PUTNAM MANAGED MUNICIPAL INCOME TRUST Form N-O March 28, 2019

#### **UNITED STATES** SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# **FORM N-Q**

## **QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED** MANAGEMENT INVESTMENT COMPANY

Investment Company Act file

number:

(811-05740)

Exact name of registrant as

specified in charter:

Putnam Managed Municipal Income Trust

Address of principal executive

offices:

100 Federal Street, Boston, Massachusetts 02110

service:

Name and address of agent for Robert T. Burns, Vice President

100 Federal Street

Boston, Massachusetts 02110

Copy to: Bryan Chegwidden, Esq.

Ropes & Gray LLP

1211 Avenue of the Americas New York, New York 10036

Registrant's telephone number, (617) 292-1000

including area code:

Date of fiscal year end: October 31, 2019 Date of reporting period: January 31, 2019

Item 1. Schedule of Investments:

Putnam Managed Municipal Income Trust The fund's portfolio 1/31/19 (Unaudited) Key to holding's abbreviations

ABAG — Association Of Bay Area Governments AGM — Assured Guaranty Municipal Corporation AMBAC — AMBAC Indemnity Corporation COP — Certificates of Participation G.O. Bonds — General Obligation Bonds NATL — National Public Finance Guarantee Corp. PSFG — Permanent School Fund Guaranteed U.S. Govt. Coll. — U.S. Government Collateralized VRDN — Variable Rate Demand Notes, which are floating-rate securities with long-term maturities that carry coupons that reset and are payable upon demand either daily, weekly or monthly. The rate shown is the current interest rate at the close of the reporting period. Rates are set by remarketing agents and may take into consideration market supply and demand, credit quality and the current SIFMA Municipal Swap Index rate, which was 1.43% as of the close of the reporting period.

MUNICIPAL BONDS AND NOTES (131.1%)(a)			
Alabama (2.0%)	Rating <sup>(RAT)</sup>	Principal amount	Value
Cullman Cnty., Hlth. Care Auth. Rev. Bonds, (Cullman Regl. Med. Ctr.), Ser. A, 6.75%, 2/1/29 Jefferson Cnty., Swr. Rev. Bonds	Baa3	\$1,100,000	\$1,100,000
Ser. D, 6.50%, 10/1/53 zero %, 10/1/46 Jefferson, Cnty. Rev. Bonds, (Warrants)	BBB BBB	500,000 3,950,000	585,440 3,456,645
5.00%, 9/15/34 5.00%, 9/15/33	AA AA	2,075,000 275,000	2,354,399 313,704
Alaska (1.3%)			7,810,188
Northern Tobacco Securitization Corp. Rev. Bonds, Ser. A, 5.00%, 6/1/46	В3	5,330,000	4,926,786
Arizona (4.8%)			4,926,786
AZ State Indl. Dev. Auth. Ed. 144A Rev. Bonds, (BASIS Schools, Inc.), Ser. G, 5.00%, 7/1/37 Casa Grande, Indl. Dev. Auth. Rev. Bonds, (Casa	ВВ	500,000	512,395
Grande Regl. Med. Ctr.) Ser. A, 7.625%, 12/1/29 (escrow) <sup>(F)</sup> 7.25%, 12/1/19 (escrow) <sup>(F)</sup> La Paz Cnty., Indl. Dev. Auth. Ed. Fac. Rev. Bonds,	D/P D/P	1,800,000 1,000,000	5,380 2,989
(Harmony Pub. Schools), Ser. A 5.00%, 2/15/48 5.00%, 2/15/38	BBB BBB	2,330,000 500,000	2,449,180 533,670
Maricopa Cnty., Indl. Dev. Auth. Ed. Rev. Bonds, (Horizon Cmnty. Learning Ctr.), 5.00%, 7/1/35	BB+	500,000	511,785
Maricopa Cnty., Poll. Control Rev. Bonds, (El Paso Elec. Co.), Ser. A, 7.25%, 2/1/40	Baa1	2,200,000	2,209,350
Phoenix, Indl. Dev. Auth. Ed. Rev. Bonds	AAA/P	200,000	219,906

(Great Hearts Academies), 6.00%, 7/1/32 (Prerefunded 7/1/21)			
(Great Hearts Academies), 5.00%, 7/1/44 (Choice Academies, Inc.), 5.625%, 9/1/42	BBB- BB	1,700,000 315,000	1,748,552 322,081
(Choice Academies, Inc.), 4.875%, 9/1/22 Phoenix, Indl. Dev. Auth. Ed. 144A Rev. Bonds, (BASIS Schools, Inc.)	BB	555,000	567,665
Ser. A, 5.00%, 7/1/46	BB	250,000	252,308
5.00%, 7/1/35 Ser. A, 5.00%, 7/1/35	BB BB	900,000 600,000	922,761 615,174
Salt Verde, Fin. Corp. Gas Rev. Bonds			
5.50%, 12/1/29 5.00%, 12/1/37	Baa1 Baa1	2,000,000 2,000,000	2,430,240 2,329,380
5.00%, 12/1/32	Baa1	570,000	668,525
Yavapai Cnty., Indl. Dev. Auth. Hosp. Fac. Rev. Bonds, (Yavapai Regl. Med. Ctr.)			
5.00%, 8/1/36	А3	200,000	221,146
5.00%, 8/1/34	A3	200,000	222,684
Yavapai Cnty., Indl. Dev. Ed. Auth. Rev. Bonds, (Agribusiness & Equine Ctr.), 5.00%, 3/1/32 Yavapai Cnty., Indl. Dev. Ed. Auth. 144A Rev.	BB+	1,000,000	1,014,330
Bonds, Ser. A, 5.00%, 9/1/34	BB+	500,000	508,095
California (10.9%)			18,267,596
ABAG Fin. Auth. for Nonprofit Corps. Rev. Bonds			
(Episcopal Sr. Cmntys.), 6.00%, 7/1/31	A-/F AA-	660,000	713,645
(O'Connor Woods), 5.00%, 1/1/33 CA School Fin. Auth. Rev. Bonds, (2023 Union,		600,000	664,746
LLC), Ser. A, 6.00%, 7/1/33	BBB	465,000	513,490
CA State Muni. Fin. Auth. Charter School Rev. Bonds, (Partnerships Uplift Cmnty.), Ser. A, 5.00%, 8/1/32	ВВ	665,000	672,209
CA State Poll. Control Fin. Auth. Rev. Bonds			
(Wtr. Furnishing), 5.00%, 11/21/45 (San Jose Wtr. Co.), 4.75%, 11/1/46	Baa3 A	1,000,000 1,100,000	1,040,590 1,179,376
CA Statewide Cmnty. Dev. Auth. Rev. Bonds	^	1,100,000	1,173,370
(899 Charleston, LLC), Ser. A, 5.25%, 11/1/44	BB/P	450,000	468,725
(American Baptist Homes West), 5.75%, 10/1/25 (Terraces at San Joaquin Gardens), Ser. A, 6.00%,	BBB+/F	3,000,000	3,074,730
10/1/47	BB/P	1,345,000	1,427,153
(U. CA Irvine E. Campus Apts. Phase 1), 5.125%, 5/15/31 (U. CA Irvine E. Campus Apts. Phase 1), 5.375%,	Baa1	2,250,000	2,381,085
5/15/38	Baa1	1,000,000	1,061,700
Corona-Norco, School Dist. Pub. Fin. Auth. Special Tax Bonds, (Sr. Lien), Ser. A, 5.00%, 9/1/28	AA-	380,000	425,007
Golden State Tobacco Securitization Corp. Rev. Bonds, Ser. A-2, 5.00%, 6/1/47	BB/P	5,000,000	4,737,500
La Verne, COP, (Brethren Hillcrest Homes), 5.00%, 5/15/36	BBB-/F	325,000	336,616
Los Angeles, Dept. of Arpt. Rev. Bonds, (Los Angeles Intl. Arpt.), 5.00%, 5/15/30	Aa2	1,000,000	1,107,710
Los Angeles, CA Dept. Wtr & Pwr Rev Bonds Ser C 5.00% 7/1/42 <sup>(T)</sup>	Aa2	6,460,000	7,438,844
Los Angeles, Regl. Arpt. Impt. Corp. Lease Rev. Bonds, (Laxfuel Corp.), 4.50%, 1/1/27	Α	400,000	418,856
M-S-R Energy Auth. Rev. Bonds, Ser. A, 6.50%, 11/1/39	BBB+	750,000	1,033,433
Morongo Band of Mission Indians 144A Rev. Bonds, Ser. B, 5.00%, 10/1/42	BBB-/F	1,750,000	1,795,745
JCI. D, J.0070, 10/1/42	AA-	485,000	539,082

