

## Essex County, NJ

- 1 The Essex County Utilities Authority (Essex County, New Jersey), Solid Waste System Refunding Revenue Bonds (Secured by a County Deficiency Agreement with the County of Essex), Series 2016 (Bank-Qualified), 57,145,000, Dated: December 15, 2016 2 The Essex County Utilities Authority (Essex County, New Jersey) (Bank-Qualified), 54,500,000, Dated: November 3, 2016 (Secured by a County Deficiency Agreement with the County of Essex), Series 2016 (Bank-Qualified), 54,500,000, Dated: November 3, 2016 (Secured by a County Deficiency Agreement with the County of Essex), Series 2016 (Bank-Qualified), 54,500,000, Dated: November 3, 2016 (Secured by a County Deficiency Agreement with the County of Essex), Series 2016 (Bank-Qualified), 54,500,000, Dated: November 3, 2016 (Secured by a County Deficiency Agreement with the County of Essex).
- 3 County of Essex, New Jersey, Rond Anticipation Notes, Series 2016, \$58,550,000, Dated; Sentember 15, 2016, NAR
- Country of Essex, New Jersey, General Diligation Bonds, Series 2016, \$107,020,000 Consisting of General Improvement Bonds, Series 20166, \$125,000 and County College Bonds, Series 20166, \$125,000 and County College Bonds, Series 20160, \$1,250,000 and County Coll
- County of Essex. New Jersev. General Obligation Refunding Bonds. Series 2016, \$42,970,000 Consisting of General Improvement Refunding Bonds. Series 2016, \$23,920,000: County College Refunding Bonds. Series 2016, \$1,000 and County College Refunding Bonds. Series 2016, \$23,920,000: County College Refunding Bonds. Series 2016, \$21,000 and County College Refunding Bonds.
- 5 Bonds Act, P.L. 1971, c.12[Non-Callable], Series 20160, 54,010,000, Dated: May 12, 2016
  6 County of Essex, New Jersey, Bond Anticipation Notes, Series 2016, \$25,000,000, Dated: March 24, 2016 NAR
- 7 County of Essex, New Jersey, General Obligation Bonds, Series 2015, \$78.560,000 Consisting of General Improvement Bonds, Series 2015A, \$23.560,000 and County Vocational School Bonds, Series 2015B, \$55.000,000 (New Jersey School Bond Reserve Act. P. L. 1980. c. 72) and Bond Anticipation Notes, Series 2015. \$65.790,000, Dated: September 17, 2015

- 7 County or East Coast, well institute, authority (Lispean County), 19 County or East Coast, well institute, and the Coast Coast, in the Coast, in the Coast Coast, in the Coast, in the Coast Coast, in the Coast
- 10 Anticipation Notes, Series 2014, \$66,745,000 Dated: September 23, 2014
- 11 County of Essex, New Jersey, General Obligation Refunding Bonds, Series 2014, \$16,200,000, Dated: May 29, 2014
  12 The Essex County Improvement Authority (Essex County, New Jersey) Project Consolidation Revenue Bonds, Series 2013 (Refunding Project)(County Guaranteed) \$52,540,000, Dated: December 31, 2013

13 County of Essex, New Jersey, General Obligation Refunding Bonds, Series 2013, \$24,050,000, consisting of General Improvement Refunding Bonds, Series 2013A, \$20,395,000; County College Refunding Bonds, Series 2013B, \$2,640,000; County Vocational School Refunding Bonds, Series 2013C, \$1,105,000 (New Jersey School Bond Reserve Act, P.L. 1980, C. 72) Dated: November 26, 2013

