22.2	21.4	26.9	16.2	1.4	37.2	26.9	7.8	18.1	38.8	13.2	5.7	21.3	30.2	1.9	31.4	0.4	7.5	10.4
	Real Estate	20.3	33.2	12.2	7.3	6.7	47.3	20.7	20.1	23.5	15.8	-6.5	34.5	24.5	2.6	17.9	34.5	13.0	0.9	17.3	25.0	0.0	28.5	0.0	6.2	10.1
	Hedge Funds of Funds	19.3	27.3	11.6	3.3	1.6	46.0	18.3	14.0	22.2	11.8	-21.4	32.5	19.2	1.5	17.5	33.5	11.8	0.6	12.1	22.2	-1.5	26.5	-6.0	3.4	8.9
	60/40 Global Portfolio	16.2	26.5	7.0	2.8	1.0	39.2	16.5	7.5	18.4	11.6	-25.9	28.4	16.8	0.4	16.4	33.1	6.0	0.0	11.8	21.7	-3.5	25.5	-13.3	3.0	7.7
	Large Cap Growth	8.7	21.3	4.1	-2.4	-6.0	29.9	14.3	6.3	15.5	10.3	-33.8	23.3	16.1	-2.1	15.3	23.3	4.9	-0.8	11.2	14.6	-6.0	22.4	-14.1	1.9	6.9
	Large Cap Equity	15.6	24.3	6.0	2.5	-5.9	30.0	14.5	7.1	16.6	10.9	-28.9	27.2	16.7	0.1	16.3	32.5	5.6	-0.4	11.3	17.1	-4.8	22.0	-20.2	1.7	4.8
	International Equity	4.9	20.9	-3.0	-5.6	-11.4	29.7	12.9	5.3	15.1	7.0	-35.6	20.6	15.5	-2.9	14.6	12.1	4.2	-1.4	8.0	13.7	-8.3	18.6	-22.8	1.1	4.7
	Commodities	1.2	13.2	-7.3	-9.1	-15.5	25.2	11.4	4.7	13.3	7.0	-36.8	19.7	13.1	-4.2	11.5	11.0	3.4	-2.5	7.1	7.8	-9.3	18.4	-23.3	0.6	3.9
	Emerging Markets Equity	-2.5	11.4	-7.8	-9.2	-15.7	23.9	9.1	4.6	10.4	5.8	-37.6	18.9	10.2	-5.5	10.5	9.0	2.8	-3.8	5.7	7.7	-11.0	8.7	-23.6	-0.2	2.7
	Small Cap Growth	-5.1	7.3	-14.0	-12.4	-20.5	11.6	6.9	4.6	9.1	4.4	-38.4	11.5	8.2	-5.7	4.8	0.1	0.0	-4.4	2.6	7.0	-11.2	7.8	-25.8	-0.4	2.1
	Large Cap Value	-6.5	4.8	-22.4	-19.5	-21.7	9.0	6.3	4.2	4.8	-0.2	-38.5	5.9	6.5	-11.7	4.2	-2.0	-1.8	-7.5	1.0	3.5	-12.9	7.7	-26.7	-0.6	0.7
	Small Cap Equity	-25.3	-0.8	-22.4	-20.4	-27.9	4.1	4.3	3.2	4.3	-1.6	-43.1	0.2	5.7	-13.3	0.1	-2.3	-4.5	-14.9	0.5	1.7	-13.8	6.4	-30.6	-2.4	0.6
	Small Cap Value	-27.0	-1.5	-30.6	-21.2	-30.3	1.0	1.4	2.4	2.1	-9.8	-53.2	-16.9	0.1	-18.2	-1.1	-9.5	-17.0	-24.7	0.3	0.9	-14.6	2.1	-35.7	-7.8	-6.7

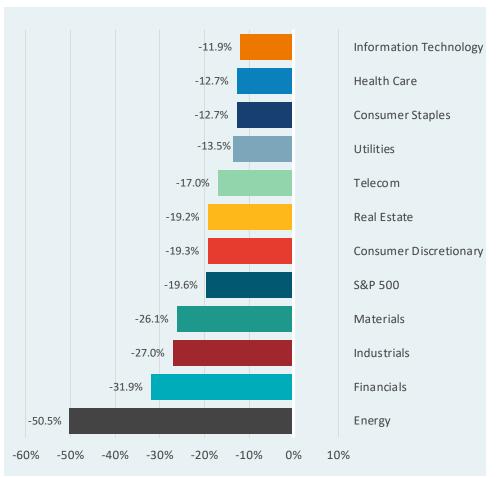


Source Data: Morningstar, Inc., Hedge Fund Research, Inc. (HFR), National Council of Real Estate Investment Fiduciaries (NCREIF). Indices used: Russell 1000, Russell 1000 Value, Russell 1000 Growth, Russell 2000, Russell 2000 Growth, MSCI EAFE, MSCI EM, BBgBarc US Aggregate, T-Bill 90 Day, Bloomberg Commodity, NCREIF Property, HFRI FOF, MSCI ACWI, BBgBarc Global Bond. NCREIF Property Index performance data as of 12/31/19.

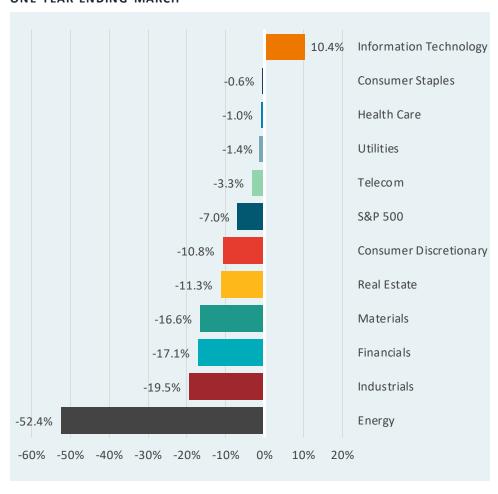


# S&P 500 sector returns

# Q1 2020



# ONE YEAR ENDING MARCH



Source: Morningstar, as of 3/31/20

Source: Morningstar, as of 3/31/20



# Detailed index returns

DOMESTIC EQUITY								FIXED INCOME							
	Month	QTD	YTD	1 Year	3 Year	5 Year	10 Year		Month	QTD	YTD	1 Year	3 Year	5 Year	10 Year
Core Index								Broad Index							
S&P 500	(12.4)	(19.6)	(19.6)	(7.0)	5.1	6.7	10.5	BBgBarc US TIPS	(1.8)	1.7	1.7	6.8	3.5	2.7	3.5
S&P 500 Equal Weighted	(18.0)	(26.7)	(26.7)	(17.6)	(0.4)	2.8	9.2	BBgBarc US Treasury Bills	0.3	0.6	0.6	2.4	1.8	1.2	0.7
DJ Industrial Average	(13.6)	(22.7)	(22.7)	(13.4)	4.4	6.9	10.0	BBgBarc US Agg Bond	(0.6)	3.1	3.1	8.9	4.8	3.4	3.9
Russell Top 200	(11.0)	(17.7)	(17.7)	(4.1)	6.7	7.9	11.0	Duration							
Russell 1000	(13.2)	(20.2)	(20.2)	(8.0)	4.6	6.2	10.4	BBgBarc US Treasury 1-3 Yr	1.3	2.8	2.8	5.4	2.7	1.8	1.4
Russell 2000	(21.7)	(30.6)	(30.6)	(24.0)	(4.6)	(0.2)	6.9	BBgBarc US Treasury Long	6.1	20.9	20.9	32.6	13.4	7.3	9.0
Russell 3000	(13.8)	(20.9)	(20.9)	(9.1)	4.0	5.8	10.1	BBgBarc US Treasury	2.9	8.2	8.2	13.2	5.8	3.6	3.8
Russell Mid Cap	(19.5)	(27.1)	(27.1)	(18.3)	(8.0)	1.8	8.8	Issuer							
Style Index								BBgBarc US MBS	1.1	2.8	2.8	7.0	4.0	2.9	3.3
Russell 1000 Growth	(9.8)	(14.1)	(14.1)	0.9	11.3	10.4	13.0	BBgBarc US Corp. High Yield	(11.5)	(12.7)	(12.7)	(6.9)	0.8	2.8	5.6
Russell 1000 Value	(17.1)	(26.7)	(26.7)	(17.2)	(2.2)	1.9	7.7	BBgBarc US Agency Interm	0.9	2.9	2.9	6.1	3.2	2.3	2.2
Russell 2000 Growth	(19.1)	(25.8)	(25.8)	(18.6)	0.1	1.7	8.9	BBgBarc US Credit	(6.6)	(3.1)	(3.1)	5.1	4.2	3.3	4.7
Russell 2000 Value	(24.7)	(35.7)	(35.7)	(29.6)	(9.5)	(2.4)	4.8								
INTERNATIONAL EQUITY	,							OTHER							
Broad Index								Index							
MSCI ACWI	(13.5)	(21.4)	(21.4)	(11.3)	1.5	2.8	5.9	Bloomberg Commodity	(12.8)	(23.3)	(23.3)	(22.3)	(8.6)	(7.8)	(6.7)
MSCI ACWI ex US	(14.5)	(23.4)	(23.4)	(15.6)	(2.0)	(0.6)	2.1	Wilshire US REIT	(20.0)	(25.6)	(25.6)	(19.4)	(2.5)	5.7	12.7
MSCI EAFE	(13.3)	(22.8)	(22.8)	(14.4)	(1.8)	(0.6)	2.7	CS Leveraged Loans	(12.5)	(13.2)	(13.2)	(9.5)	(0.7)	4.6	5.0
MSCI EM	(15.4)	(23.6)	(23.6)	(17.7)	(1.6)	(0.4)	0.7	Alerian MLP	(48.1)	(58.1)	(58.1)	(61.9)	(29.9)	(21.1)	(4.7)
MSCI EAFE Small Cap	(17.2)	(27.5)	(27.5)	(18.1)	(2.9)	1.0	4.8	Regional Index							
Style Index								JPM EMBI Global Div	(13.8)	(13.4)	(13.4)	(6.8)	0.4	2.8	4.9
MSCI EAFE Growth	(9.2)	(17.5)	(17.5)	(5.8)	3.0	2.5	4.7	JPM GBI-EM Global Div	(11.1)	(15.2)	(15.2)	(6.5)	(0.8)	0.3	0.5
MSCI EAFE Value	(17.7)	(28.2)	(28.2)	(22.8)	(6.7)	(3.8)	0.6	Hedge Funds							
Regional Index								HFRI Composite	(5.9)	(8.3)	(8.3)	(4.0)	0.7	1.3	2.9
MSCI UK	(16.0)	(28.8)	(28.8)	(23.0)	(4.9)	(3.3)	1.6	HFRI FOF Composite	(4.9)	(6.0)	(6.0)	(2.6)	1.0	0.6	2.1
MSCI Japan	(7.1)	(16.8)	(16.8)	(6.7)	1.0	1.8	3.8	Currency (Spot)							
MSCI Euro	(17.2)	(27.0)	(27.0)	(18.3)	(4.4)	(2.3)	1.1	Euro	(0.1)	(2.3)	(2.3)	(2.3)	0.9	0.4	(2.1)
MSCI EM Asia	(11.7)	(18.1)	(18.1)	(12.1)	1.3	1.4	3.5	Pound	(2.9)	(6.4)	(6.4)	(4.8)	(0.3)	(3.5)	(2.0)
MSCI EM Latin American	(34.5)	(45.6)	(45.6)	(40.8)	(13.0)	(5.9)	(6.7)	Yen	(0.1)	0.7	0.7	2.5	1.1	2.1	(1.4)