Poway, Unified School Dist. Pub. Fin. Auth. Special Tax Bonds, 5.00%, 9/15/32 Rancho Cordova, Cmnty. Fac. Dist. Special Tax Bonds, (Sunridge Anatolia), Ser. 03-1, 5.00%, 9/1/37	BBB-/P	350,000	370,871
San Francisco City & Cnty., Redev. Agcy. Cmnty. Successor Special Tax Bonds, (No. 6 Mission Bay Pub. Impts.), Ser. C			
zero %, 8/1/43 zero %, 8/1/38	BBB/P BBB/P	2,000,000 2,000,000	525,980 710,460
Sunnyvale, Special Tax Bonds, (Cmnty. Fac. Dist. No. 1), 7.75%, 8/1/32	B+/P	835,000	837,146
U. of CA Rev. Bonds, Ser. AF, U.S. Govt. Coll, 5.00% 5/15/36 (Prerefunded 5/15/23) <sup>(7)</sup>	Aa2	1,509,200	1,669,607
U. of CA Rev. Bonds, Ser. AF, 5.00% 5/15/36 <sup>(7)</sup>	Aa2	5,530,000	6,109,103
Yucaipa Special Tax Bonds, (Cmnty. Fac. Dist. No. 98-1 Chapman Heights), 5.375%, 9/1/30	Α	375,000	400,654
			41,654,063
Colorado (3.7%) Central Platte Valley, Metro. Dist. G.O. Bonds,			
5.00%, 12/1/43	BB+	400,000	418,444
CO Pub. Hwy. Auth. Rev. Bonds, (E-470), Ser. C, 5.375%, 9/1/26	A2	500,000	522,845
CO Pub. Hwy. Auth. Mandatory Put Bonds (9/1/19), (E-470), Ser. A, 2.581%, 9/1/39	A2	1,900,000	1,900,608
CO State Educ. & Cultural Fac. Auth. Rev. Bonds, (Skyview Academy), 5.125%, 7/1/34	ВВ	755,000	766,189
CO State Hlth. Fac. Auth. Rev. Bonds (Christian Living Cmnty.), 6.375%, 1/1/41	BB/P	810,000	864,351
(Total Longterm Care National), Ser. A, 6.25%, 11/15/40 (Prerefunded 11/15/20)	AAA/P	300,000	323,280
(Evangelical Lutheran Good Samaritan Society Oblig. Group (The)), 5.625%, 6/1/43	BBB	250,000	271,450
(Evangelical Lutheran Good Samaritan Society Oblig. Group (The)), 5.00%, 12/1/33	BBB	1,100,000	1,151,667
CO State Hlth. Fac. Auth. Hosp. Rev. Bonds (Frasier Meadows Retirement Cmnty.), Ser. A,	BB+/F	1,000,000	1,074,180
5.25%, 5/15/37 (Frasier Meadows Retirement Cmnty.), Ser. B,	ווטט		
5.00%, 5/15/48	BB+/F	1,500,000	1,551,825
(Christian Living Neighborhood), 5.00%, 1/1/37 (Christian Living Neighborhood), 5.00%, 1/1/31	BB/P BB/P	1,250,000 500,000	1,301,013 530,520
Eaton, Area Park & Recreation Dist. G.O. Bonds, 5.25%, 12/1/34	BB/P	220,000	229,018
Park Creek, Metro. Dist. Tax Allocation Bonds, (Sr. Ltd. Property Tax Supported), Ser. A, 5.00%,	A/F	225,000	243,052
12/1/45 Plaza, Tax Alloc. Bonds, (Metro. Dist. No. 1), 5.00%, 12/1/40	BB-/P	1,650,000	1,688,478
Regl. Trans. Dist. Rev. Bonds, (Denver Trans. Partners), 6.00%, 1/15/41	Baa3	750,000	763,050
Southlands, Metro. Dist. No. 1 G.O. Bonds, Ser. A-1, 5.00%, 12/1/37	Ba1	500,000	528,195
Connecticut (0.4%)			14,128,165
Harbor Point Infrastructure Impt. Dist. 144A Tax Alloc. Bonds, (Harbor Point Ltd.), 5.00%, 4/1/39	BB/P	1,500,000	1,569,420
			1,569,420

Delaware (1.4%) DE State Econ. Dev. Auth. Rev. Bonds (Delmarva Pwr.), 5.40%, 2/1/31 (Indian River Pwr.), 5.375%, 10/1/45 (ASPIRA Charter School), Ser. A, 5.00%, 6/1/36 Millsboro Special Oblig. 144A Tax Alloc. Bonds, (Plantation Lakes Special Dev. Dist.), 5.125%,	Baa1 Baa3 BB+ BB-/P	500,000 2,600,000 705,000 1,490,000	521,345 2,687,100 705,804 1,504,885
7/1/38			
			5,419,134
District of Columbia (1.6%)			
DC Rev. Bonds, (Howard U.), Ser. A 6.50%, 10/1/41	BBB-	395,000	412,119
6.25%, 10/1/32	BBB-	525,000	549,827
U.S. Govt. Coll., 6.25%, 10/1/32 (Prerefunded 4/1/21)	AAA/P	475,000	520,600
DC Tobacco Settlement Fin. Corp. Rev. Bonds, Ser. A, zero %, 6/15/46	CCC/P	7,500,000	1,160,550
DC, Rev. Bonds, (Methodist Home of The DC (The)), Ser. A, 5.25%, 1/1/39	BB-/P	250,000	236,413
DC, Wtr. & Swr. Auth. Pub. Util. Rev. Bonds, Ser. C, 5.00%, 10/1/39	AA+	3,000,000	3,361,380
			6 240 880
Florida (5.7%)			6,240,889
Cap. Trust Agcy. Senior Living 144A Rev. Bonds, (H-Bay Ministries, IncSuperior Residencies), Ser.	B-/P	250,000	239,045
C, 7.50%, 7/1/53 Celebration Pointe Cmnty. Dev. Dist. No. 1 144A Special Assmt. Bonds, (Alachua Cnty.), 5.00%,	B/P	250,000	251,323
5/1/48		·	·
Double Branch Cmnty. Dev. Dist. Special Assmt. Bonds, (Sr. Lien), Ser. A-1, 4.125%, 5/1/31	A-	500,000	516,585
Fishhawk, CCD IV Special Assmt. Bonds, 7.25%, 5/1/43	B/P	380,000	395,527
Florida State Higher Edl. Fac. Rev. Bonds, (U. of Tampa), Ser. A, 5.00%, 4/1/32	A-	600,000	647,538
Greater Orlando Aviation Auth. Rev. Bonds, (JetBlue Airways Corp.), 5.00%, 11/15/36	B/P	1,000,000	1,037,330
Halifax Hosp. Med. Ctr. Rev. Bonds, 5.00%, 6/1/36	A-	1,300,000	1,410,981
Lakeland, Retirement Cmnty. 144A Rev. Bonds, (1st Mtge Carpenters), 6.375%, 1/1/43	BBB-/F	840,000	841,487
Lakewood Ranch, Stewardship Dist. Special			
Assessment Bonds, (Village of Lakewood Ranch South), 5.125%, 5/1/46	B+/P	945,000	945,208
Lakewood Ranch, Stewardship Dist. Special Assmt.	BB-/P	485,000	486,649
Bonds, 4.875%, 5/1/35	DD-/F	463,000	460,049
Martin Cnty., Rev. Bonds, (Indiantown Cogeneration), 4.20%, 12/15/25	BBB+	1,500,000	1,519,215
Miami Beach, Hlth. Fac. Auth. Hosp. Rev. Bonds,	Baa1	1,000,000	1,087,350
(Mount Sinai Med. Ctr.), 5.00%, 11/15/29 Miami-Dade Cnty., Rev. Bonds, (Tran. Syst. Sales Surtax), 5.00%, 7/1/42	AA	2,000,000	2,163,020
Miami-Dade Cnty., Indl. Dev. Auth. Rev. Bonds,	BBB	1,240,000	1,308,770
(Pinecrest Academy, Inc.), 5.00%, 9/15/34	DDD	1,240,000	1,500,770
Midtown Miami Cmnty. Dev. Dist. Special Assmt. Bonds, (Garage), Ser. A, 5.00%, 5/1/29	BB-/P	570,000	594,715
Sarasota Cnty., Hlth. Fac. Auth. Rev. Bonds, (Village on the Isle), Ser. A, 5.00%, 1/1/37	BBB-/F	1,000,000	1,038,320
Sarasota Cnty., Pub. Hosp. Dist. Rev. Bonds, (Sarasota Memorial Hosp.), 4.00%, 7/1/48	A1	1,500,000	1,502,295