- 14 County of Essex New Jersey General Obligation Bonds, Series 2013, \$5,500,000 Consisting of County Vocational School Bonds, Series 2013A (New Jersey School Bond Reserve Act, P.L. 1280, C.721, \$4,000,000; County College Bonds, Series 20138, \$750,000 and County College Bonds, Series 2013A (Page Bonds, Series 2013A) (
- 15 The Essex Countly Improvement Authority (Essex County, New Jersey), Country of Essex General Obligation Guaranteed Lease Revenue Refunding Bonds, Series 2012 (County Correctional Facility Project), 510,510,000, Dated: October 30, 2012
  16 Country of Essex, New Jersey, General Obligation Bonds, Series 2012, 510,500,000, Country College Bonds, Series 2012 (Southy College Bonds Act, P.L. 1971, L.2) 31,200,000, Dated: September 27, 2012
  17 Country of Essex, New Jersey, General Obligation Refunding Bonds, Series 2013, 510,530,000, Country College Bonds Act, P.L. 1971, L.2) 31,200,000, Dated: September 27, 2012
  17 Country of Essex, New Jersey, General Obligation Refunding Bonds, Series 2013, 510,530,000, Country College Bonds Act, P.L. 1971, L. 2) Dated: November 10, 2011
- The Ease County Improvement Authority (Essex County improvement Authority (Essex County of Essex General Obligation Guaranteed Lease Revenue Refunding Bonds, Series 2011 (County of Essex General Obligation Guaranteed Lease Revenue Refunding Bonds, Series 2013 (County of Essex General Obligation Guaranteed Lease Revenue Refunding Bonds, Series 2014) (County of Essex General Obligation Guaranteed Lease Revenue Refunding Bonds, Series 2014) (County of Essex General Obligation Guaranteed Lease Revenue Refunding Bonds, Series 2014) (County Social Services Assistance Series Series (Series 2014) (County Social Services Assistance Series 2014) (County Social Services Assistance Services 2014) (County Social Services Assistance Services 2014) (County Social Services Assistance Services 2014) (County Social Services 2014
- County of Essex. New Jersey. General Obligation Bonds. Series 2010. \$80,203.000. consisting of: General Improvement Bonds. Series 2010 (Cau-Exempt). \$60,250.000. County College Bonds. Series 2010 (Cau-Exempt). \$15.576.500. County College Bonds. Series 2010 (Cau-Exempt). \$20.000. County College Bonds. \$2 1971, C1] The Exempt, S117-6530, and General Diligious Control, New Jersey) Joint Waste System (exempt), 517-6530, and General Diligious Control State State

- 22 County of Essex, New Jersey, General Obligation Refunding Bonds, Series C of 2008 (Federally Taxable), \$32,635,000 Dated; October 7, 2008
- 23 Country of Essex, New Jersey General Obligation Bonds, Series 2008, \$15,000,000 Consisting of Country Cellege Bonds, \$4, 20, 2008.
  24 The Essex Country Improvement Authority (Essex Country, New Jersey) Airport Revenue and Refunding Bonds, Series 2008, 47, 2008.
- 25 County of Essex New Jersey Vocational School Bonds, Series 2007 (New Jersey School Bond Reserve Act, P.L. 1980, c.72), \$10,732,320 Dated: August 21, 2007
- 26 The Essex County Improvement Authority (Essex County, New Jersey) Project Consolidation Revenue Bonds, Series 2007 (Refunding Project) \$235,845,000, Dated: March 29, 2007 27 The Essex County Improvement Authority (Essex County, New Jersey) Project Consolidation Revenue Bonds, Series 2006 (Refunding Project) (Forward Delivery) \$41,865,000, Dated: September 7, 2006
- 27 The Essex County (Pains Authority (Essex County, New Jersey), Casp. 2000, Collaboration (Frequency County, New Jersey) (Essex County, New Jersey) (Essex

- County of Essex, New Jersey, General Obligation Bonds, Series 2004, \$88,300,000, comisting of: General Improvement Bonds, Series 2004A, \$7,200,000; County College Bonds, Series 2004, \$14,500,000; County College Bonds, Seri 32 November 3, 2004
- 33 The Essex County Improvement Authority (Essex County, New Jersey) Project Consolidation Revenue Bonds, Series 2004 (PMT) (County Guaranteed) \$13.285,000, Dated: October \$, 2004 34 County improvement Authority (Essex County, New Jersey) Airport Refunding Revenue Bonds, Series 2004 (AMT) (County Guaranteed) \$13.285,000, Dated: October \$, 2004 34 County improvement Authority (Essex County, New Jersey) Airport Refunding Revenue Bonds, Series 2004 (AMT) (County Guaranteed) \$13.285,000, Dated: October \$, 2004 34 County improvement Authority (Essex County, New Jersey) Airport Refunding Bonds (Early Retirement Incentive), Series 2003, [February 1, 2004 34, 2005 34] (County Improvement Authority (Essex County, New Jersey) Airport Refunding Revenue Bonds, Series 2004 (AMT) (County Guaranteed) \$13.285,000, Dated: October \$, 2004 34 County Improvement Authority (Essex County, New Jersey) Airport Refunding Bonds (Early Retirement Incentive), Series 2004 (AMT) (County Guaranteed) \$13.285,000, Dated: October \$, 2004 34 County Improvement Authority (Essex County, New Jersey) Airport Refunding Bonds (Early Retirement Incentive), Series 2004 (AMT) (County Guaranteed) \$13.285,000, Dated: October \$, 2004 34 County Improvement Authority (Essex County, New Jersey) Airport Refunding Bonds (Early Retirement Incentive), Series 2004 (AMT) (County Guaranteed) \$13.285,000, Dated: October \$, 2004 34 County Guaranteed \$, 2004 34 County Guar