Source: Morningstar, HFR, as of 3/31/20



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# SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

April 28, 2020 Agenda Item 6.2

**TO:** Board of Retirement

**FROM:** Doris Ng, Investment Analyst

**SUBJECT:** Report on Cash Overlay (Parametric) Annual Review

## Recommendation

Accept the report on the annual review of SamCERA's overlay manager.

# **Background**

Parametric's institutional overlay strategies (formerly The Clifton Group) was hired in May 2013 to provide overlay management services to SamCERA. Parametric initially provided securitization of total fund cash, manager cash equitization, and overlay transition management services. Portfolio rebalancing was added in January 2014 and more recently, currency hedging was added in September 2018.

Parametric Policy Implementation Overlay Services (PIOS) provides increased operational efficiency for fund cash flow management, exposure management during manager transitions, elimination of performance drag due to residual manager cash, and rebalancing during times of meaningful deviation from policy targets. All of Parametric's overlay services are performed out of the Minneapolis (MN) Investment Center.

#### Discussion

On March 5<sup>th</sup>, SamCERA staff held the annual review meeting for the Parametric cash overlay strategy. Dan Wamre, Senior Portfolio Manager, attended from Parametric through conference call.

The meeting lasted approximately 1.5 hours, and consisted of a firm/organizational update, investment process review, and performance review and attribution.

The previously announced retirement of Jack Hansen, CIO of the MN Investment Center, was discussed. Overall overlay program results were in line with long-term expectations. From inception through December 31, 2019, the overlay program produced a synthetic index overlay return of \$32.6 million, or 14 basis points of total fund assets. The currency hedge program produced a synthetic index overlay return of \$3.3 million, or 1.4 basis points of total fund assets, from inception (9/9/2018) through December 31, 2019.

Meeting notes summarizing the findings from the annual review are attached to this memo.

# **Attachment**

Parametric Cash Overlay Annual Review Meeting Notes 2020

Date of meeting: 3/5/20 Location: SamCERA Office

<u>Manager Representative</u>

Dan Wamre, CFA (Senior PM) via phone

**Verus Representative(s)** 

Margaret Jadallah (Consultant) Joseph Abdou (Consultant)

Client Representative(s)
Mike Coultrip (CIO),
Doris Ng (Analyst)

# **Product Description**

Parametric's cash overlay program is an efficient way for SamCERA to maintain its target asset allocation in a systematic fashion through cash securitization at the fund and manager level, transition/reallocation support and asset class rebalancing back to target within defined bands. The cash overlay program is invested synthetically using liquid futures with cash balances reviewed daily. A combination of large and small cap futures implementation is the proxy for private equity. SamCERA's investment guidelines initially allowed only for cash overlay. Rebalancing was added to the SamCERA program in January 2014.

Parametric estimates that their overlay services should add 10-20 basis points to portfolio returns over time using their systematic approach. Since inception through 12/31/19, SamCERA's overlay program has added 14 basis points to portfolio returns since inception, in line with expectations.

# Organization

Parametric Portfolio Associates is a wholly owned subsidiary of Eaton Vance Corp. Parametric is comprised of three investment centers – Seattle, Minneapolis and Westport, CT. The firm's institutional overlay strategies reside within the Minneapolis investment center which was formerly The Clifton Group prior to Parametric's acquisition of the firm in 2012. Eaton Vance, Parametric's parent company, acquired the business assets of Calvert Investments effective January 1, 2017.

Parametric's firm-wide assets under management were \$280 billion in total as of 12/31/19. The firm manages over \$98 billion in overlay strategies representing 225 client relationships managed out of Minneapolis. Over the past year, 28 accounts and \$4.8 billion were gained, while 9 accounts and \$681 million were lost. A subset of Parametric's overlay business is in custom, temporary assignments, and these temporary mandates comprised most of the lost accounts and assets.

# **Investment Team**

The Parametric Overlay team has 33 team members in total. Minneapolis CIO Jack Hansen had been with the firm for more than 30 years. Jack announced his retirement as in November 2018. He stayed on for about a year transitioning his role to Tom Lee who worked with Jack his entire career. Tom Lee is now the CIO in charge of the overlay business. After a short period as an advisor, Jack Hansen is now retired.



Kip Chaffee also retired in 2019. His role as a senior manager in Minneapolis was diminished with the firm's restructuring and consolidation under Tom Lee, and he decided to retire.

# **Investment Strategy**

Parametric's cash overlay services are known internally as Policy Implementation Overlay Services (PIOS). The objectives of PIOS are to: 1) increase day-to-day availability of cash and provide operational efficiency for cash flow management, 2) eliminate performance drag due to unintended cash, 3) enable staff to obtain a daily snapshot of total fund exposures, and 4) maintain asset class exposure during manager changes.

Parametric uses liquid futures in the implementation of PIOS. US equity exposures are maintained using large cap and small cap futures. Non-US equity exposures are replicated using developed and emerging markets futures. Fixed income Treasury futures are used for bond replication so interest rate sensitivities are addressed. Credit exposure is not addressed so there is some tracking error within the fixed income asset class compared to SamCERA exposures. This tracking error detracted during part of 2017 and 2018 but has more recently added value to overlay performance.

Parametric also does currency hedging for SamCERA and hedges half the notional value of developed international equities. The addition of currency hedging started in September 2018 and was fully implemented on 10/1/2019. The purpose of the currency is first and foremost to lower portfolio risk and secondarily to add incremental performance.

# **Performance & Positioning**

Parametric has implemented its overlay strategy within SamCERA's guidelines, reducing cash and maintaining the portfolio target asset allocation within tight tracking error bands. SamCERA experienced three synthetic rebalancing events in 2019 and one so far in 2020. SamCERA's overlay added 35 bps to the portfolio over the past year. Over the long term the portfolio is in line with expectations gaining 14 bps, around 5 from rebalancing and 10 bps from cash equitization.

Currency hedging was fully implemented in 2019 and gained 1.43% for the year ended December 31, 2019.

# Conclusion

Verus continues to have confidence in Parametric's overlay capabilities and Parametric's implementation of SamCERA's program. Alpha and tracking to the fund's strategic asset allocation are in line with expectations.



# SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

April 28, 2020 Agenda Item 6.3

**TO:** Board of Retirement

FROM: Doris Ng, Investment Analyst

**SUBJECT:** Annual review of Northern Trust custodial bank.

# Recommendation

Accept the report on the annual review of Northern Trust.

# **Background**

Northern Trust became SamCERA's custodian bank effective July 1, 2014. Northern Trust provides SamCERA with global custody and securities lending services.

# Discussion

On March 5<sup>th</sup>, SamCERA staff held the annual review meeting in SamCERA's office for Northern Trust. Colleen Brennan (Client Executive), Matt Pfaff (Client Service Manager) and Era Pawlowski (Accounting Consultant) attended in-person, and Shane Crea (Performance Consultant) attended through conference call from Northern Trust.