South Lake Hosp. Dist. Rev. Bonds, (South Lake Hosp.), Ser. A, 6.00%, 4/1/29	Baa1	1,000,000	1,005,260
Southeast Overtown Park West Cmnty. Redev. Agcy. 144A Tax Alloc. Bonds, Ser. A-1, 5.00%, 3/1/30	BBB+	480,000	527,914
Tallahassee, Hlth. Fac. Rev. Bonds, (Tallahassee Memorial HealthCare, Inc.), Ser. A, 5.00%, 12/1/55	Baa1	1,000,000	1,061,610
Tolomato, Cmnty. Dev. Dist. Special Assmt. Bonds, 5.40%, 5/1/37	B+/P	625,000	625,569
Verandah, West Cmnty. Dev. Dist. Special Assmt. Bonds, (Cap. Impt.), 5.00%, 5/1/33	B+/P	470,000	474,432
Village Cmnty. Dev. Dist. No. 10 Special Assmt. Bonds, 5.75%, 5/1/31	BB/P	735,000	816,320
Village Cmnty. Dev. Dist. No. 12 144A Special Assmt. Bonds, 4.00%, 5/1/33	BB-/P	750,000	753,998
Village Cmnty. Dev. Dist. No. 8 Special Assmt. Bonds, (Phase II), 6.125%, 5/1/39	BBB-/P	375,000	391,455
Village Cmnty. Dev. Dist. No. 9 Special Assmt. Bonds, 5.00%, 5/1/22	BBB-/P	265,000	273,374
			21,915,290
Georgia (3.5%)			21,913,290
Clayton Cnty., Dev. Auth. Special Fac. Rev. Bonds, (Delta Airlines), Ser. A, 8.75%, 6/1/29 Cobb Cnty., Dev. Auth. Student Hsg. Rev. Bonds,	Baa3	3,000,000	3,249,270
(Kennesaw State U. Real Estate Oblig. Group), Ser.	Baa2	750,000	788,318
C, 5.00%, 7/15/38 GA State Private College & U. Auth. Rev. Bonds,			
(Mercer U.)	Dan 2	750,000	002 200
Ser. C, 5.25%, 10/1/30 Ser. A, 5.25%, 10/1/27	Baa2 Baa2	750,000 1,000,000	802,380 1,067,070
Ser. A, 5.00%, 10/1/32	Baa2	1,000,000	1,039,520
Gainesville & Hall Cnty., Dev. Auth. Edl. Fac. Rev. Bonds, (Riverside Military Academy)			
5.00%, 3/1/47	BBB-/F	1,000,000	1,027,370
5.00%, 3/1/37	BBB-/F	1,450,000	1,506,550
Gainesville & Hall Cnty., Devauth Retirement Cmnty. Rev. Bonds, (Acts Retirement-Life Cmnty.), Ser. A-2, 6.375%, 11/15/29 (Prerefunded 11/15/19)	A-/F	700,000	724,913
Marietta, Dev. Auth. 144A Rev. Bonds, (Life U. Fac.	Ba3	1,000,000	1,047,520
), Ser. A, 5.00%, 11/1/37 Muni. Election Auth. of GA Rev. Bonds, (Plant			
Voltage Units 3 & 4), Ser. A, 5.50%, 7/1/60	Α	2,000,000	2,090,940
Cuara (0.1%)			13,343,851
Guam (0.1%) Territory of GU, Pwr. Auth. Rev. Bonds, Ser. A,	Baa2	200,000	209,708
5.00%, 10/1/34	Daaz	200,000	209,706
Hawaii (1.0%)			209,708
HI State Dept. Budget & Fin. Rev. Bonds			
(Craigside), Ser. A, 9.00%, 11/15/44 (Prerefunded 11/15/19)	B/P	400,000	422,108
(Hawaiian Elec. Co Subsidiary), 6.50%, 7/1/39	Baa2	3,000,000	3,053,790
(Kahala Nui), 5.125%, 11/15/32	A-/F	400,000	437,336
Idaho (0.5%)			3,913,234
ID State Hlth. Fac. Auth. Rev. Bonds, (St. Luke's Hlth. Sys. Oblig. Group), Ser. A, 4.00%, 3/1/38	А3	2,000,000	2,007,860

Wheels (44, 204)			2,007,860
Illinois (11.3%) Chicago, G.O. Bonds, Ser. A, 6.00%, 1/1/38	BBB+	2,560,000	2,863,590
Chicago, Special Assmt. Bonds, (Lake Shore East),	BB/P	1,572,000	1,580,457
6.75%, 12/1/32 Chicago, Board of Ed. G.O. Bonds			
Ser. C, 5.25%, 12/1/39	B+	1,500,000	1,536,135
Ser. H, 5.00%, 12/1/36	B+	2,100,000	2,160,228
Chicago, Motor Fuel Tax Rev. Bonds, 5.00%, 1/1/29	Ba1	500,000	521,840
Chicago, O'Hare Intl. Arpt. Rev. Bonds Ser. A, 5.00%, 1/1/38	Α	700,000	778,575
Ser. C, 5.00%, 1/1/26	A2	2,595,000	2,836,076
Chicago, Waste Wtr. Transmission Rev. Bonds,	Α	1,360,000	1,455,023
(2nd Lien), 5.00%, 1/1/39	A	1,500,000	1,433,023
Chicago, Wtr. Wks Rev. Bonds 5.00%, 11/1/39	^	875,000	953,138
5.00%, 11/1/39	A A	1,000,000	1,127,640
Cicero, G.O. Bonds, Ser. A, AGM, 5.00%, 1/1/20	AA	1,250,000	1,283,338
Cook Cnty., G.O. Bonds, 5.00%, 11/15/35	AA-	500,000	547,460
Du Page Cnty., Special Svc. Area No. 31 Special	B/P	319,000	319,619
Tax Bonds, (Monarch Landing), 5.625%, 3/1/36 IL Fin. Auth. Rev. Bonds		•	,
(Silver Cross Hosp. & Med. Ctr.), 7.00%, 8/15/44	A A A (D	2 000 000	2.055.400
(Prerefunded 8/15/19)	AAA/P	2,000,000	2,055,400
(Navistar Intl. Recvy. Zone), 6.75%, 10/15/40	BB-	500,000	522,225
(American Wtr. Cap. Corp.), 5.25%, 10/1/39 IL State G.O. Bonds	Α	1,575,000	1,595,491
5.00%, 1/1/29	Baa3	1,095,000	1,161,160
5.00%, 1/1/41	Baa3	700,000	716,800
5.00%, 11/1/34	Baa3	500,000	520,800
5.00%, 11/1/41	Baa3	1,250,000	1,282,988
5.00%, 2/1/39 5.25%, 2/1/30	Baa3 Baa3	200,000 1,000,000	203,442 1,053,740
Ser. A, 5.00%, 12/1/28	Baa3	1,760,000	1,901,926
Ser. A, 5.00%, 5/1/38	Baa3	1,000,000	1,037,400
Ser. B, 5.00%, 10/1/31	Baa3	1,000,000	1,067,020
Ser. C, 5.00%, 11/1/29	Baa3	1,200,000	1,286,808
Ser. D, 5.00%, 11/1/28 IL State Fin. Auth. Rev. Bonds	Baa3	1,000,000	1,081,530
(Plymouth Place), 5.25%, 5/15/45	BB+/F	1,000,000	1,030,640
(Riverside Hlth. Syst.), 4.00%, 11/15/35	A+	500,000	508,685
(Southern IL Healthcare Enterprises, Inc.), 5.00%, 3/1/33	A+	700,000	784,259
(Three Crowns Park), 5.25%, 2/15/37	BB-/P	305,000	319,433
(Three Crowns Park), 5.25%, 2/15/47	BB-/P	540,000	561,497
(Windy City Portfolio), Ser. A-1, 4.375%, 12/1/42	A-	1,000,000	978,920
IL State Fin. Auth. Student Hsg. & Academic Fac.			
Rev. Bonds, (U. of IL-CHF-Chicago, LLC), Ser. A 5.00%, 2/15/47	Baa3	500,000	531,740
5.00%, 2/15/37	Baa3	500,000	541,845
Metro. Pier & Exposition Auth. Rev. Bonds,			
(McCormick Place Expansion), Ser. B,	BBB	1,500,000	838,800
stepped-coupon zero % (4.950%, 6/15/31), 12/15/47 <sup>(57P)</sup>			,
Metro. Wtr. Reclamation Dist. of Greater Chicago	ΛΛ.	1 000 000	1 1/2 020
G.O. Bonds, Ser. A, 5.00%, 12/1/31	AA+	1,000,000	1,143,020
Sales Tax Securitization Corp. Rev. Bonds, Ser. C,	AA-	2,000,000	2,308,860
5.50%, 1/1/36			

42,997,548

Indiana (0.8%) IN State Fin. Auth. Edl. Fac. Rev. Bonds, (Butler U.), Ser. B			
5.00%, 2/1/32 5.00%, 2/1/29	A- A-	1,000,000 500,000	1,074,920 539,115
Valparaiso, Exempt Facs. Rev. Bonds, (Pratt Paper, LLC), 6.75%, 1/1/34	B+/P	1,125,000	1,284,716
lowa (0.5%)			2,898,751
IA State Fin. Auth. Midwestern Disaster Rev. Bonds, (IA Fertilizer Co., LLC)	D	1 000 000	1 000 000
5.50%, 12/1/22 5.25%, 12/1/25	B B	1,000,000 750,000	1,000,980 795,795 
Kansas (0.4%)			1,796,775
Lenexa, Hlth. Care Fac. Rev. Bonds, (LakeView Village), 7.125%, 5/15/29 (Prerefunded 5/15/19) Wichita, Hlth. Care Fac. Rev. Bonds, (Presbyterian	BB/P	500,000	507,480
Manors), Ser. I, 5.00%, 5/15/33 Wyandotte, Cnty./Kanasas City, Unified Govt. 144A	BB-/P	500,000	520,690
Rev. Bonds, (Legends Apt. Garage & West Lawn), 4.50%, 6/1/40	AA	500,000	496,580
Kantusla, (2.5%)			1,524,750
Kentucky (2.5%) KY Econ. Dev. Fin. Auth. Rev. Bonds, (Masonic Home Indpt. Living), 5.00%, 5/15/46	BB/P	1,000,000	1,005,990
KY Pub. Trans. Infrastructure Auth. Rev. Bonds, (1st Tier Downtown Crossing), Ser. A, 6.00%, 7/1/53	Baa3	1,100,000	1,198,263
KY State Econ. Dev. Fin. Auth. Rev. Bonds, (Owensboro Hlth.), Ser. A, 5.25%, 6/1/41	Baa3	125,000	135,136
KY State Econ. Dev. Fin. Auth. Hlth. Care Rev. Bonds, (Masonic Homes of KY), 5.375%, 11/15/42 KY State Pub. Energy Auth. Gas Supply Mandatory	BB-/P	900,000	926,721
Put Bonds (6/1/25), Ser. C-1, 4.00%, 12/1/49 Louisville & Jefferson Cnty., Metro. Govt. Hlth. Syst.	A3	2,100,000	2,215,458
Rev. Bonds, (Norton Healthcare Oblig. Group), 5.50%, 10/1/33	A-	3,000,000	3,355,500
Owen Cnty., Wtr. Wks. Syst. Rev. Bonds, (American Wtr. Co.), Ser. A, 6.25%, 6/1/39	Α	700,000	708,953
Louisiana (0.6%)			9,546,021
LA State Pub. Fac. Solid Waste Disp. Auth. Rev. Bonds, (LA Pellets, Inc.), Ser. A, 8.375%, 7/1/39 (In default)(NON)	D/P	500,000	5
Pub. Fac. Auth. Rev. Bonds, (Tulane U.), Ser. A, 4.00%, 12/15/50	A2	750,000	752,753
Pub. Fac. Auth. Dock & Wharf 144A Rev. Bonds, (Impala Warehousing, LLC), 6.50%, 7/1/36	B+/P	1,000,000	1,087,020
St. Tammany, Public Trust Fin. Auth. Rev. Bonds, (Christwood), 5.25%, 11/15/37	BB/P	385,000	403,318
Maine (0.7%)			2,243,096
ME Hlth. & Higher Edl. Fac. Auth. Rev. Bonds (ME Gen. Med. Ctr.), 7.50%, 7/1/32 (MaineGeneral Health Oblig. Group), 6.95%, 7/1/41	Ba3 Ba3	1,000,000 1,000,000	1,096,180 1,071,320