- 36 The Essex County Improvement Authority (Essex County, New Jersey) General Obligation Guaranteed Lease Revenue Bonds, Series 1997A-I), \$11,000,000 Dated: July 1, 1997 37 The Essex County Improvement Authority (Essex County, New Jersey), County of Essex, Guaranteed Revenue Bonds, Series 1995; (Garden State Councer Center Project), \$2,000,000, Dated: Juny 15, 1997 | MAR)

Series 2016Waste. 2016Waster. 2016GO, 2016GO Ref. 2015A.B. 2014Water. 2014A-D. 2014GO Ref. 2013ABC, 2013BC, 2013BC, 2013BC, 2013BC, 2013BC, 2010BC, 2010BC, 2010BC, 2007Voc. 2007Con. 2006. 2005Ref. 2015A.B. 2014Water. 2014A-D. 2014A-D. 2014BC, 2013BC, 201

# Financial Information and Budget Highlights

## The 2017 Budget

The 2017 Budget, which includes a \$6.32 million increase in taxes, was adopted by the Board of Chosen Freeholders on April 19. 2017. The 2017 Budget continues the hiring freeze instituted in 2009. These policies affect all County Departments and Constitutional Offices.

# **Property Valuations**

Series: 2016/Waste, 2016/Waste, 2016/00, 2016/00 Ref, 2015/AB, 2014/AD, 2014/OD Ref, 2013/ABC, 2013/ABC, 2013/ABC, 2013/ABC, 2011/ABC, 2011, 2010/A-F, 2009, 2008, 2008/C, 2007 VOC, 2007/CON, 2006, 2006 Ref, 2005/AB, 2005/Cons, 2005/AB, 2005/Cons, 2004/A-D, 2004/A-D, 2004/A-D, 2014/BD, 2013/ABC, 2013/ABC, 2013/ABC, 2011/ABC, 2011/ABC,

Fiscal Years Ended December 31,	
Type of Real Property	2016
Residential	54,525,748,617
Apartment	3,743,608,450
Commercial	12,722,107,558
Industrial	3,082,228,150
Farm	3,413,400
Vacant Land	1,032,553,280
Sub-Total	75,109,659,455
Exempt	19,886,061,172
Total of Real Property	94,995,720,627

Series: 2016Waste, 2016Waste, 2016Waste, 2016O0, 2016G0 Ref, 2015AB, 2014Water, 2014A-0, 2014G0 Ref, 2013ABC, 2013RC, 2013, 2012, 2012AB, 2011ABC, 2011, 2010A-F, 2009, 2008, 2008C, 2007 VOC, 2007CON, 2006, 2006 Ref, 2005AB, 2005Cons, 2005A GO, 2004A-0, 2004, 2003, 1998, 1997

Net Assessed and Equalized Valuations of Real and Personal Tangible Property

Fiscal Years Ended December 31,	
Net Assessed Valuation:	2016
Real Property	75,109,659,455
Personal Tangible Property	167,151,822
Total Net Assessed Valuation	75,276,811,277
Percent Increase (Decrease) Over Previous Year	-1.64%
Equalized Valuation	83,791,332,909
Percent Increase (Decrease) Over Previous Year	1.30%

## Tax Information

Series 2016Waste, 2016Waste, 2016GO, 2016GO Ref, 2015AB, 2014Waster, 2014A-D, 2014GO Ref, 2013ABC, 2013BC, 2013, 2012, 2012AB, 2011ABC, 2011, 2010A-F,2009, 2008, 2007 VOC, 2007CON, 2006, 2006 Ref, 2005AB, 2005Cons, 2005A GO, 2004A-D, 2004, 2003, 1998, 1997