The meeting lasted approximately 1.5 hours, and consisted of a firm/organizational update, global custody overview, securities lending review, and a service performance review.

Overall, Northern Trust continues to provide consistent and reliable levels of service to staff. There were no major concerns identified during the review. Staff will present the highlights of the annual review to the Board at the meeting.

# SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

April 28, 2020 Agenda Item 6.4

**TO:** Board of Retirement

FROM: Michael Coultrip, Chief Investment Officer Michael R. Coultrip

**SUBJECT:** Approval of Public Real Asset Pool Restructuring

#### Recommendation

Approve the recommendation to add U.S. TIPS to SamCERA's existing State Street Global Advisors (SSgA) public real asset account.

# **Background**

In 2016 the Board approved a new customized liquid real assets strategy managed by SSgA that offers a passive implementation to multiple liquid real assets beta exposure. The mandate, subsequently renamed public real assets, was implemented with equal allocation to commodities, listed natural resources equities, and listed infrastructure equities.

# Discussion

SamCERA's risk parity allocation contained TIPS as part of its inflation allocation. With the removal of the risk parity allocation from SamCERA's policy mix as part of the latest asset liability study, staff and consultant recommend adding a passive allocation of U.S. TIPS to our customized public real assets strategy managed by SSgA.

This will reduce the equity sensitivity of the public real assets portfolio, provide better diversification within the broader inflation hedge program, and provide a more direct protection of potential inflation for the plan.

The attached documents provide more information about this recommendation. John Nicolini from Verus will present this topic to the Board and will be available to address any questions.

# **Attachments**

Verus Recommendation for Public Real Asset Restructuring Verus Performance Summary of Public Real Assets



# Memorandum

**To:** San Mateo County Employees' Retirement Association

From: Verus

**Date:** April 28<sup>th</sup>, 2020

**RE:** Adding TIPS to Liquid Real Assets

# **Executive Summary**

In 2017, SamCERA approved a new long-term asset allocation that will no longer have a dedicated TIPS allocation, further, the subsequent elimination of risk parity strategies further reduced SamCERA's exposure to TIPS. In light of the lack of TIPS exposure, and in an effort to reduce the liquid real asset portfolio's volatility, we are recommending that SamCERA add a U.S. TIPS allocation to the liquid real asset portfolio managed by State Street (SSgA).

# Adding TIPS to the SSgA Liquid Real Assets strategy

We are recommending that SamCERA add an allocation to U.S. TIPS within the SSgA Liquid Real Asset portfolio. As a reminder, the SSgA Liquid Real Asset portfolio is split evenly between three asset classes, Commodities, Global Infrastructure and Global Natural Resources. The new allocation, if approved, will be split evenly across four asset classes managed passively by SSgA.

Here is how the allocation would look if TIPS are added:

Asset Class	Allocation %
S&P Global Infrastructure Index	25%
S&P Global LargeMid Commodity Producers Index	25%
Bloomberg Commodities Index	25%
U.S. TIPS	25%

The addition of TIPS to the portfolio should reduce the portfolios volatility and increase diversification within real assets and the overall SamCERA portfolio. TIPS would also provide a purer inflation hedge relative to infrastructure and natural resources which carry equity market risk and have a less certain inflation hedging capability.

Attached to this memo is a performance summary which compares the current SSgA allocation to the new allocation with U.S. TIPS.

Past performance is no guarantee of future results. This document is provided for informational purposes only and is directed to institutional clients and eligible institutional counterparties only and is not intended for retail investors. Nothing herein constitutes investment, legal, accounting or tax investment vehicle or any trading strategy. This document may include or imply estimates, outlooks, projections and other "forward-looking statements." No assurance can be given that future results described or implied by any forward looking information will be achieved. Investing entails risks, including possible loss of principal. Verus Advisory Inc. and Verus Investors, LLC ("Verus") file a single form ADV under the United States Investment Advisors Act of 1940, as amended. Verus — also known as Verus Advisory™ or Verus Investors™.

# Performance summary - as of March 2020

	SamCERA Liquid Real Assets	SamCERA Liquid Real Assets w TIPS
PERFORMANCE ANALYSIS - (5 Years)		
Alpha %		
Beta		
R-squared %		
Sharpe Ratio	-0.3	-0.3
Treynor Ratio		
Tracking Error %		
Annualized Std Dev %	14.1	10.9
Information Ratio		
Max Drawdown %	-27.1	-20.4
Calmar Ratio	-0.1	-0.1
Excess Ann. Return %		
PERFORMANCE TO DATE		
1 Year	-23.6	-16.5
3 Year	-5.8	-3.4
5 Year	-3.5	-1.8
7 Year	-3.7	-2.3
Common Inception (Sep-11)	-3.3	-1.8
CALENDAR YEAR RETURNS		
2019	15.8	14.1
2018	-10.3	-8.1
2017	13.6	10.9
2016	19.0	15.4
2015	-21.0	-16.3
2014	-4.9	-2.7
2013	0.5	-1.8
2012	5.9	6.4

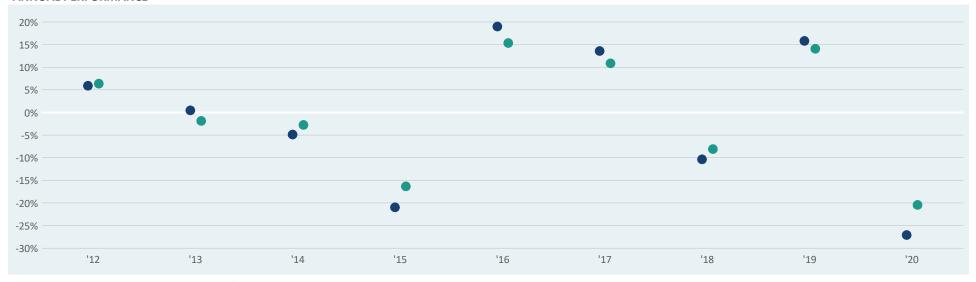


# Calendar year performance

SamCERA Liquid Real Assets

SamCERA Liquid Real Assets w TIPS

#### **ANNUAL PERFORMANCE**



ANNUAL PERFORMANCE AND RANKING	2012	2013	2014	2015	2016	2017	2018	2019	2020
SamCERA Liquid Real Assets	5.9	0.5	-4.9	-21.0	19.0	13.6	-10.3	15.8	-27.1
SamCERA Liquid Real Assets w TIPS	6.4	-1.8	-2.7	-16.3	15.4	10.9	-8.1	14.1	-20.4



# Performance statistics

SamCERA Liquid Real Assets

SamCERA Liquid Real Assets w TIPS

#### **36 MONTH ROLLING RISK**



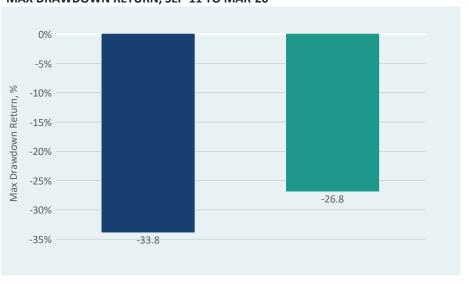
#### **TOTAL 36 MONTH ROLLING PERFORMANCE**



# 36 MONTH ROLLING SHARPE RATIO(G)



# MAX DRAWDOWN RETURN, SEP-11 TO MAR-20



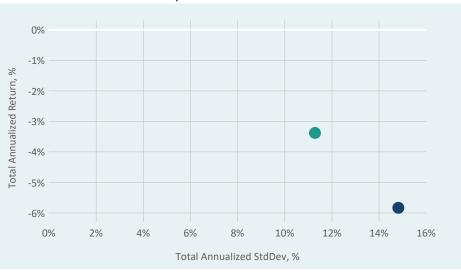


# Risk vs. return

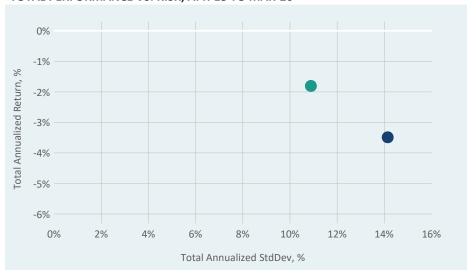
SamCERA Liquid Real Assets

SamCERA Liquid Real Assets w TIPS

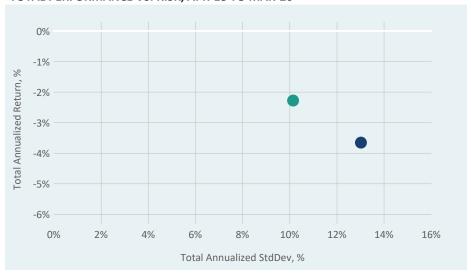
# TOTAL PERFORMANCE VS. RISK, APR-17 TO MAR-20



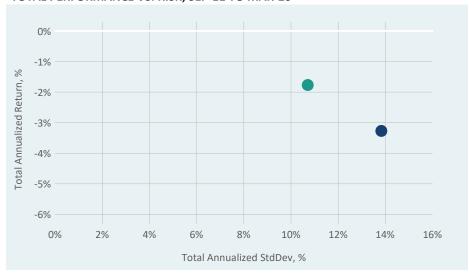
# **TOTAL PERFORMANCE VS. RISK, APR-15 TO MAR-20**



# **TOTAL PERFORMANCE VS. RISK, APR-13 TO MAR-20**



# **TOTAL PERFORMANCE VS. RISK, SEP-11 TO MAR-20**





# SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

April 28, 2020 Agenda Item 6.5

**TO:** Board of Retirement

FROM: Michael Coultrip, Chief Investment Officer Michael R. Coultrip

**SUBJECT:** Approval of Core Fixed Income Manager

#### Recommendation

Approve the recommendation to invest 4% of plan assets (approximately \$180 million) in the NISA core fixed income strategy in a separate account structure.