ME State Fin. Auth. Solid Waste Disp. 144A Mandatory Put Bonds (8/1/25), (Casella Waste Syst.), 5.125%, 8/1/35	В3	500,000	517,990
Maryland (1.4%)			2,685,490
Frederick Cnty., Edl. Fac. 144A Rev. Bonds, (Mount St. Mary's U.), Ser. A, 5.00%, 9/1/37	BB+	500,000	526,695
MD Econ. Dev. Corp. Poll. Control Rev. Bonds, (Potomac Electric Power Co.), 6.20%, 9/1/22	A2	550,000	551,920
Prince Georges Cnty., Rev. Bonds, (Collington Episcopal Life Care Cmnty., Inc.), 5.25%, 4/1/37 Prince Georges Cnty., Special Oblig. 144A Tax	BB/P	1,200,000	1,257,480
Alloc. Bonds, (Westphalia Town Ctr.), 5.125%, 7/1/39	B/P	1,000,000	1,024,860
Westminster, Rev. Bonds (Lutheran Village at Miller's Grant, Inc. (The)), Ser.	B-/P	250,000	263,400
A, 6.00%, 7/1/34 (Carroll Lutheran Village, Inc.), 5.125%, 7/1/34	BB/P	1,500,000	1,576,080
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Massachusetts (1.7%)			5,200,435
MA State Dev. Fin. Agcy. Rev. Bonds			
(First Mtge Orchard Cove), 5.00%, 10/1/19 (Linden Ponds, Inc.), Ser. B, zero %, 11/15/56	BB/P B-/P	550,000 439,022	551,089 111,165
(Loomis Cmntys.), Ser. A, 6.00%, 1/1/33	BBB	200,000	220,336
(Sabis Intl.), Ser. A, 8.00%, 4/15/39 (Prerefunded 10/15/19)	BBB	690,000	719,974
(Suffolk U.), Ser. A, 5.75%, 7/1/39	Baa2	320,000	324,096
(Suffolk U.), Ser. A, 6.25%, 7/1/30 MA State Dev. Fin. Agcy. 144A Rev. Bonds, (Linden	Baa2	360,000	366,106
Ponds, Inc. Fac.)			
5.125%, 11/15/46 5.00%, 11/15/38	BB/F BB/F	1,000,000 500,000	1,019,580 510,830
MA State Dev. Fin. Agcy. Hlth. Care Fac. 144A Rev.	B/P	995,000	996,682
Bonds, (Adventcare), Ser. A, 6.65%, 10/15/28 MA State Hith. & Edl. Fac. Auth. Rev. Bonds,	•		
(Milford Regl. Med.), Ser. E, 5.00%, 7/15/22	BBB-	820,000	827,667
MA State Port Auth. Special Fac. Rev. Bonds, (Conrac), Ser. A, 5.125%, 7/1/41	Α	750,000	793,553
Michigan (6.5%)			6,441,078
Detroit, G.O. Bonds, 5.00%, 4/1/37	Ba3	750,000	780,705
Detroit, Wtr. Supply Syst. Rev. Bonds, Ser. B, AGM, 6.25%, 7/1/36	AA	5,000	5,085
Flint, Hosp. Bldg. Auth. Rev. Bonds, Ser. A, 5.25%, 7/1/39	Ba1	750,000	770,723
Great Lakes, Wtr. Auth. Swr. Rev. Bonds, (Brazos Presbyterian Homes, Inc.), Ser. C, 5.00%, 7/1/36	Α	2,000,000	2,232,280
Kentwood, Economic Dev. Rev. Bonds, (Holland Home), 5.625%, 11/15/32 MI State Fin. Auth. Rev. Bonds	BBB-/F	2,195,000	2,329,861
(Local Govt. Loan Program - Detroit Wtr. & Swr.	A+	400,000	442,932
Dept. (DWSD)), Ser. D-2, 5.00%, 7/1/34 (Detroit Wtr. & Swr.), Ser. C-6, 5.00%, 7/1/33	A+	600,000	659,484
MI State Fin. Auth. Ltd. Oblig. Rev. Bonds			
(Lawrence Technological U.), 5.00%, 2/1/47 (Kalamazoo College), 4.00%, 12/1/47	BB+ A1	2,150,000 1,000,000	2,247,911 1,017,050
MI State Hosp. Fin. Auth. Rev. Bonds, (Trinity Hlth.	Aa3	8,500,000	9,122,396
Credit Group), Ser. A, 5.00%, 12/1/47 <sup>(T)</sup>	703	0,300,000	J,122,J3U

MI State Strategic Fund Ltd. Rev. Bonds,			
(Worthington Armstrong Venture), 5.75%, 10/1/22 (Escrowed to maturity)	AAA/P	1,350,000	1,523,111
MI State Strategic Fund Ltd. Oblig. Rev. Bonds, (Cadillac Place Office Bldg.), 5.25%, 10/15/26	Aa2	1,250,000	1,361,625
Wayne Cnty., Arpt. Auth. Rev. Bonds, Ser. A, 5.00%, 12/1/21	A2	2,000,000	2,158,220
Minnesota (1.3%)			24,651,383
Baytown Twp., Lease Rev. Bonds, Ser. A, 4.00%, 8/1/41	BB+	380,000	347,757
Ham Lake, Charter School Lease Rev. Bonds, (DaVinci Academy of Arts & Science), Ser. A, 5.00%, 7/1/47	BB-/P	500,000	483,060
Rochester, Hlth. Care Fac. Rev. Bonds, (Olmsted Med. Ctr.), 5.875%, 7/1/30 Sartell, Hlth. Care & Hsg. Facs. Rev. Bonds,	A/F	1,000,000	1,051,520
(Country Manor Campus, LLC) 5.25%, 9/1/30 5.25%, 9/1/27 St. Paul, Hsg. & Redev. Auth. Charter School Lease	B-/P B-/P	500,000 750,000	532,090 807,315
Rev. Bonds, (Nova Classical Academy), Ser. A 6.625%, 9/1/42 (Prerefunded 9/1/21) 6.375%, 9/1/31	BBB- BBB-	250,000 250,000	280,080 269,270
St. Paul, Port Auth. Lease Rev. Bonds, (Regions Hosp. Pkg. Ramp), Ser. 1, 5.00%, 8/1/36	A-/P	1,125,000	1,126,744
			4,897,836
Missouri (1.2%) Saint Louis, Indl. Dev. Auth. Fin. Rev. Bonds, (Ballpark Village Dev.), Ser. A, 4.75%, 11/15/47	BB-/P	875,000	888,020
St. Louis Arpt. Rev. Bonds, (Lambert-St. Louis Intl.), Ser. A-1, 6.625%, 7/1/34	A2	1,000,000	1,018,680
St. Louis Cnty., Indl. Dev. Auth. Sr. Living Fac. Rev. Bonds, (Friendship Village Oblig. Group), Ser. A, 5.00%, 9/1/38	BB+/F	2,500,000	2,518,825
Nebraska (1.6%)			4,425,525
Central Plains, Energy Mandatory Put Bonds (1/1/24), (No. 4), 5.00%, 3/1/50	А3	4,500,000	4,923,810
Lancaster Cnty., Hosp. Auth. Rev. Bonds, (Immanuel Oblig. Group), 5.50%, 1/1/30	AA/F	1,000,000	1,028,760
Nevada (1.7%)			5,952,570
Clark Cnty., Arpt. Rev. Bonds, Ser. A-2, 5.00%, 7/1/33	Aa3	1,050,000	1,176,357
Clark Cnty., Impt. Dist. Special Assmt. Bonds, (Mountains Edge Local No. 142), 5.00%, 8/1/21(FWC)	Α	465,000	492,449
Clark Cnty., Impt. Dist. No. 159 Special Assmt. Bonds, (Summerlin Village 16A), 5.00%, 8/1/32(FWC) Las Vegas, Special Assmt. Bonds	B+/P	480,000	493,651
5.00%, 6/1/31 (Dist. No. 607 Local Impt.), 5.00%, 6/1/23	B+/P BBB-/P	410,000 340,000	417,253 360,709
Las Vegas, Impt. Dist. No. 812 Special Assmt. Bonds, (Summerlin Village 24), 5.00%, 12/1/35	B/P	250,000	252,430
North Las Vegas, G.O. Bonds, AGM, 4.00%, 6/1/33	AA	3,095,000	3,249,812