Tax Rates, Tax Apportionments and Tax Collections

Tax Collection

Tax Collection

Parcet

Tax Collection

Parcet

Year	Tax Rate	Tax Apportionment	Tax Collection	Percent
2016	5.069	421,101,000.00	421,101,000.00	100.00%

Series 2014Water, 2014A-D, 2014GO Ref, 2013ABC, 2013BC, 2013, 2012, 2012AB, 2011ABC, 2011, 2010A-F, 2009, 2008, 2008C, 2007 VOC, 2007CON, 2006, 2006 Ref, 2005AB, 2005Cons, 2005A GO, 2004A-D, 2004, 2003, 1998, 1997

Added and Omitted Tax Levies			
Year	Added Taxes	Omitted Taxes	Total
2016	2.116.113.14	277.969.08	2.394.082.22

Series 2016Waste, 2016Waste, 2016G0, 2016G0, 2016G0, 2016G0 Ref, 2015AB, 2014Waster, 2014A-0, 2014G0 Ref, 2013ABC, 2013BC, 2013BC, 2013, 2012, 2012AB, 2011ABC, 2011, 2010A-F, 2009, 2008, 2008C, 2007 VOC, 2007CON, 2006, 2006 Ref, 2005AB, 2005Cons, 2005A G0, 2004A-0, 2004, 2003, 1998, 1997 Comparison of Tax Levy to Annual Debt Service Requirements

		Debt Service	Percent of Debt
Year	Tax Levy	Requirements	Service to Tax Levy
2015	413,249,000.00	99,742,826.00	24.14%
2016	421 101 000 00	105 878 138 00	25 1/96

Series 3.016Wate, 2016Word, 2016Word, 2016Word, 2016G0 Ref, 2015A8, 2014Word, 2014G0 Ref, 2015A8, 2014Word, 2014G0 Ref, 2015A8, 2014A8, 2011A8C, 2011, 2012A8, 2011A8C, 2011, 2016A F, 2009, 2008, 2008, 2007 VDC, 2007CON, 2006, 2006 Ref, 205A8, 2005Cons, 2005A GO, 2004A-O, 2004, 2003, 1998, 1997 Current Fund Revenue Sources per Annual Adoption Burgers

ia nevenue source.	per Annaar Aaoptea Baaget			
	Budget	Revenue Surplus	Miscellaneous	Amount to be
Year	Requirement	Appropriated	Revenues	Raised by Taxation
2016	769,140,000.00	12,000,000.00	336,039,000.00	421,101,000.00
2017	697 750 000 00	20,000,000,00	250 222 000 00	427 418 000 00

Series 2016Waste, 2016Waste, 2016GO, 2016GO, 2016GO Ref, 2015AB, 2014Waster, 2014AD, 2014AO Ref, 2013ABC, 2013BC, 2013BC, 2012AB, 2011ABC, 2011, 2010A-F, 2009, 2008, 2008C, 2007 VOC, 2007CON, 2006, 2006 Ref, 2005AB, 2005Cons, 2005A GO, 2004A-D, 2004, 2003, 1998, 1997

Current Fund Balances and Amounts Utilized in Succeeding Years Budget

	Balance as of	Utilized in Budget of Su	cceeding Year
Year	31-Dec	Amount	Percent
2016	97,189,777.00	20,000,000.00	20.57%
2017		20,000,000.00	

#### Debt Information

Series 2016Waste, 2016Waste, 2016GO, 2016GO Ref, 2015A,B, 2014Water, 2014A-D, 2014GO Ref, 2013ABC, 2013BC, 2013BC, 2013ABC, 2011ABC, 2010A-F, 2009, 2008, 2007Voc, 2007CON, 2006, 2006Ref, 2005AB, 2005 Cons, 2005A GO, 2004A-D, 2004, 2003, 1998, 1997

Debt Information

iscal Year Ended December 31, 2016

## **General Information**

The County's debt incurring power is limited by State statute to 2.00% of the State average equalized valuation, determined annually by the State, of all taxable property within the County. See the sub caption "Statutory Debt and Borrowing Power" below. Unless the New Jersey Local Finance Board allows otherwise, the County's general purpose bonds must be issued in serial form, with the first principal payment to occur within one year after the date of issuance and the final maturity not to exceed the useful life of the capital improvement. General purpose bonds must be sold on a competitive bid basis. Refunding bonds may be sold on a negotiated basis without the approval of the New Jersey Local Finance Board provided that the following conditions are met: (1) the present value savings is at least three percent, (2) The new debt service shall be structured such that no annual debt service payment is more than it was under the original debt service schedule, (3) the final maturity of the refunding bond does not extend past the maturity date of the refunded debt, and (4) the debt savings are substantially level across the life of the refunding. Notes may be sold on a competitive or on a negotiated, or private sale, basis for a period of one year, and may be renewed annually but generally not to exceed the first day of the fifth month following the close of the tenth fiscal year next following the date of original issuance of such