# **Background**

In September of 2019, the Board approved an updated asset allocation policy, with the largest changes being the removal of risk parity and a resulting increase in the allocation of core fixed income from 14% to 21%. In October the Board approved an implementation plan that adds this core fixed income exposure in multiple stages. The first stage is complete with the approval of the 4% allocation to the DoubleLine Securitized Income strategy in January. In February Verus reviewed with the Board the resulting fixed income structure and characteristics of the core fixed income portfolio, which helped inform the type of core fixed income manager to be considered in the next stage.

## Discussion

Based upon the results from the manager structure analysis, Verus and staff reviewed low-risk, high quality core fixed income managers that exhibit a duration profile in-line with the benchmark, and that has a low correlation and a differentiated strategy from our current core fixed income managers. After reviewing four short-list managers, and after in-depth due diligence calls with three of those, staff and Verus are recommending the NISA Core Bond strategy for SamCERA's core fixed income portfolio. NISA is a risk-controlled strategy with tight tracking error to the benchmark. The strategy utilizes many small active trades to produce attractive risk-adjusted returns over time. Because of these characteristics, the NISA strategy's correlation of excess returns with our other core fixed income managers is extremely low and complements our existing managers in the space.

Margaret Jadallah and Joe Abdou of Verus will review the core fixed income manager search process with the Board.

## **Attachment**

Verus Core Fixed Income Manager Structure

# NISA CORE BOND INVESTMENT RECOMMENDATION

# **April 28, 2020**



1) Product Name	NISA Core Bond
2) Contact Person	Cheryl Hanson Managing Director, Client Services 314-721-1900
3) Manager Benchmark	Bloomberg Barclays Aggregate Index
4) Asset Class	Core Fixed Income
5) Consolidation	Diversifying
6) Role in Portfolio	The core fixed income portfolio is intended to dampen portfolio volatility and protect the portfolio in times of economic duress. The NISA Core Bond strategy is expected to provide tight tracking to the aggregate index, along with diversification to SamCERA's existing core fixed income managers.
7) Ex-Ante Return Target	The target alpha (not excess return, as NISA believes not all excess return is alpha) is 20-40 bps annualized over a full market cycle (3 to 5 years).
8) Ex-Ante Volatility Target	NISA expects the portfolio to typically match the volatility of the benchmark with a relatively tight tracking error of less than 50 bps annualized over a full market cycle.
9) Number of positions	This will be a diversified portfolio of between 500 and 700 positions, depending on market conditions.
10) Firm Ownership Structure	NISA is an SEC-registered independent money management firm with its only office location in St. Louis, MO. It was founded in 1993 by Jess Yawitz and Bill Marshall and is 100% employee owned with 16 employees holding ownership in the company. Jess Yawitz is still active with the firm, while Bill Marshall retired in December of 2018. The firm manages \$380 billion in total assets, with most assets (\$212 billion) in U.S. investment grade fixed income (both core fixed and LDI). NISA has 297 total employees, with 119 investment-related professionals.
11) Key Personnel	NISA utilizes a team-based approach for all their fixed income investment strategies.  The seven-person Investment Committee (IC) oversees the strategic decisions including targets for sector over/underweights and yield curve positioning. It consists of Jess Yawitz, David Eichhorn, Biswajit Bhattacharya, Ken Lester, Joe Murphy,  Anthony Pope, and Dan Scholz.
12) Investment Process Summary	NISA's investment strategy consists of strategic (top-down) and tactical (bottom-up) decisions. The IC meets monthly and sets the strategic parameters including sector selection and yield curve positioning. The Credit Committee further refines the IC's strategic themes and also generally meets monthly. These individuals translate the IC themes into over and under-weights down to the ticker level. Lastly, the Fixed

	Income and Derivatives Portfolio Management Group implements the portfolio and has discretion in individual security selection and trading consistent with the overall risk profile set by the IC and Credit Committee.
13) Strategy Fees	0.15% management fee
14) Annual Turnover	This is an active trading strategy in which micro relative—value trading is utilized to take advantage of the bond OTC market. Turnover is expected to range between 200-250%.
15) List of Investment Instruments Used	The portfolio consists of securities that are contained in the benchmark. Out-of-benchmark securities are allowed, but generally are limited due to the risk-controlled nature of the strategy in relation to the benchmark. No CDS or subprime exposures are used in the strategy.
16) Derivatives Usage	Treasury futures can be used to help manage duration exposure. No other derivatives are used.
17) Leverage	None
18) Liquidity	The portfolio will consist of primarily U.S. dollar-denominated investment grade securities. Most holdings are very liquid. NISA does monitor the exposure of the portfolio to generally less liquid Rule 144a or Regulation S securities, as these can sometimes be a bit less liquid.
19) Performance Expectations	Risk-adjusted performance is key. NISA is not a systematically long-beta manager or interest rate timer. They manage a broadly diversified portfolio in a risk-controlled manner, targeting many small sources of alpha that compound over time.
20) Risk management process	As mentioned previously, NISA utilizes a risk-controlled framework where all portfolio decisions are viewed in active risk terms relative to the benchmark. In addition, the core fixed portfolio is managed to be duration neutral to the benchmark and is diversified with respect to individual credit issuers.
	Portfolio risk is overseen by the Fixed Income and Derivatives Portfolio Management Group given the risk-controlled nature of portfolio construction. That said, there is an independent risk oversight group that is separate from portfolio management. This group meets monthly with the fixed income portfolio management group to review risk reporting for fixed income portfolios.
21) Strategy Assets	NISA manages just over \$36 billion in core fixed income mandates.
22) Clients in Strategy	NISA only manages customizable separate accounts (no commingled funds) for institutional clients.
23) Perceived Risks	Universe Ranking in Strong Credit Beta Markets  This strategy is risk-controlled with tight tracking error to the benchmark. As such, manager universe rankings should be de-emphasized when reviewing this strategy. Of more importance is the risk-adjusted return of the strategy in relation to the benchmark.
24) Sizing	4% of total plan assets or approximately \$180 million
25) Due Diligence Summary	Due diligence was conducted via a phone call on April 9, 2020. David Eichorn, Joe Murphy, Greg Yess, and Cheryl Hanson participated from NISA.
26) Implementation Vehicle	Separate Account

# Recommendation

Staff and Consultant recommend an initial investment of 4% of plan assets (or approximately \$180 million) in the NISA Core Bond strategy for benefit of the San Mateo County Employees' Retirement Association portfolio to be placed in the Diversifying risk category (Fixed Income asset class composite) within the Core Fixed Income portfolio.



# Memorandum

To: SamCERA
From: Verus

**Date:** April 28, 2020

**RE:** Core bond manager search – Summary of process and recommendation

# **Executive Summary**

SamCERA's core bond search resulted from a change in asset allocation made as part of the Plan's asset-liability study completed last year. SamCERA added 4% (approximately \$180 million) to core fixed income in its Diversifying portion of the portfolio in order to further dampen portfolio volatility. The core bond screening criteria sought out a benchmark relative (tight tracking error) manager that would complement SamCERA's existing core bond manager FIAM. After completing our due diligence process, Verus and Staff are recommending NISA's Core Broad Market Fixed Income product for this assignment.

A summary of the search process follows with a quantitative comparison attached.

#### **Search Process**

Verus screened the core bond manager universe on the following parameters and attributes:

- Lower tracking error, benchmark relative investment grade core bond strategies
- Competitive and consistent historical performance
- Firm and product AUM of institutional size and firm infrastructure of institutional caliber
- Low to moderate excess correlation with FIAM, SamCERA's existing core bond manager

Verus and SamCERA Staff discussed the merits of approximately 10 core bond managers that met these criteria and excluded a handful of them for qualitative reasons and relative rankings. Four core bond managers that met all criteria and were deemed most compelling by SamCERA Staff and Verus were sent detailed RFIs. These managers were:

- Baird Advisors Core Bond
- Income Research & Management IR+M Aggregate
- NISA Investment Advisors Core Broad Market Fixed Income
- PGIM Fixed Income PGIM Core Fixed Income

After reviewing the strengths and weaknesses of the written responses, SamCERA Staff and Verus ranked the managers independently. PGIM was ranked fourth on a relative basis by both parties and eliminated from consideration for this reason. Verus and Staff then conducted indepth conference calls with the three remaining managers prior to developing a finalist recommendation. We spoke with senior decision-makers from each core bond manager and thoroughly reviewed the organization, investment philosophy and approach, and portfolio positioning and performance. Following this due diligence, NISA was deemed the best fit for SamCERA's core bond mandate.