New Herenshire (2.200)			6,442,661
New Hampshire (3.3%) National Fin. Auth. 144A Rev. Bonds, (Covanta Holding Corp.), Ser. C, 4.875%, 11/1/42 NH State Bus. Fin. Auth. Solid Waste Disp. 144A	B1	1,275,000	1,256,385
Mandatory Put Bonds (10/1/19), (Casella Waste Syst., Inc.), 4.00%, 4/1/29 NH State Hlth. & Ed. Fac. Auth. Rev. Bonds	В3	350,000	352,209
(Catholic Med. Ctr.), 5.00%, 7/1/44 (Concord Hosp. Trust), 5.00%, 10/1/42 (Elliot Hosp.), 5.00%, 10/1/38 (Kendel at Hanover), 5.00%, 10/1/40 (Rivermead), Ser. A, 6.625%, 7/1/31 (Rivermead), Ser. A, 6.875%, 7/1/41 (Southern NH Med. Ctr.), 5.00%, 10/1/37 NH State Hlth. & Ed. Fac. Auth. 144A Rev. Bonds, (Hillside Village), Ser. A, 6.25%, 7/1/42	A- A2 Baa1 BBB+/F BB+/P BB+/P A- B-/P	1,000,000 3,250,000 250,000 585,000 1,320,000 2,000,000 1,000,000	1,083,400 3,583,190 269,243 613,782 1,403,424 2,120,280 1,094,330 787,935
			12,564,178
New Jersey (7.4%) Atlantic City, G.O. Bonds, (Tax Appeal), Ser. B,			
AGM, 4.00%, 3/1/42	AA	1,250,000	1,279,850
Burlington Cnty., Bridge Comm. Econ. Dev. Rev. Bonds, (The Evergreens), 5.625%, 1/1/38 NJ State Econ. Dev. Auth. Rev. Bonds	BB+/P	1,500,000	1,430,295
(Ashland School, Inc.), 6.00%, 10/1/33	BBB	1,000,000	1,110,180
(North Star Academy Charter School of Newark, Inc.), 5.00%, 7/15/47	BBB-	1,000,000	1,051,280
(NYNJ Link Borrower, LLC), 5.375%, 1/1/43 (United Methodist Homes), Ser. A, 5.00%, 7/1/29 5.00%, 6/15/26 Ser. AAA, 5.00%, 6/15/36 Ser. B, 5.00%, 11/1/26	BBB- BBB-/F Baa1 Baa1 Baa1	1,000,000 500,000 500,000 350,000 3,000,000	1,075,450 524,330 535,395 374,619 3,402,750
NJ State Econ. Dev. Auth. Fac. Rev. Bonds, (Continental Airlines, Inc.), 5.625%, 11/15/30 NJ State Econ. Dev. Auth. Special Fac. Rev. Bonds,	ВВ	1,500,000	1,692,765
(Port Newark Container Term., LLC), 5.00%, 10/1/37	Ba1	1,500,000	1,603,125
NJ State Econ. Dev. Auth. Wtr. Fac. Rev. Bonds, (NJ American Wtr. Co.)			
Ser. A, 5.70%, 10/1/39 Ser. D, 4.875%, 11/1/29	A1 A1	2,600,000 700,000	2,654,418 725,102
NJ State Hlth. Care Fac. Fin. Auth. Rev. Bonds, (St. Peter's U. Hosp.), 6.25%, 7/1/35	Ba1	2,000,000	2,126,840
NJ State Hlth. Care Fac. Fin. Auth. VRDN, (Virtua Hlth.), Ser. C, 1.10%, 7/1/43 NJ State Trans. Trust Fund Auth. Rev. Bonds,	A-1	1,000,000	1,000,000
(Federal Hwy. Reimbursement Notes), 5.00%, 6/15/28	A+	600,000	677,046
North Hudson, Swr. Auth. Rev. Bonds, Ser. A 5.00%, 6/1/42 5.00%, 6/1/42 (Prerefunded 6/1/22)	A+ AAA/P	945,000 55,000	1,015,828 60,729
South Jersey, Port Corp. Rev. Bonds, (Marine Term.), Ser. B, 5.00%, 1/1/42	Baa1	1,000,000	1,063,490
Tobacco Settlement Fin. Corp. Rev. Bonds, Ser. B, 5.00%, 6/1/46 Union Cnty., Util. Auth. Resource Recvy. Fac. Lease	ВВВ	3,300,000	3,295,875
Rev. Bonds, (Covanta Union), Ser. A, 5.25%, 12/1/31	AA+	1,450,000	1,573,772

28,273,139

New Mexico (0.7%) Farmington, Poll. Control Rev. Bonds (Public Service Co. of San Juan, NM), Ser. D, 5.90%,	BBB+	500,000	522,200
6/1/40 (AZ Pub. Svc. Co.), Ser. B, 4.70%, 9/1/24	A2	2,000,000	2,082,700
New York (7.3%)			2,604,900
Glen Cove, Local Econ. Assistance Corp. Rev. Bonds, (Garvies Point Pub. Impt.), Ser. C,	B/P	300,000	243,840
stepped-coupon zero% (5.625%, 1/1/24), 1/1/55 <sup>(srp)</sup>	5/1	300,000	243,040
Metro. Trans. Auth. Rev. Bonds, (Green Bonds), Ser. C-1, 4.00%, 11/15/32	A1	3,500,000	3,702,965
Metro. Trans. Auth. Dedicated Tax Mandatory Put Bonds (6/1/22), Ser. A-2A, 1.88%, 11/1/26	AA	2,910,000	2,885,090
NY City, Muni. Wtr. & Swr. Syst. Fin. Auth. VRDN, Ser. DD-1, 1.55%, 6/15/43	VMIG 1	1,640,000	1,640,000
NY Counties, Tobacco Trust VI Rev. Bonds, (Tobacco Settlement Pass Through), Ser. A-2B,	BBB	1,700,000	1,718,581
5.00%, 6/1/51	555	1,700,000	1,710,301
NY State Convention Ctr. Dev. Corp. Rev. Bonds, (Hotel Unit Fee), zero %, 11/15/50	Aa3	2,500,000	677,675
NY State Dorm. Auth. Non-State Supported Debt Rev. Bonds, (NYU Hosp. Ctr.), 5.00%, 7/1/34 NY State Dorm. Auth. Rev. Bonds, Ser. A, Group C, 5.00% 3/15/42 <sup>(7)</sup>	A3	500,000	556,695
	Aa1	10,845,000	12,218,650
NY State Env. Fac. Corp. Solid Waste Disp. 144A Mandatory Put Bonds (12/2/19), (Casella Waste	В3	1,000,000	1,006,300
Syst., Inc.), 3.75%, 12/1/44 NY State Liberty Dev. Corp. 144A Rev. Bonds			, ,
(World Trade Ctr.), Class 2, 5.375%, 11/15/40	BB-/P	750,000	794,370
(3 World Trade Ctr., LLC), Class 1-3, 5.00%, 11/15/44	BB-/P	1,250,000	1,296,225
Port Auth. of NY & NJ Special Oblig. Rev. Bonds, (KIAC Partners Special Project - 5th Installment), 6.75%, 10/1/19	BBB-/P	100,000	102,240
Port Auth. of NY & NJ Special Oblig. Rev. Bonds, (John F. Kennedy Intl. Air Term.), 6.00%, 12/1/42	Baa1	1,000,000	1,058,890
			27,901,521
North Carolina (1.4%)			27,901,321
NC State Med. Care Comm. Hlth. Fac. Rev. Bonds, (Presbyterian Homes), Ser. C, 5.00%, 10/1/31	A-/F	800,000	895,736
NC State Med. Care Comm. Retirement Fac. Rev. Bonds			
(Aldersgate United Methodist Church), 5.00%, 7/1/45	BB/P	825,000	844,025
(Aldersgate United Methodist Retirement Cmnty., Inc.), Ser. A, 5.00%, 7/1/47	BB/P	400,000	411,036
(Salemtowne), 5.375%, 10/1/45	BB/P BB/P	1,615,000 965,000	1,694,474
(Southminister, Inc.), 5.00%, 10/1/37 (United Church Homes & Svcs. Oblig. Group), Ser.	BB/P	500,000	998,437 520,945
A, 5.00%, 9/1/37	,.	,	
Ohio (5.3%)			5,364,653
Buckeye, Tobacco Settlement Fin. Auth. Rev.			
Bonds Ser. A-2, 6.50%, 6/1/47	В3	4,000,000	3,965,160
Ser. A-3, 6.25%, 6/1/37	B-	850,000	836,264