Laws creating certain authorities authorize a local governmental unit, such as the County to enter into a service contract or deficiency agreement to, in effect, guarantee debt service payments on debt issued by the authority (a "deficiency agreement"). Neither the debt of the authority nor payments pursuant to the deficiency agreement are included in a local governmental unit's statutory gross debt. In addition, laws creating certain authorities authorize a local governmental unit, such as the County, to directly guarantee debt service payments on debt issued by the authority. The principal amount of such directly guaranteed debt is included in the local governmental unit's statutory gross debt but is deducted for purposes of calculating net debt if the authority was, in effect, self-sustaining during the preceding fiscal year. Furthermore, laws creating certain authorities authorize a local governmental unit, such as the County, to enter into multi-year lease agreements with the authority. Annual lease payments pursuant to any such agreement are not included in the local governmental unit's statutory gross debt.

## Statutory Debt and Borrowing Power

The following tables set forth information, as of December 31, 2016, on the amounts of the County's outstanding debt and outstanding net debt, outstanding debt guaranteed by the County or issued for County purposes, statutory debt, and statutory borrowing power. After the dates noted, the debt information and statistics noted on the following pages may vary from the figures shown because of either a reduction or an increase in the amounts of debt for each of the political entities noted.

Series 2013, 2011, 2009, 2007CON, 2006, 2004
Outstanding Debt and Outstanding Net Debt