# **Manager and Strategy Descriptions**

#### **BAIRD ADVISORS (BAIRD)**

Baird Advisors is the institutional fixed income management group of Robert W. Baird & Co. (R.W. Baird), formed in February 2000 by the entire fixed income portfolio management team at Firstar Investment Research and Management Company (FIRMCO). R.W. Baird is a privately held firm headquartered in Milwaukee, WI. The firm was originally founded in 1919 as the investment arm of the First Wisconsin National Bank. In 1934, the firm became an independent entity. Northwestern Mutual purchased 80% of R.W. Baird in 1982. Recognizing the importance employee ownership, Northwestern Mutual worked with the firm to increase the ownership interest of Baird employees. In May 2004, the employees of R.W. Baird regained controlling interest in the firm. 95% of stock is owned by employees, and 5% is owned by Northwestern.

As of 3/31/20, Baird Advisors managed \$88.4 billion under management with 40% of AUM in the Core Fixed Income product. Baird's fixed income team is led by a very stable and experienced team of investors. The original team that created the strategy still manages the portfolio today with some investment professionals having worked together for over 30 years. Mary Ellen Stanek, Gary Elfe and Charles Groeschell have led the team since inception of the track record; the team has suffered virtually no senior level turnover. Baird has introduced formal transition plans for senior team members, well in advance of retirements.

Baird's fixed income philosophy is predicated on the belief that the bond capital market is efficient in discounting risk and return over time. The bond market benchmark accurately reflects this relationship between risk and return across the duration curve. Baird believes that interest rates are extremely difficult to consistently forecast over time. Due to this view, the team employs a duration-neutral, risk-controlled approach in managing portfolios where they set the duration of the portfolio approximately equal to the Bloomberg Barclays US Aggregate. The team aims to add incremental value through security selection, yield curve positioning, sector allocation and competitive execution of trades. Ultimately, Baird employs a holistic approach to portfolio management that integrates the sector focus and expertise of various team members. Working within the strategy's guidelines and objectives, long-term decisions are made to overweight and underweight sectors and sub-sectors on a relative value basis. Sector positions are analyzed on a contribution-to-duration basis and evaluated for the return potential of each sector. The strategy will generally overweight corporate financials and the securitized sectors (ex., ABS, MBS, CMBS, RMBS) from a contribution-to-duration basis versus the index.

The team uses Treasuries and Agencies to achieve a large portion of the target duration of a portfolio. Credit risk in general is limited to shorter maturity, investment grade issues that are deemed to have a low probability of default. The team will focus on collateral and structure in securitized products with an emphasis on well-structured, stable cash flows that are less negatively convex than mortgage pass-throughs. Baird favors agency over non-agency exposure. The portfolio is comprised all cash bonds with no use of derivatives or leverage.

While Baird has a large percentage of assets under management in funds versus separate accounts, the firm does manage large separate accounts for local public plans ACERA (a Verus client) and SFERS. Baird's fee quote of 30 bps was higher than for the other two managers, but expected and historical alpha was commensurate. Verus and Staff's overall assessment of Baird was very positive, but the strategy's correlation to FIAM was higher than for our recommended manager NISA.



## INCOME RESEARCH & MANAGEMENT (IR+M)

Based in Boston, Income Research and Management (IR+M) was founded by John and Jack Sommers to specialize in the US dollar-denominated fixed income market. The firm began managing assets in 1987. IR+M is focused exclusively on managing domestic fixed income strategies for institutional and private clients. IR+M is a privately held company with 58 employee shareholders and roughly 15 key investment professionals. The firm is committed to remaining 100% employee owned and is in the process of redistributing ownership to the next generation of key investment professionals as John and Jack Sommers incrementally exit the business. The Sommers family has less than 50% of ownership now but maintains voting control.

IR+M managed \$75 billion as of 3/31/20 of which 25% is in broad core bond mandates. IR+M takes a team approach to managing portfolios. Investment team members have sector expertise which is utilized across mandates. Portfolio managers, directors, specialists, analysts, and traders work within their respective specialties which are broadly delineated as the credit, securitized, government, and municipal sectors; portfolio strategy; portfolio risk; investment risk; and product management. IR+M's Target Team, led by Bill O'Malley and Jim Gubitosi, is responsible for overall risk management at the strategy level. Comprised of co-CIOs O'Malley and Gubitosi, senior portfolio managers, and the director of investment risk, the team makes decisions on strategic direction, sector targets, and overall risk positioning. After relative value decisions are made, sector and credit teams, comprised of both research analysts and portfolio managers, identify the best potential return opportunities in their assigned areas.

IR+M's fixed income philosophy is predicated on the belief that an actively managed, valueoriented, bottom-up approach can produce superior long-term results. Portfolios are durationneutral and key rate duration (yield curve) neutral with an emphasis placed upon identifying securities that offer an attractive yield advantage through credit and structure. The team is benchmark-aware, but broadly agnostic, preferring to seek out the highest risk-adjusted returns across various investment grade credit sectors. Within the available opportunity set of fixed income securities – government, credit and structured securities – the team seeks to find relative value within each sector by concentrating on those securities that offer higher yields due to structural differences such as optionality or issue size. These securities also may be smaller, "off-the-run" issues which tend to be passed over due to their more limited liquidity and smaller offer size. The team focuses on securitized issues that are senior in the capital structure with favorable convexity, seasoned collateral, and attractive structure and with favorable underlying credit and underwriting standards. As part of yield curve positioning, IR+M may buy older "off the run" issues of similar maturity with a yield advantage and similar credit risk. Treasuries tend to be used to fit in the gaps to achieve duration and key rate duration neutrality. Their investment approach integrates sector-specific ESG risk factors as a mandatory component of their credit research which is somewhat unique. The portfolio is comprised of cash bonds and does not use derivatives.

Portfolios are duration neutral and yield curve neutral to the benchmark; yield curve neutrality is unique among core bond managers. IR+M's investments in smaller market sub-sectors and its yield advantage have added value and are core competencies of the firm. Fees starting at 22.5 bps are reasonable versus expected and historical returns. While Verus and SamCERA Staff believe IR+M to be competitive, their overweight to securitized product, given the Plan's recent funding of DoubleLine, and relative illiquidity versus the short-listed managers led us to recommend NISA instead.



#### **NISA INVESTMENT ADVISORS (NISA)**

NISA registered with the SEC in November 1993 and began managing assets in April 1994. Prior to 1994, several of the firm's key employees were with National Investment Services of America, Inc. ("National"), which reorganized in 1994 to facilitate a change in ownership among employees. National split itself into three separately owned entities in 1994, one of which was NISA, focusing predominantly on fixed income asset management. NISA Investment Advisors, LLC is a wholly owned subsidiary of NISA, LLC which is 100% employee-owned. The firm managed \$380 billion in total assets at 3/31/20, \$213 billion of which was in investment grade fixed income across the maturity spectrum. From this, \$17.5 billion was in Core Broad Market Fixed Income. Notional derivative overlay strategies are another core competency for the firm. Consistent themes across the firm's strategies include risk-controlled asset management, customized, separate accounts, frequent client interaction, and a team-oriented approach.

Effective 1/1/19, the firm's founders Jess Yawitz and Bill Marshall transferred their ownership interests to NISA's existing senior management team in exchange for a non-voting preferred stake in the firm. Direct LLC ownership among NISA's senior leadership was expanded at that time. Succession to the next generation was further augmented using NISA's Phantom Ownership Plan. NISA expects that its distribution of participation interests in the plan will continue to broaden. NISA has a "promote from within" culture, and many employees start out in the firm's internship program.

NISA's investment philosophy is consistent with the team's belief that markets tend to be efficient, but from time to time offer opportunities to capitalize on moderate inefficiencies for higher probability gains. NISA seeks to add small increments of value as they exploit these opportunities. Additionally, the team believes that a risk-controlled, active approach is consistent with this theory. Extensions of this philosophy include a duration-neutral philosophy, a bottom up approach, broad diversification, and active trading among mispriced, liquid securities. The investment strategy is comprised of strategic (top-down) and tactical (bottom-up) decisions. The amount of the portfolio risk budget devoted to one aspect versus the other will change as market conditions warrant. Over a typical market cycle, the bottom-up is expected to contribute to 70% of value-added while top-down is roughly 30%.

All portfolios are managed with a team-approach. NISA's Investment Committee (Jess Yawitz, David Eichhorn, Biswajit Bhattacharya, Ken Lester, Joe Murphy, Anthony Pope, and Dan Scholz) meets monthly and develops strategic themes based on market and economic research including the analysis of monetary policy, expected economic and corporate profit growth, new issue activity, inflationary pressures, Treasury issuance and other macroeconomic factors. At these meetings, targets for sector overweights/underweights are developed and a yield curve strategy is determined. The results of past investment decisions are discussed during Investment Committee meetings and changes are made as warranted. NISA's Credit Committee further refines the strategic themes and sector targets into over/underweights that are analyzed down to the ticker/CUSIP level. Issuer level due diligence requires a fundamental understanding of the issuer and industries they operate in, financial and earnings analysis, and dialogue with management. Securitized holdings must offer relative value and have very high credit quality. Agency MBS analysis includes coupon and issuer selection and drilling down into specified cash pools. NISA's analysis is intended to verify that a security is identified as "cheap" relative to



comparable investments and to measure the risks it brings to a portfolio.