Ser. A-2, 6.00%, 6/1/42	В3	4,000,000	3,843,080
Ser. A-2, 5.75%, 6/1/34	B- CCC+/P	5,175,000	4,845,639
Ser. B, zero %, 6/1/47 Franklin Cnty., Hlth. Care Fac. Rev. Bonds, (OH	CCC+/P	10,000,000	534,900
Presbyterian Retirement Svcs. (OPRS) Cmntys.	BBB/F	1,250,000	1,289,638
Oblig. Group), Ser. A, 5.625%, 7/1/26			
Lake Cnty., Hosp. Fac. Rev. Bonds, (Lake Hosp. Syst., Inc.), Ser. C, 5.625%, 8/15/29	Baa1	245,000	245,769
OH State Air Quality Dev. Auth. Exempt Fac. 144A	BB+/P	1,200,000	1,211,424
Rev. Bonds, (Pratt Paper, LLC), 4.50%, 1/15/48	ББТ/Г	1,200,000	1,211,424
OH State Higher Edl. Fac. Comm. Rev. Bonds, (Kenyon College)			
5.00%, 7/1/44	Α	525,000	545,349
U.S. Govt. Coll., 5.00%, 7/1/44 (Prerefunded	AAA/P	275,000	287,375
7/1/20) OH State Private Activity Rev. Bonds, (Portsmouth			
Bypass), AGM, 5.00%, 12/31/35	AA	750,000	833,573
Southeastern OH Port Auth. Hosp. Fac. Rev. Bonds			
5.75%, 12/1/32 (Memorial Hlth. Syst. Oblig. Group), 5.00%, 12/1/43	BB-/F BB-/F	900,000 150,000	962,874 151,880
Toledo-Lucas Cnty., Port Auth. Rev. Bonds, (CSX			·
Transn, Inc.), 6.45%, 12/15/21	A3	500,000	554,970
Oklahoma (0.7%)			20,107,895
Tulsa Cnty., Indl. Auth. Rev. Bonds, (Sr. Living			
Cmnty. Montereau, Inc.), Ser. A, 7.125%, 11/1/30	BB-/P	1,250,000	1,329,725
(Prerefunded 5/1/20)			
Tulsa, Muni. Arpt. Trust Rev. Bonds, (American Airlines, Inc.), Ser. B, 5.50%, 12/1/35	B+/P	1,250,000	1,337,038
			2,666,763
Oregon (0.5%)			
Multnomah Cnty., Hosp. Fac. Auth. Rev. Bonds (Mirabella at South Waterfront), Ser. A, 5.40%,			
10/1/44	BB-/P	500,000	527,335
(Terwilliger Plaza, Inc.), 5.00%, 12/1/29 Warm Springs Reservation, Confederated Tribes	BBB/F	350,000	369,138
144A Rev. Bonds, (Pelton Round Butte Tribal), Ser.	A3	700,000	715,078
B, 6.375%, 11/1/33			-,
Yamhill Cnty., Hosp. Auth. Rev. Bonds,	DD/D	325,000	242.005
(Friendsview Retirement Cmnty.), Ser. A, 5.00%, 11/15/36	BB/P	323,000	342,085
			1,953,636
Pennsylvania (5.6%)			
Allegheny Cnty., Higher Ed. Bldg. Auth. Rev. Bonds (Robert Morris U.), Ser. A, 5.50%, 10/15/30	Baa3	1,000,000	1,039,500
(Robert Morris UUPMC Events Ctr.), 5.00%,		, ,	, ,
10/15/47	Raa3	1 190 000	1 258 687
Allegheny Cnty., Hosp. Dev. Auth. Rev. Bonds, (Allegheny Hlth. Network Oblig. Group), Ser. A	Baa3	1,190,000	1,258,687
(· ··· - g· · · · · · · · · · · · · · · ·	Baa3	1,190,000	1,258,687
5.00%, 4/1/35	Baa3 A	1,200,000	1,340,940
5.00%, 4/1/32	A A	1,200,000 1,425,000	1,340,940 1,621,109
5.00%, 4/1/32 Cap. Region Wtr. Rev. Bonds, 5.00%, 7/15/30	A A A+	1,200,000 1,425,000 1,500,000	1,340,940 1,621,109 1,770,885
5.00%, 4/1/32 Cap. Region Wtr. Rev. Bonds, 5.00%, 7/15/30 Chester Cnty., Hlth. & Ed. Fac. Auth. Rev. Bonds, (Immaculata U.), 5.00%, 11/1/46	A A	1,200,000 1,425,000	1,340,940 1,621,109
5.00%, 4/1/32 Cap. Region Wtr. Rev. Bonds, 5.00%, 7/15/30 Chester Cnty., Hlth. & Ed. Fac. Auth. Rev. Bonds, (Immaculata U.), 5.00%, 11/1/46 Chester Cnty., Indl. Dev. Auth. Rev. Bonds	A A A+	1,200,000 1,425,000 1,500,000	1,340,940 1,621,109 1,770,885
5.00%, 4/1/32 Cap. Region Wtr. Rev. Bonds, 5.00%, 7/15/30 Chester Cnty., Hlth. & Ed. Fac. Auth. Rev. Bonds, (Immaculata U.), 5.00%, 11/1/46 Chester Cnty., Indl. Dev. Auth. Rev. Bonds (Collegium Charter School), Ser. A, 5.125%,	A A A+	1,200,000 1,425,000 1,500,000	1,340,940 1,621,109 1,770,885
5.00%, 4/1/32 Cap. Region Wtr. Rev. Bonds, 5.00%, 7/15/30 Chester Cnty., Hlth. & Ed. Fac. Auth. Rev. Bonds, (Immaculata U.), 5.00%, 11/1/46 Chester Cnty., Indl. Dev. Auth. Rev. Bonds	A A A+ BB/F	1,200,000 1,425,000 1,500,000 1,000,000	1,340,940 1,621,109 1,770,885 967,860

(Renaissance Academy Charter School), 5.00%, 10/1/34			
Chester Cnty., Indl. Dev. Auth. Student Hsg. Rev. Bonds, (West Chester U. Student Hsg., LLC), Ser. A, 5.00%, 8/1/45	Baa3	1,000,000	1,030,370
Cmnwlth. Fin. Auth. Rev. Bonds, (Tobacco Master Settlement Payment), 5.00%, 6/1/35	A1	1,000,000	1,122,650
Lycoming Cnty., Auth. Hlth. Syst. Rev. Bonds, (Susquehanna Hlth. Syst.), Ser. A, 5.75%, 7/1/39 Montgomery Cnty., Indl. Auth. Rev. Bonds,	A+	3,000,000	3,043,080
(Whitemarsh Continuing Care Retirement Cmnty.), Ser. A, 5.25%, 1/1/48	BB-/P	500,000	500,295
Moon, Indl. Dev. Auth. Rev. Bonds, (Baptist Homes Society Oblig. Group), 5.75%, 7/1/35 PA State Higher Edl. Fac. Auth. Rev. Bonds	B+/P	1,500,000	1,565,970
(Shippensburg U.), 6.25%, 10/1/43 (Prerefunded 10/1/21)	BBB-	500,000	557,350
(Gwynedd Mercy College), Ser. KK1, 5.375%, 5/1/42 PA State Tpk. Comm. Rev. Bonds	BBB	785,000	810,709
Ser. B-1, 5.00%, 6/1/42 Ser. A, 5.00%, 12/1/38	A3 A1	900,000 500,000	977,751 548,295
Philadelphia, Auth. for Indl. Dev. Rev. Bonds, (Master Charter School), 6.00%, 8/1/35 (Prerefunded 8/1/20)	BBB-	1,055,000	1,119,123
West Shore Area Auth. Rev. Bonds, (Lifeways at Messiah Village), Ser. A, 5.00%, 7/1/35	BBB-/F	785,000	818,143
Puerto Rico (0.3%)			21,221,748
Cmnwlth. of PR, G.O. Bonds, (Pub. Impt.), Ser. A, NATL, 5.50%, 7/1/20	Baa2	1,000,000	1,027,630
Rhode Island (0.4%)			1,027,630
RI Hlth. & Edl. Bldg. Corp. Rev. Bonds, (Lifespan Oblig. Group-Hosp. Fin.), 5.00%, 5/15/25	BBB+	1,500,000	1,708,245
South Carolina (3.2%)			1,708,245
SC State Jobs Econ. Dev. Auth. Edl. Fac. 144A Rev. Bonds, (High Point Academy), Ser. A			
5.75%, 6/15/49 5.75%, 6/15/39 SC State Jobs-Econ. Dev. Auth. Hosp. Rev. Bonds,	Bal Bal	1,000,000 500,000	1,042,920 526,425
(Prisma Hlth. Oblig. Group), Ser. A, 5.00%, 5/1/43 SC State Pub. Svcs. Auth. Rev. Bonds	A2	4,500,000	4,913,595
Ser. A, 5.00%, 12/1/36 Ser. A, 5.50%, 12/1/54	A+ A+	1,000,000 2,000,000	1,089,390 2,146,440
Ser. C, 5.00%, 12/1/46	A+	2,500,000	2,635,275
Tennessee (0.4%) Johnson City, Hlth. & Edl. Fac. Board Hosp. Rev.			12,354,045
Bonds, (Mountain States Hlth. Alliance), 6.00%, 7/1/38 (Prerefunded 7/1/20)	A-	1,450,000	1,535,333
Texas (14.3%)			1,535,333
ICAGS (14.570)	AAA	1,000,000	1,023,450