Fiscal Year Ended December 31, 2016				•
Purpose	Interest Rate	Dated Date	Final Maturity Date	Amount Outstanding
County Bonds Outstanding chapter 12	<del></del>			
ECC Series 2004C	3.50-4.00	11/3/2004	10/1/2019	1,005,000.00
ECC Series 2004C ECC Series 2008B	3.50-4.00	6/26/2008	3/1/2023	1,260,000.00
ECC Series 2010D Refunding	3.5-5.00	6/23/2010	8/1/2025	310,000.00
	- 5			
ECC Series 2011C Refunding		11/10/2011	6/1/2017	160,000.00
ECC Series 2012B	2.00-4.00	9/19/2012	9/1/2022	750,000.00
ECC Series 2013C	3.00-3.25	9/25/2013	9/25/2013	525,000.00
ECC Series 2014D	1.5-3.00	9/23/2014	9/1/2024	2,000,000.00
ECC Series 2016 1D	5	9/15/2016	9/1/2026	1,250,000.00
ECC Series 2016D	5	5/12/2016	3/1/2025	4,010,000.00 11,270,000.00
County College Bonds, Series 2008A	3.50-5.00	6/26/2008	3/1/2023	1,260,000.00
County College Bonds, Series 2010C	5	6/10/2010	8/1/2025	5,495,000.00
County College Bonds, BABs Series 2010F	5.90-6.15	6/10/2010	8/1/2025	8,600,000.00
County College Refunding Bonds, series 2011B	4	11/10/2011	6/1/2017	45,000.00
County College Bond, 2012A	2.00-4.00	9/19/2012	9/1/2022	750,000.00
County College Refunding Bonds, Series 2013B	4	11/26/2013	10/1/2017	1,345,000.00
County College Bonds, Series 2013B	3.00-3.25	9/25/2013	9/1/2023	525,000.00
County College Bonds, Series 2014C	1.50-3.00	9/23/2013	9/1/2024	2,000,000.00
County College Bonds, Series 2016C	5	9/15/2016	9/1/2026	1,250,000.00
County College Bonds, Series 2016C		5/12/2016	3/1/2025	8,140,000.00
		5/12/2016	3/1/2023	29,410,000.00
County College: G.O. Refunding Series 2005A	5	6/26/2005	6/1/2016	0.00
G.O. Bonds, Series 2010A		6/10/2010	8/1/2025	17,880,000.00
Build America Bonds Series 2010E	5.9-6.15	6/10/2010	8/1/2025	37,550,000.00
General Improvement Refunding Bonds, Series 2013A	4.00-5.00	11/26/2013	10/1/2019	15,595,000.00
General Improvement Refunding Bonds, Series 2014	4	5/29/2014	5/1/2022	14,170,000.00
General Improvement Bonds, Series 2014A	1.50-3.00	9/23/2014	9/1/2029	18,240,000.00
General Improvement Bonds, Series 2015 1A	2.00-3.00	9/2/2015	9/1/2027	21,950,000.00
General Improvement Bonds, Series 2016 1A	4.00/-5.00	9/1/2016	9/1/1935	24,520,000.00
General Improvement Bonds, Series 2016 1A	4.00/-5.00	5/12/2016	3/1/2025	23,920,000.00
Vocational School:	<del></del>			173,825,000.00
County Vocational Bonds, Series 2007	4.125-5.00	8/14/2007	12/15/2022	1,065,000.00
County Vocational Bonds, Series 2010B	4.115 5.00	6/10/2010	8/1/2025	845,000.00
County Vocational Bonds, Series 2013A	3.00-4.00	9/25/2013	9/1/2028	3,345,000.00
County Vocational Bonds, Series 2013C	2	11/26/2013	10/1/2020	820,000.00
County Vocational Bonds, Series 2013c	1.50-3.00	9/23/2014	9/1/2029	1,880,000.00
County Vocational School Bonds, Series 2015	2.00-4.00	9/1/2015	9/1/2045	53,600,000.00
County Vocational Bonds, Series 2016 1B	2.00-3.00	9/1/2016	9/1/2046	80,000,000.00
County Vocational Bonds, Series 2016B	3.00/-5.00	4/13/2016	4/13/2025	6,900,000.00
TOTAL				148,455,000.00
Essex County Improvement Authority Pooled Govermental Loan Program:				
General Improvement Series 2010	Variable	6/3/2010	7/1/2025	2,565,000
	Variable	6/1/2014	6/1/2019	
General Improvement Series 2014 1-A				1,599,000
General Improvement Series 2015A	Variable	6/24/2015	6/1/2025	3,150,000
General Improvement Series 2016AA	Variable	6/1/2017	12/1/2022	5,185,000 12,499,000
Green Trust Loan:				,,
DEP Loan (Verona Dam)	2	10/23/2009	4/23/2028	340,482.34
DEP Loan (Diamond Mill Pond Project)	2	7/30/2013	4/29/2033	388,901.39
				729,383.73
Employee Retirement Service:				
G.O Refunding Bonds, Series 1989 A		1/15/1989	8/15/2019	3,500,000
Series 2003 G.O. Pension Refunding (Ta	4.75	6/25/2003	4/1/2033	52,585,000
Series 2008C (Taxable)	6	10/7/2008	12/1/2017	3,880,000
	<u></u>			59,965,000.00
Total Net Outstanding County Debt				436,153,383.73

# Series 2013, 2011, 2009, 2007CON, 2006, 2004 Outstanding Debt Guaranteed by the County or Issued for County Purposes

Fiscal Year Ended December 31, 2016				
Issue Name	Interest Rate	Dated Date	Final Maturity Date	Amount Outstanding
Under Lease or Deficiency Agreements				
2004A	5.5	9/2/2004	10/1/2030	\$93,240,000.0
2005 (Refunding Project)	4.00-4.375	8/15/2005	12/15/2027	\$7,235,000.0
Series 2005 (Sportsplex Project)	4.00-5.10	9/13/2005	10/1/2029	\$2,465,000.0
2006 (Refunding Project)	5.25	9/7/2006	12/15/2024	\$22,865,000.00
2007 (Refunding Project)	5.00-5.25	3/29/2007	12/15/2023	\$222,855,000.00
Bonds, Series 2011 (Social Services)	3.00-5.00	4/13/2011	10/1/2027	\$2,895,000.00
Bonds, Series 2011 (NJPAC)	3	4/13/2011	10/1/2018	\$740,000.00
Bonds, Series 2011 (Riverbank)	3.00-4.00	4/13/2011	10/1/2018	\$900,000.00
Bonds, Series 2012 (Correctional)	4	10/30/2012	10/1/2017	\$3,605,000.00
2013	3.00-5.00	12/31/2013	12/15/2020	\$26,170,000.00
Bonds, Series 2014	1.50-5.00	9/18/2014	10//01//2022	\$43,115,000.00
Total Bonds and Notes Payable by the County Under Lease or Deticiency Agreements (A)				\$426,085,000.00
Bonds Payable Under Deficiency Agreement and Guaranteed by the County				
Series 2009 (County-Guaranteed)	4.00-5.00	2/10/2009	10/1/2022	3,610,000
Total Bonds Payable Under Deficiency Agreement and Guaranteed by the County (B)				3,610,000
Total Bonds and Notes Payable by the County Under Lease or Deficiency Agreements (Total (A)+(B))				
				429,695,000
Bonds Guaranteed by the County and Payable from Other Sources				
2007 (AMT) (County-Guaranteed)	4.00-4.50	10/11/2007	11/1/2032	5,980,000
2014 (AMT) (County Guaranteed)	2.00-3.00	9/18/2014	9/1/2021	1,385,000
	<u></u>			7,365,000
Total ECIA ((A)+(B)+(C))				437,060,000
The Essex County Utilities Authority				
Bonds, Series 2006A and 2006B	4.00-5.58	3/23/2006	10/1/2022	13,310,000
Bonds, Series 2009	2.50-5.00	5/21/2009	4/1/2022	31,510,000
Water System Project Notes (Series 2014)	3	11/6/2014	11/4/2016	4,500,000
Total ECUA				49,320,000