NISA will look for opportunities to trade very similar bonds for small gains at little or no incremental risk. As active traders, they are in constant communication with the brokerage community and analyzing real-time data. NISA uses its risk management tools to monitor each portfolio's exposure relative to the benchmark. Each source of risk is evaluated net of the benchmark to determine active risks and these risks are compared with the expected excess performance associated with the positions. NISA will only implement positions which meet the active risk/reward threshold (either on an individual basis, or when viewed in the context of other active positions).

Performance will tend to be closely matched to the Aggregate benchmark, with the goal of having low tracking error and moderate excess return. They keep portfolios duration-neutral to their respective benchmark(s) (+/- 0.25 years). Low tracking error is a hallmark of the strategy and as such, NISA's fixed income universe is predominately comprised of securities included in the benchmark. This tends to result in high information ratios versus peers. Betas tend to be around 1.0 to the benchmark over time. However, NISA's excess performance tends to exhibit low correlation with peers and lower correlation with macro factors (e.g., corporate spread movements). NISA's fee quote of 15 bps was the lowest of SamCERA's finalist managers and is commensurate with its historical returns over the past decade. (It is worth noting that historical returns have, at times, exceeded these levels.)

#### Recommendation

While all short-listed core bond managers that we spoke with were competitive and appropriate, Verus and SamCERA Staff believe that NISA is the best fit for the Plan's core bond mandate. The strategy is benchmark aware and offers a low tracking error, high information ratio approach to core bond management which is most complementary to FIAM. We recommend that NISA receive the 4% allocation (approximately \$180 million) core bond mandate.

Past performance is no guarantee of future results. This document is provided for informational purposes only and is directed to institutional clients and eligible institutional counterparties only and is not intended for retail investors. Nothing herein constitutes investment, legal, accounting or tax investment vehicle or any trading strategy. This document may include or imply estimates, outlooks, projections and other "forward-looking statements." No assurance can be given that future results described or implied by any forward looking information will be achieved. Investing entails risks, including possible loss of principal.

Verus − also known as Verus Advisory™.



# PERSPECTIVES THAT DRIVE ENTERPRISE SUCCESS



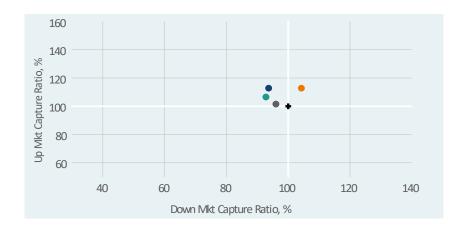
April 2020 Core Fixed Income Search SamCERA

# I. Manager overview



# Style and portfolio comparison

■ Baird Advisors
■ IR+M
■ NSA
■ FIAM
★ Barclays US Aggregate Index





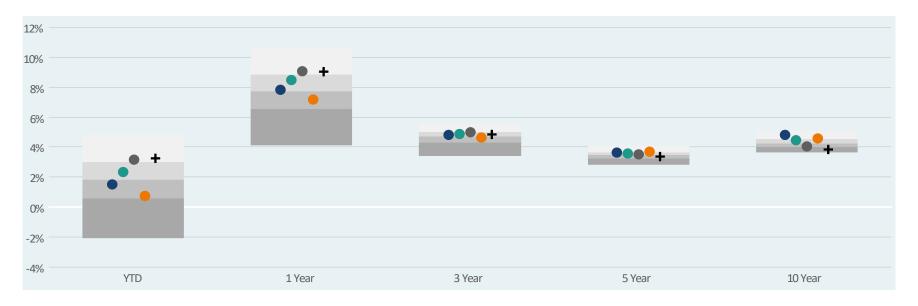
# **Excess Correlations**

	Baird	FIAM BMD	IR+M	NISA
Baird	1.00	0.70	0.66	0.08
FIAM BMD	0.70	1.00	0.57	-0.03
Income Research & Management	0.66	0.57	1.00	0.06
NISA	0.08	-0.03	0.06	1.00



# Performance comparison - as of March 2020

■ Baird Advisors
■ IR+M
■ NSA
■ FIAM
★ Bardays US Aggregate Index



ESS ANNUALIZED RETURN TO DATE, %	YTD	1 Year	3 Year	5 Year	10 Year
Baird Advisors	-1.7	-1.2	0.0	0.3	1.0
IR+M	-0.9	-0.5	0.1	0.2	0.6
NISA	-0.1	0.1	0.2	0.2	0.2
FIAM	-2.5	-1.8	-0.2	0.4	0.7



# Calendar year performance

■ Baird Advisors
■ IR+M
■ NSA
■ FIAM
★ Bardays US Aggregate Index



NUAL PERFORMANCE AND RANKING	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Baird Advisors	8.1	8.2	-1.0	7.2	0.9	3.8	4.5	0.0	9.8	1.6
Rank	30	10	25	11	48	29	22	51	24	59
IR+M	7.3	7.4	-1.3	7.1	0.6	3.6	4.0	0.1	9.3	2.4
Rank	68	19	44	13	71	39	56	44	48	38
NISA	8.2	4.4	-1.9	6.1	0.9	2.9	3.9	0.1	8.9	3.2
Rank	28	90	<i>7</i> 5	50	47	71	60	47	72	22
FIAM	8.3	6.4	-1.2	6.6	-0.1	5.2	4.6	-0.1	10.4	0.8
Rank	27	41	38	26	93	7	18	<i>65</i>	9	72
Barclays US Aggregate Index	7.9	4.3	-2.2	6.1	0.6	2.6	3.5	0.0	8.7	3.3
Rank	46	92	88	53	71	84	84	58	77	21



# Performance summary - as of March 2020

	Baird Advisors	IR+M	NISA	FIAM	Bardays US Aggregate Index
PERFORMANCE ANALYSIS - (5 Years)					12, 20, 20, 20, 20, 20, 20, 20, 20, 20, 2
Alpha %	0.3	0.3	0.2	0.2	0.0
Beta	1.0	1.0	1.0	1.1	1.0
R-squared %	93.6	96.0	99.8	82.4	100.0
Sharpe Ratio	0.8	0.8	0.8	0.7	0.7
Treynor Ratio	0.0	0.0	0.0	0.0	0.0
Tracking Error %	0.8	0.6	0.1	1.5	0.0
Annualized Std Dev %	3.2	3.1	3.1	3.6	3.1
Information Ratio	0.4	0.4	1.6	0.2	
Max Drawdown %	-3.0	-2.7	-3.2	-3.1	-3.4
Calmar Ratio	1.2	1.3	1.1	1.2	1.0
Excess Ann. Return %	0.3	0.2	0.2	0.4	0.0
PERFORMANCE TO DATE					
1 Year	7.9	8.5	9.1	7.2	9.0
3 Year	4.9	4.9	5.0	4.7	4.8
5 Year	3.7	3.6	3.6	3.7	3.4
7 Year	3.7	3.6	3.4	3.6	3.2
10 Year	4.9	4.5	4.1	4.6	3.9
Common Inception (Oct-00)	5.7	5.6	5.2	5.6	5.0
CALENDAR YEAR RETURNS					
2019	9.8	9.3	8.9	10.4	8.7
2018	0.0	0.1	0.1	-0.1	0.0
2017	4.5	4.0	3.9	4.6	3.5
2016	3.8	3.6	2.9	5.2	2.6
2015	0.9	0.6	0.9	-0.1	0.6
2014	7.2	7.1	6.1	6.6	6.1
2013	-1.0	-1.3	-1.9	-1.2	-2.2
2012	8.2	7.4	4.4	6.4	4.3
2011	8.1	7.3	8.2	8.3	7.9
2010	8.7	7.2	6.9	8.5	6.6