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Arlington, Higher Ed. Fin. Corp. Rev. Bonds, (Uplift Ed.), Ser. A, PSFG, 4.00%, 12/1/42			
Central TX Regl. Mobility Auth. Rev. Bonds, (Sr. Lien), Ser. A, 5.00%, 1/1/33	A-	525,000	566,050
Clifton, Higher Ed. Fin. Corp. Rev. Bonds			
(Intl. Leadership), Ser. D, 6.125%, 8/15/48	BB-/P	2,000,000	2,015,440
(Idea Pub. Schools), 5.00%, 8/15/32	BBB+	315,000	333,566
(IDEA Pub. Schools), 5.00%, 8/15/28 Dallas-Fort Worth, Intl. Arpt. Rev. Bonds	BBB+	200,000	227,648
Ser. A, 5.00%, 11/1/43	A1	2,600,000	2,703,662
Ser. B, 4.50%, 11/1/45	A+	2,535,000	2,635,690
Harris Cnty., Cultural Ed. Fac. Fin. Corp. Rev. Bonds	DDD /5	250.000	250 220
(Brazos Presbyterian Homes, Inc.), 5.00%, 1/1/37	BBB-/F	250,000	258,230
(YMCA of the Greater Houston Area), Ser. A, 5.00%, 6/1/33	Baa2	1,000,000	1,042,930
Houston, Arpt. Syst. Rev. Bonds	D.D.	2.500.000	2 604 050
Ser. B-1, 5.00%, 7/15/35	BB	2,500,000	2,684,850
Ser. B-1, 5.00%, 7/15/30	BB	650,000	706,609
Ser. A, 5.00%, 7/1/24	A+	1,500,000	1,599,060
La Vernia, Higher Ed. Fin. Corp. Rev. Bonds, (Kipp,			
Inc.), Ser. A 6.375%, 8/15/44 (Prerefunded 8/15/19)	AAA/P	1,100,000	1,127,038
6.25%, 8/15/39 (Prerefunded 8/15/19)	AAA/P AAA/P	1,975,000	2,022,242
La Vernia, Higher Ed. Fin. Corp. 144A Rev. Bonds,	AAA/F	1,973,000	2,022,242
(Meridian World School, LLC), Ser. A, 5.25%,	BB+	1,000,000	1,025,520
8/15/35	ББТ	1,000,000	1,023,320
Love Field, Arpt. Modernization Corp. Special Fac. Rev. Bonds, (Southwest Airlines Co.), 5.25%,	A3	2 500 000	2 627 240
11/1/40	AS	3,500,000	3,637,340
Matagorda Cnty., Poll. Control Rev. Bonds			
(Central Pwr. & Light Co.), Ser. A, 6.30%, 11/1/29	A-	1,000,000	1,036,280
(Dist. No. 1), Ser. A, AMBAC, 4.40%, 5/1/30	A- A-	1,250,000	1,340,525
Montgomery Cnty., Toll Road Auth. Rev. Bonds,			
5.00%, 9/15/36	BBB-	1,110,000	1,191,241
New Hope, Cultural Ed. Fac. Fin. Corp. Rev. Bonds			
(Wesleyan Homes, Inc.), 5.50%, 1/1/43	BB-/P	500,000	523,555
(Collegiate Student Hsg. Island Campus, LLC), Ser.			
A, 5.00%, 4/1/42	Ba1	2,830,000	2,746,685
(Collegiate HsgTarleton St.), 5.00%, 4/1/39	Baa3	500,000	518,585
(Longhorn Village), 5.00%, 1/1/37	BB-/P	500,000	506,495
(MRC Crestview), 5.00%, 11/15/36	BB+/F	200,000	208,088
(Woman's UCollegiate Hsg. Denton, LLC), Ser.	AA	1,000,000	993,600
A-1, AGM, 4.125%, 7/1/53	AA	1,000,000	993,000
Newark, Higher Ed. Fin. Corp. Rev. Bonds, (Austin	BB-/P	500,000	502,095
Achieve Pub. Schools, Inc.), 5.00%, 6/15/48	<i>DD</i> /1	300,000	302,033
North Texas Edl. Fin. Co. Rev. Bonds, (Uplift Edl.),	BBB-	2,000,000	2,079,520
Ser. A, 5.25%, 12/1/47		2,000,000	2,073,320
Red River, Hlth. Retirement Fac. Dev. Corp. Rev.			
Bonds			
(Happy Harbor Methodist Home, Inc.), Ser. A,	B-/P	420,000	471,274
7.75%, 11/15/44	- ,.		,
(Sears Methodist Retirement Syst. Oblig. Group),	D/P	593,000	415
Ser. A, 5.15%, 11/15/27 (In default)(NON)	_,.		
(Sears Methodist Retirement Syst. Oblig. Group),	D/P	1,124,000	787
Ser. A, 5.45%, 11/15/38 (In default)(NON)			
(Sears Methodist Retirement Syst. Oblig. Group),	D/P	441,000	309
Ser. A, 6.05%, 11/15/46 (In default)(NON)	•	•	
(Sears Methodist Retirement Syst. Oblig. Group),	D/P	749,000	1,049
Ser. B, 6.15%, 11/15/49 (In default)(NON)	•	•	•
(Sears Methodist Retirement Syst. Oblig. Group),	D/P	39,000	55
Ser. C, 6.25%, 5/9/53 (In default) <sup>(NON)</sup>	D/B	76 000	52
	D/P	76,000	53

(Sears Methodist Retirement Syst. Oblig. Group), Ser. D, 6.05%, 11/15/46 (In default)(NON)			
Temple, Tax Increment 144A Tax Alloc. Bonds, (Reinvestment Zone No. 1), Ser. A, 5.00%, 8/1/38 TX Private Activity Surface Trans. Corp. Rev. Bonds	BB+	1,500,000	1,573,650
(NTE Mobility), 7.50%, 12/31/31 (LBJ Infrastructure), 7.00%, 6/30/40	Baa2 Baa3	2,000,000 2,500,000	2,092,160 2,651,125
TX State Muni. Gas Acquisition & Supply Corp. III Rev. Bonds, 5.00%, 12/15/28 TX State Private Activity Bond Surface Trans. Corp. Rev. Bonds, (Blueridge Trans. Group, LLC (SH 288)	А3	1,500,000	1,619,430
Toll Lane)) 5.00%, 12/31/55 5.00%, 12/31/50	Baa3 Baa3	500,000 750,000	529,285 796,253
TX State Transportation Commission G.O. Bonds, Ser. A, $5.00\% \ 10/1/44^{(7)}$ Uptown Dev. Auth. Tax Alloc. Bonds, Ser. A, $5.00\%$ , $9/1/40$	Aaa	8,000,000	8,898,516
	BBB	700,000	751,961
Virginia (3.7%)			54,642,316
Cherry Hill Cmnty., Dev. Auth. 144A Special Assmt. Bonds, (Potomac Shores), 5.40%, 3/1/45	B/P	1,000,000	1,020,170
Front Royal & Warren Cnty., Indl. Dev. Auth. Rev. Bonds, (Valley Hlth. Oblig. Group), 4.00%, 1/1/50	A1	2,500,000	2,469,300
Henrico Cnty., Econ. Dev. Auth. Res. Care Fac. Rev. Bonds, (United Methodist Homes), 5.00%, 6/1/22	BB+/P	625,000	662,825
King George Cnty., Indl. Dev. Auth. Mandatory Put Bonds (5/1/19), (Waste Mgt., IncKing George Landfill, Inc.), Ser. A, 2.25%, 6/1/23	A-	3,000,000	2,999,970
Lexington, Indl. Dev. Auth. Res. Care Fac. Rev. Bonds, (Kendal at Lexington), 4.00%, 1/1/31	BBB-/F	675,000	684,126
Lower Magnolia Green Cmnty., Dev. Auth. 144A Special Assmt. Bonds, 5.00%, 3/1/35	B/P	485,000	487,250
Small Bus. Fin. Auth. Private Activity Rev. Bonds, (Transform 66 P3), 5.00%, 12/31/49	Baa3	1,000,000	1,072,970
Suffolk, Econ. Dev. Auth. Retirement Fac. Rev. Bonds, (United Church Homes & Svcs. Oblig. Group), 5.00%, 9/1/31	BB/P	500,000	520,765
VA State Cmnwlth. U. Hlth. Syst. Auth. Rev. Bonds, Ser. B, 4.00%, 7/1/40	Aa3	2,000,000	2,041,520
VA State Small Bus. Fin. Auth. Rev. Bonds (Elizabeth River Crossings OPCO, LLC), 6.00%,	BBB	740,000	809,382
1/1/37 (Express Lanes, LLC), 5.00%, 7/1/34	BBB	1,150,000	1,207,995
			13,976,273
Washington (4.8%) Kalispel Tribe of Indians Priority Dist. Rev. Bonds,			
Ser. A, 5.25%, 1/1/38	BB+/P	750,000	800,520
Port of Seattle, Rev. Bonds, Ser. C, 5.00%, 4/1/40 Port Seattle, Port Indl. Dev. Corp. Rev. Bonds,	A1	625,000	685,831
(Delta Airlines, Inc.), 5.00%, 4/1/30	BBB-	800,000	858,520
Skagit Cnty., Pub. Hosp. Rev. Bonds, (Dist. No. 001), 5.75%, 12/1/35	Baa2	2,500,000	2,611,100
Tobacco Settlement Auth. of WA Rev. Bonds, 5.25%, 6/1/32	A-	1,275,000	1,339,783
WA State G.G. Bonds, Ser. C, 5.00%, 2/1/33 <sup>(T)</sup> WA State Hlth. Care Fac. Auth. Mandatory Put	Aa1	3,400,000	4,021,051
Bonds (7/1/22), (Fred Hutchinson Cancer Research Ctr.), Ser. B, 2.774%, 1/1/42	A+	1,700,000	1,719,550

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WA State Hith. Care Fac. Auth. Rev. Bonds (WA Hith. Svcs.), 7.00%, 7/1/39 (Prerefunded 7/1/19)	Baa1	1,000,000	1,021,160
(Overlake Hosp. Med. Ctr.), Ser. A, 5.00%, 7/1/36 WA State Hsg. Fin. Comm. Rev. Bonds, (Wesley Homes Lea Hill), 5.00%, 7/1/41 WA State Hsg. Fin. Comm. 144A Rev. Bonds (Bayview Manor Homes), Ser. A, 5.00%, 7/1/46 (Presbyterian Retirement Cmnty. Northwest), Ser. A, 5.00%, 1/1/36	A2	2,145,000	2,399,805
	B/P	500,000	506,460
	BB+/P	1,230,000	1,248,967
	BB+/F	1,175,000	1,234,432
			 18,447,179
Wisconsin (2.7%)			
Pub. Fin. Auth. Arpt. Fac. Rev. Bonds, (Sr. Oblig. Group), 5.25%, 7/1/28	BBB	350,000	377,682
Pub. Fin. Auth. Exempt Fac. Rev. Bonds, (Celanese U.S. Holdings, LLC), Ser. C, 4.30%, 11/1/30 Pub. Fin. Auth. Higher Ed. Fac. Rev. Bonds,	Baa3	300,000	304,839
(Gannon U.)	DDD .	250.000	264.152
5.00%, 5/1/47 5.00%, 5/1/42	BBB+ BBB+	250,000 1,090,000	264,153
5.00%, 5/1/42 Pub. Fin. Auth. Ltd. Oblig. Pilot 144A Rev. Bonds,	DDD+	1,090,000	1,155,607
(American Dream at Meadowlands), 7.00%, 12/1/50	BB/P	1,000,000	1,123,740
Pub. Fin. Auth. Retirement Fac. Rev. Bonds, (Southminster, Inc.), 5.00%, 10/1/43	BB/F	750,000	757,973
WI State HIth. & Edl. Fac. Auth. Rev. Bonds (Prohealth Care, Inc.), 6.625%, 2/15/39 (Prerefunded 2/15/19)	AAA/P	1,250,000	1,251,913
(St. John's Cmnty., Inc.), Ser. B, 5.00%, 9/15/45	BBB-/F	250,000	254,198
(St. Johns Cmntys. Inc.), Ser. A, 7.625%, 9/15/39 (Prerefunded 9/15/19)	AAA/F	1,350,000	1,398,263
WI State Pub. Fin. Auth Sr. Living Rev. Bonds, (Rose Villa, Inc.), Ser. A, 5.75%, 11/15/44	BB-/P	1,800,000	1,897,344
WI State Pub. Fin. Auth Sr. Living 144A Rev. Bonds, (Mary's Woods at Marylhurst), Ser. A, 5.25%, 5/15/37	BB/F	380,000	398,156
WI State Pub. Fin. Auth. 144A Rev. Bonds, (Church Home of Hartford, Inc.), Ser. A, 5.00%, 9/1/30	BB/F	945,000	978,869
TOTAL INVESTMENTS			10,162,737
Total investments (cost \$488,701,972)			\$499,622,294

#### Notes to the fund's portfolio

Unless noted otherwise, the notes to the fund's portfolio are for the close of the fund's reporting period, which ran from November 1, 2018 through January 31, 2019 (the reporting period). Within the following notes to the portfolio, references to "Putnam Management" represent

Putnam Investment Management, LLC, the fund's manager, an indirect wholly-owned subsidiary of Putnam Investments, LLC, references to "ASC 820" represent Accounting Standards Codification 820 Fair Value Measurements and Disclosures and references to "OTC", if any, represent over-the-counter.

(a) Percentages indicated are based on net assets of \$380,992,334.

The Moody's, Standard & Poor's or Fitch ratings indicated are believed to be the most recent ratings available at the close of the reporting period for the securities listed. Ratings are generally ascribed to securities at the time of issuance. While the agencies may from time to time revise such ratings, they undertake no obligation to do so, and the ratings do not

(RAT) necessarily represent what the agencies would ascribe to these securities at the close of the reporting period. Securities rated by Fitch are indicated by "/F." Securities rated by Putnam are indicated by "/P." The Putnam rating categories are comparable to the Standard & Poor's classifications. If a security is insured, it will usually be rated by the ratings organizations based on the financial strength of the insurer.

(NON) This security is non-income-producing.

The interest rate and date shown parenthetically represent the new interest rate to be paid and the date the fund will begin accruing interest at this rate.

(FWC) Forward commitment, in part or in entirety.

This security is valued by Putnam Management at fair value following procedures approved by the Trustees. Securities are classified as Level 3 for ASC 820 based on the securities' valuation inputs.

(17) Underlying security in a tender option bond transaction. This security has been segregated as collateral for financing transactions.

At the close of the reporting period, the fund maintained liquid assets totaling \$50,996,818 to cover tender option bonds.

144A after the name of an issuer represents securities exempt from registration under Rule 144A of the Securities Act of 1933, as amended. These securities may be resold in transactions exempt from registration, normally to qualified institutional buyers.

On Mandatory Put Bonds, the rates shown are the current interest rates at the close of the reporting period and the dates shown represent the next mandatory put dates. Rates are set by remarketing agents and may take into consideration market supply and demand, credit quality and the current SIFMA Municipal Swap Index, 1 Month US LIBOR or 3 Month US LIBOR rates, which were 1.43%, 2.51% and 2.74%, respectively, as of the close of the reporting period. The dates shown parenthetically on prerefunded bonds represent the next prerefunding dates.

The dates shown on debt obligations are the original maturity dates.

The fund had the following sector concentrations greater than 10% at the close of the reporting period (as a percentage of net assets):

Healthcare33.1%Education17.5Transportation15.4Utilities15.4

**Security valuation:** Portfolio securities and other investments are valued using policies and procedures adopted by the Board of Trustees. The Trustees have formed a Pricing Committee to oversee the implementation of these procedures and have delegated responsibility for valuing the fund's assets in accordance with these procedures to Putnam Management. Putnam Management has established an internal Valuation Committee that is responsible for making fair value determinations, evaluating the effectiveness of the pricing policies of the fund and reporting to the Pricing Committee.

Tax-exempt bonds and notes are generally valued on the basis of valuations provided by an independent pricing service approved by the Trustees. Such services use information with respect to transactions in bonds, quotations from bond dealers, market transactions in comparable securities and various relationships between securities in determining value. These securities will generally be categorized as Level 2.

Certain investments, including certain restricted and illiquid securities and derivatives are also valued at fair value following procedures approved by the Trustees. To assess the continuing appropriateness of fair valuations, the Valuation Committee reviews and affirms the reasonableness of such valuations on a regular basis after considering all relevant information that is reasonably available. Such valuations and procedures are reviewed periodically by the Trustees. These valuations consider such factors as significant market or specific security events such as interest rate or credit quality changes, various relationships with other securities, discount rates, U.S. Treasury, U.S. swap and credit yields, index levels, convexity exposures, recovery rates, sales and other multiples and resale restrictions. These securities

are classified as Level 2 or as Level 3 depending on the priority of the significant inputs. The fair value of securities is generally determined as the amount that the fund could reasonably expect to realize from an orderly disposition of such securities over a reasonable period of time. By its nature, a fair value price is a good faith estimate of the value of a security in a current sale and does not reflect an actual market price, which may be different by a material amount. Tender option bond transactions: The fund may participate in transactions whereby a fixed-rate bond is transferred to a tender option bond trust (TOB trust) sponsored by a broker. The TOB trust funds the purchase of the fixed rate bonds by issuing floating-rate bonds issued to third parties and allowing the fund to retain the residual interest in the TOB trust's assets and cash flows, which are in the form of inverse floating rate bonds. The inverse floating rate bonds held by the fund give the fund the right to (1) cause the holders of the floating rate bonds to tender their notes at par, and (2) to have the fixed-rate bond held by the TOB trust transferred to the fund, causing the TOB trust to collapse. The fund accounts for the transfer of the fixed-rate bond to the TOB trust as a secured borrowing by including the fixed-rate bond in The fund's portfolio and including the floating rate bond as a liability in the Statement of assets and liabilities. [cont.]

At the close of the reporting period, the fund's investments with a value of \$49,478,167 were held by the TOB trust and served as collateral for \$32,479,226 in floating-rate bonds outstanding. During the reporting period, the fund incurred interest expense of \$132,221 for these investments based on an average interest rate of 1.43%.

ASC 820 establishes a three-level hierarchy for disclosure of fair value measurements. The valuation hierarchy is based upon the transparency of inputs to the valuation of the fund's investments. The three levels are defined as follows:

**Level 1:** Valuations based on quoted prices for identical securities in active markets.

**Level 2:** Valuations based on quoted prices in markets that are not active or for which all significant inputs are observable, either directly or indirectly.

**Level 3:** Valuations based on inputs that are unobservable and significant to the fair value measurement. The following is a summary of the inputs used to value the fund's net assets as of the close of the reporting period:

Investments in securities: Municipal bonds and notes	Valuation inp Level 1 \$—	outs Level 2 \$499,611,257	Level 3 \$11,037	
Totals by level	\$—	\$499,611,257	 \$11,037	

At the start and close of the reporting period, Level 3 investments in securities represented less than 1% of the fund's net assets and were not considered a significant portion of the fund's portfolio. For additional information regarding the fund please see the fund's most recent annual or semiannual shareholder report filed on the Securities and Exchange Commission's Web site, www.sec.gov, or visit Putnam's Individual Investor Web site at www.putnaminvestments.com

#### Item 2. Controls and Procedures:

(a) The registrant's principal executive officer and principal financial officer have concluded, based on their evaluation of the effectiveness of the design and operation of the registrant's disclosure controls and procedures as of a date within 90 days of the filing date of this report, that the design and operation of such procedures are generally effective to provide reasonable assurance that information required to be disclosed by the registrant in this report is recorded, processed, summarized and

reported within the time periods specified in the Commission's rules and forms.

(b) Changes in internal control over financial reporting: Not applicable

#### Item 3. Exhibits:

Separate certifications for the principal executive officer and principal financial officer of the registrant as required by Rule 30a-2(a) under the Investment Company Act of 1940, as amended, are filed herewith.

#### **SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

#### Putnam Managed Municipal Income Trust

By (Signature and Title):

/s/ Janet C. Smith
Janet C. Smith
Principal Accounting Officer
Date: March 28, 2019

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By (Signature and Title):

/s/ Jonathan S. Horwitz Jonathan S. Horwitz Principal Executive Officer Date: March 28, 2019

By (Signature and Title):

/s/ Janet C. Smith Janet C. Smith Principal Financial Officer Date: March 28, 2019