# II. Strategy detail



#### Strategy overview - Baird Advisors









# Strategy overview - IR+M



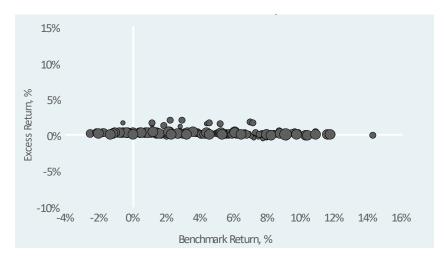






# Strategy overview - NISA



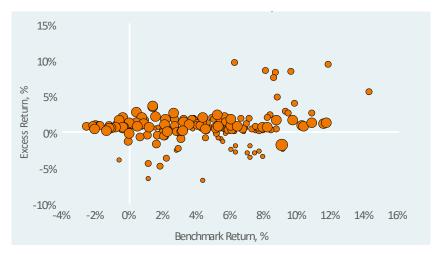






# Strategy overview - FIAM







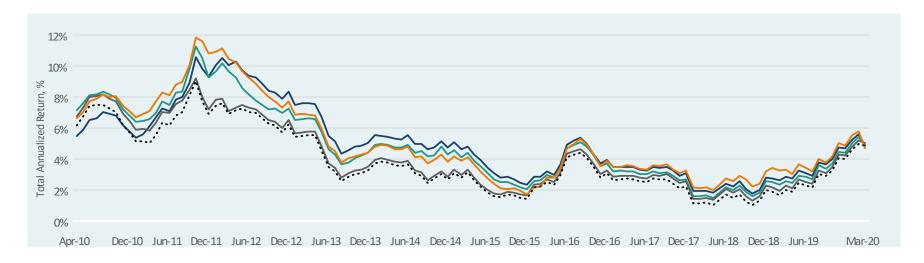


# III. Appendix



#### Rolling performance





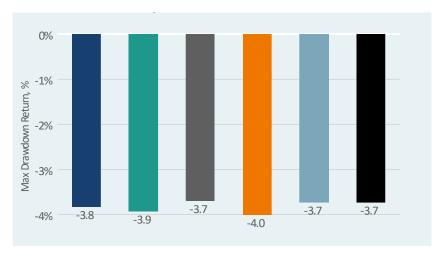




#### Performance statistics













#### Performance statistics













#### Risk vs. return

Baird Advisors

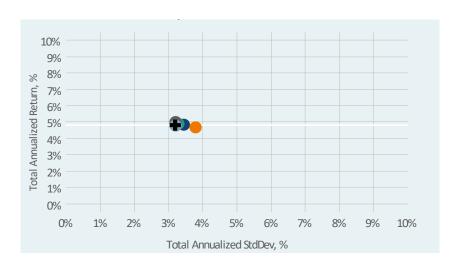
■IR+M

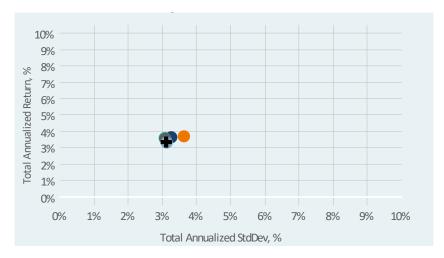
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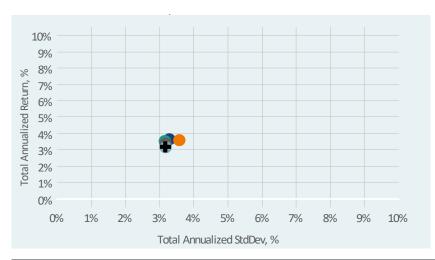
FIAM

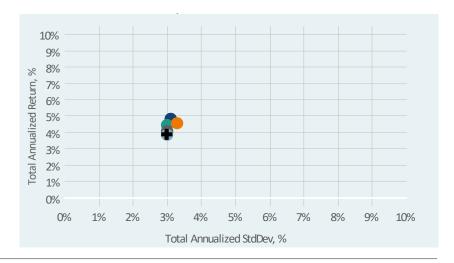
Bardays US Aggregate Index

+ Bardays US Aggregate Index





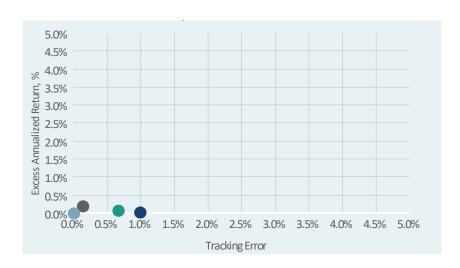


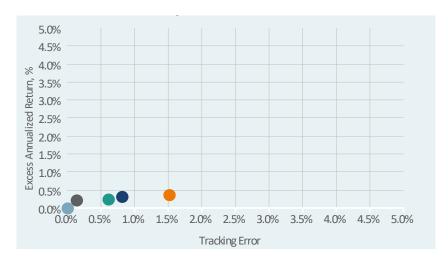


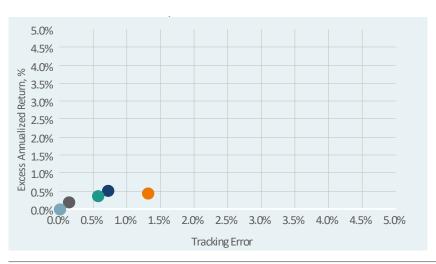


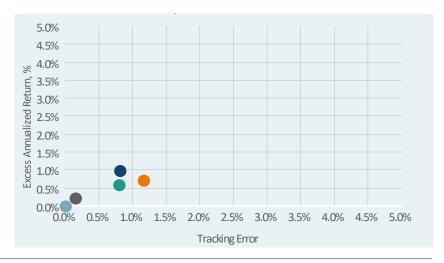
#### Performance efficiency

■ Baird Advisors ■ IR+M ■ NSA ■ FIAM ■ Bardays US Aggregate Index + Bardays US Aggregate Index







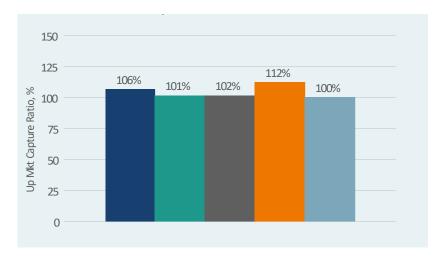




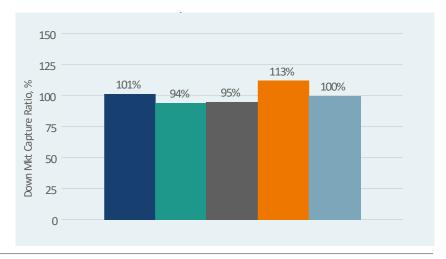
#### Up & down market analysis

■ Baird Advisors
■ IR+M
■ NISA
■ FIAM
■ Bardays US Aggregate Index
+ Bardays US Aggregate Index











# IV. Glossary of terms



#### Glossary

Alpha (a): The excess return of a portfolio after adjusting for market risk, usually attributable to the selection skill of the portfolio manager. Alpha = Excess Return – (Beta x Excess Market Return).

Annualized Return: Converts the Total Return to an annual basis for comparison purposes. Periods shorter than one year are not annualized.

**Benchmark:** Investment index used as a standard by which to measure the relative performance of an overall portfolio or an individual money manager. Appropriate benchmarks are selected based on their similarity to a portfolio or to the style of the individual money manager being measured.

**Benchmark R-squared:** Measures how well the Benchmark return series fits the manager's return series. The higher the Benchmark R-squared, the more appropriate the benchmark is for the manager.

**Beta (b):** A measure of systematic, or market risk; the part of risk in a portfolio or security that is attributable to general market movements. Beta is calculated by dividing the covariance of a security by the variance of the market.

**Book-to-Market:** The ratio of book value per share to market price per share. Growth managers typically have low book-to-market ratios while value managers typically have high book-to-market ratios.

Calmar Ratio - The Calmar Ratio is a risk/return ratio that calculates return on a downside risk adjusted basis. Similar to other efficiency ratios it balances return in the numerator per unit risk in the denominator. In this case risk is characterized by the Maximum Drawdown.

Capture Ratio: A statistical measure of an investment manager's overall performance in up or down markets. The capture ratio is used to evaluate how well an investment manager performed relative to an index during periods when that index has risen/fallen. The capture ratio is calculated by dividing the manager's returns by the returns of the index during the up/down market, and multiplying that factor by 100.

**Correlation Coefficient (r):** A measure of the relative movement of returns of one security or asset class relative to another over time. A correlation of 1 means the returns of two securities move in lock step, a correlation of –1 means the returns of two securities move in the exact opposite direction over time. Correlation is used as a measure to help maximize the benefits of diversification when constructing an investment portfolio.

**Hurst Exponent:** quantifies the relative tendency of a time series either to regress the mean. A value H in the range 0.5 < H < 1 indicates a time series with long-term positive autocorrelation, meaning a high value in the series will probably be followed by another high value H and low values in adjacent pairs, meaning that a single high value will probably be followed by a low value. A value of H=0.5 can indicate a completely uncorrelated series.

**Excess Correlation:** Correlation of the excess returns (above the benchmark).

**GARP:** Growth-At-A-Reasonable-Price. Equity strategy that combines tenets of both growth and value investing, looking for companies with above average earnings growth but excluding those with high valuations.

Information Ratio: A measure of a manager's ability to earn excess return without incurring additional risk. Information ratio is calculated as: alpha divided by tracking error.



#### Glossary

Kurtosis (excess returns)- Kurtosis describes whether the series distribution is peaked or flat and how thick the tails are as compared to a normal distribution. Positive kurtosis indicates a relatively peaked distribution near the mean and tends to decline rapidly and have fat tails. Negative kurtosis indicates a relatively flat distribution near the mean.

Long Term Reversal Factor: Risk premium associated with buying past losers and selling past winners (five year time horizon).

Low Volatility: Risk premium generated by picking low volatility stocks, measured by the MSCI USA Minimum Volatility Index.

Momentum Factor: Risk premium associated with buying past winners and selling past losers.

**Portfolio Turnover:** The percentage of a portfolio that is sold and replaced (turned over) during a given time period. Low portfolio turnover is indicative of a buy and hold strategy while high portfolio turnover implies a more active form of management.

**Predicted Style R-squared:** Measures how well the manager's predicted style fits the manager's return series. Adding many unnecessary indices will not improve the Predicted Style R-Squared. The methodology essentially predicts the manager's style at each point in time without the data at that point with the rationale being that if the style estimates obtained so far are good, then they can be used to predict the style at the estimation point.

**Price-to-Earnings Ratio:** Also called the earnings multiplier, it is calculated by dividing the price of a company's stock into earnings per share. Growth managers typically hold stocks with high price-to-earnings ratios whereas value managers hold stocks with low price-to-earnings ratios.

**Quality:** The quality factors measured the manager's exposure to high quality stocks versus low quality stocks as defied by S&P. The factor is constructed by combining a long position in the S&P 500 High Quality index and short position S&P 500 Low Quality index.

Regression Based Asset Loadings: Represents the exposure period of an investment product (called a Manager, Fund, or Index in Stylus) to various explanatory variables. It is also referred to as Style Indices or Asset Classes. These Indices can be interpreted as the Manager Betas or risk factors at a given point in time.

Risk Premium: An expected return in excess of the risk-free rate. The premium provides compensation for the assumption of risk.

Risk-Free Rate: The rate of interest that one can earn on an investment with no default risk. It is generally assumed to be the interest rate on a 91 day T-Bill.

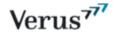
**R-Squared:** Also called the coefficient of determination, it measures the amount of variation in one variable explained by variations in another. In the case of investments, the term is used to explain the amount of variation in a security or portfolio explained by movements in the market or the portfolio's benchmark.

Selection return: The difference between the Manager and the Manager's Style Return.

Sharpe Ratio: A measure of portfolio efficiency. The Sharpe Ratio indicates excess portfolio return for each unit of risk associated with achieving the excess return. The higher the Sharpe Ratio, the more efficient the portfolio. Sharpe ratio is calculated as: Portfolio Excess Return / Portfolio Standard Deviation.

**Short Term Reversal Factor:** Risk premium associated with buying past losers and selling past winners (two month time horizon).

Significance Level (Excess Returns) - The Significance Level of a test is the probability that the test statistic will reject the null hypothesis when the hypothesis is true. Significance is a property of



#### Glossary

**Size Factor:** Risk premium associated with buying small companies.

Skewness (Excess Returns)- Skewness describes the degree of asymmetry of a distribution around its mean. A distribution is said to be symmetric if has the same shape to both the left and right of the mean. A perfectly symmetrical distribution has a Skewness of 0. A positively skewed distribution has larger gains than losses, while a negatively skewed distribution has a longer tail of losses.

**Standard Deviation (s):** A measure of volatility, or risk, inherent in a security or portfolio. The standard deviation of a series is a measure of the extent to which observations in the series differ from the arithmetic mean of the series. For example, if a security has an average annual rate of return of 10% and a standard deviation of 5%, then two-thirds of the time, one would expect to receive an annual rate of return between 5% and 15%.

Style Analysis: A return based analysis designed to identify combinations of passive investments to closely replicate the performance of funds.

**Style Map:** A specialized form or scatter plot chart typically used to show where a Manager lies in relation to a set of style indices on a two-dimensional plane. This is simply a way of viewing the asset loadings in a different context. The coordinates are calculated by rescaling the asset loadings to range from -1 to 1 on each axis and are dependent on the Style Indices comprising the Map.

Style Returns: The sum of the Return of each Style Asset multiplied by its weight for the time period.

Style R-squared: Measures how well the estimated Manager's style return series fits the manager's return series. The higher the Style R-squared, the better the fit between the manager's style and return series.

**Total Return:** Total Return geometrically compounds the Returns in the series from one period to the next.

Tracking Error/Excess Standard Deviation: The standard deviation of the difference between the rate of return of a portfolio and its benchmark.

Treynor Ratio - The Treynor Ratio is defined as the ratio of the manager's excess geometrically annualized return over the portfolio Beta. Excess returns are computed versus the cash index.

**Universe:** Also called a peer group, a universe is a large number of portfolios of a similar style. These portfolios can be divided into deciles or quartiles and then used for performance measurement and comparative purposes. Portfolios are ranked within the universe, which tells the investor how well a manager has done relative to his or her peers.

Value: Refers to the style of an equity manager. A value manager seeks to create returns by purchasing stocks selling at a discount to their true or intrinsic value. Typical portfolio characteristics of this strategy include a low price-to-earnings ratio, high book-to-market ratio, and high dividend yield.

Valuation Factor: Risk premium associated with buying companies trading at a low price/book multiple.

VIX: VIX is a trademark ticker symbol for the Chicago Board Options Exchange Market Volatility Index, a popular measure of the implied volatility of S&P 500 index options. Often referred to as the fear index or the fear gauge, it represents one measure of the market's expectation of stock market volatility over the next 30 day period.



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#### SAN MATEO COUNTY EMPLOYEES' RETIREMENT ASSOCIATION Board of Retirement

April 28, 2020 Agenda Item 6.6

**TO:** Board of Retirement

FROM: Michael Coultrip, Chief Investment Officer Michael R. Coultrip

**SUBJECT:** Approval of International Equity Manager Structure

#### Recommendation

Approve the proposed International Equity manager structure.

#### **Background**

In 2013, the Board approved changes to the international equity manager structure, including converting Baillie Gifford to an ACWI ex-US mandate, adding EAFE Index passive exposure with BlackRock, and decreasing Mondrian's target allocation to lower its manager-specific concentration risk to the portfolio.

In 2017, the Board approved additional changes to the international equity manager structure that included simplifying the manager structure by removal of the dedicated international equity small-cap manager, which reduced the number of managers from five down to four.

#### Discussion

With an eye towards "backfilling simplicity" as we add complexity into other parts of the plan, staff is recommending the following changes to the current international manager structure:

- 1) Removal of our dedicated emerging markets allocation.
- 2) Change our current passive MSCI EAFE mandate to one that includes both developed and emerging markets exposure (MSCI ACWI ex-US IMI).
- 3) Reposition the proceeds from the dedicated emerging markets allocation so that the allocation across Baillie Gifford, Mondrian, and Blackrock ACWI ex-US IMI are similar.

These changes will further reduce the number of managers from four to three, while better aligning the portfolio to the international equity policy benchmark, which is the MSCI ACWI ex-US IMI index.

The tables on the following page show the current international equity manager structure and the proposed manager structure.

In addition, the attached slides show effective exposures for both the current and proposed international equity manager structures. The two primary take-aways from this analysis are: 1) that the proposed structure better aligns the developed/emerging markets exposure

to that of the policy benchmark, and 2) that the emerging market equity exposure will change from 100% active to 33% passive and 67% active.

<b>Current International Man</b>				
	Investment		% of	
Strategy Name	Approach	Allocation	Intl Equity	Mgr Fee (bps)
Baillie Gifford ACWI ex-US	Active	5%	28%	0.46
Blackrock EAFE	Passive	5%	28%	0.03
Mondrian ACWI ex-US	Active	5%	28%	0.39
Parametric EM	Active	3%	17%	0.30
Total:		18%	100%	0.29

Proposed International M	anager Stru	cture			
	Investment		% of		
Strategy Name	Approach	Allocation	Intl Equity	Mgr Fee (bp	s)
Baillie Gifford ACWI ex-US	Active	6%	33%	0.45	
Blackrock ACWI ex-US	Passive	6%	33%	0.045	
Mondrian ACWI ex-US	Active	6%	33%	0.38	
Total:		18%	100%	0.29	

#### Attachment

International Equity Manager Structure Analysis



# **International Equity Manager Structure Analysis**

**Effective Exposure** 

Mike Coultrip April 28, 2020

### Current International Equity Manager Structure

<b>Current International Equi</b>	ty Manager	Effective Ex	posures					
	Investment	Developed	Emerging	Developed	Emerging	Developed	Emerging	
Strategy Name	Approach	Growth	Growth	Core	Core	Value	Value	
Baillie Gifford ACWI ex-US	Active	75%	25%					
Blackrock EAFE	Passive			100%				
Mondrian ACWI ex-US	Active					75%	25%	
Parametric EM	Active				100%			
Current Effective Internati	onal Equity	Allocation						
	Investment		Developed	Developed	Developed	Emerging	Emerging	Emerging
Strategy Name	Approach	Allocation	Growth	Core	Value	Growth	Core	Value
Baillie Gifford ACWI ex-US	Active	5%	3.8%			1.3%		
Blackrock EAFE	Passive	5%		5.0%				
Mondrian ACWI ex-US	Active	5%			3.8%			1.3%
Parametric EM	Active	3%					3.0%	
	Plan	% of						
	Allocation	Internation	al Eq					
Developed	12.5%	69%						
Emerging	5.5%	31%						
Total:	18.0%	100%						



#### Proposed International Equity Manager Structure

Proposed International Eq	uity Manag	er Effective	Exposures						
	Investment	Developed	Emerging	Developed	Emerging	Developed	Emerging		
Strategy Name	Approach	Growth	Growth	Core	Core	Value	Value		
Baillie Gifford ACWI ex-US	Active	75%	25%						
Blackrock ACWI ex-US	Passive			75%	25%				
Mondrian ACWI ex-US	Active					75%	25%		
Proposed Effective Interna	ational Equi	ty Allocatio	n						
	Investment		Developed	Developed	Developed	Emerging	Emerging	Emerging	
Strategy Name	Approach	Allocation	Growth	Core	Value	Growth	Core	Value	
Baillie Gifford ACWI ex-US	Active	6%	4.5%			1.5%			
Blackrock ACWI ex-US	Passive	6%		4.5%			1.5%		
Mondrian ACWI ex-US	Active	6%			4.5%			1.5%	
	Plan	% of							
	Allocation International Eq								
Developed	13.5%	75%							
Emerging	4.5%	25%							
Total:	18.0%	100%							