# Series 2013, 2011, 2009, 2007CON, 2006, 2004 **Statutory Debt**

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Fiscal Year Ended December 31, 2016			
	Gross Debt	Deductible Debt	Net Debt
General Purpose:	\$173,825,000	\$80,880,000.00	\$92,945,000.00
Bonds Issued	40,680,000	11,270,000.00	29,410,000.00
G.O. County College Bonds	59,965,000	52,585,000.00	7,380,000.00
ERS Bonds	148,455,000		148,455,000.00
Vocational School Bonds	729,384	' <u></u>	729,384.00
Green Trust Loans	12,499,000	' <u></u>	12,499,000.00
Total	436,153,384	' <u></u>	
Bond Anticipation Notes Issued	58,550,000		58,550,000.00
Debt Authorized but Unissued	63,697,306	_	63,697,306.00
County Guaranteed Debt:			
Essex County Improvement Authority	437,060,000.00	437,060,000.00	
Essex County Utilities Authority	49,320,000.00	49,320,000.00	
Total Gross Statutory Debt	\$1,044,780,690	, ,	
Total Statutory Deductions		\$631,115,000.00	
Total Net Statutory Debt	•	_	413,665,690.00

Series 2013, 2011, 2009, 2007CON, 2006, 2004 **Statutory Borrowing Power** Fiscal Year Ended December 31, 2016

Three Year Average Equalized	\$81,977,548,744.00
Statutory Borrowing Power	1,639,550,974.88
Statutory Net Debt	413,665,689.13
Remaining Statutory Borrowing Power	1,149,820,285.75
Ratios:	·
Statutory Net Debt to State Equalized Valuation	0.49%
Statutory Net Debt Per Capita	624.68

Series 2016Waste, 2016Waste, 2016GV act, 2015A, 8, 2014Water, 2014A-D, 2014A-D, 2014A-D, 2014A-D, 2014BC, 2013BC, 2013, 2012, 2012AB, 2011ABC, 2011, 2010A-F, 2008, 2008C, 2007 Voc, 2007CON, 2006Ref, 2005AB, 2005Con, 2005A GO, 2004A-D, 2004, 2003, 1998, 1997

Schedule of Debt Service Requirements on the County's Tax Supported Debt

Fiscal Year Ended December 31,

		Net Outstanding County Debt		Ess	ex County Improvement Authority			
Period Ending	Principal	Interest	Debt Service	Principal	Interest	Debt Service	Total Debt Service	Maturing
12/31/2016								
12/31/2017	\$32,874,723.21	\$18,676,971.96	\$51,551,695.17	\$36,050,000.00	\$22,101,410.02	\$58,151,410.02	109,703,105.19	
12/31/2018	31,610,662.34	17,444,124.82	49,054,787.16	39,445,000.00	20,461,467.52	59,906,467.52	108,961,254.68	
12/31/2019	32,376,620.36	16,109,666.82	48,486,287.18	41,745,000.00	18,539,630.02	60,284,630.02	108,770,917.20	24.70%
12/31/2020	23,214,597.62	14,291,939.56	37,506,537.18	53,750,000.00	16,411,405.02	70,161,405.02	107,667,942.20	
12/31/2021	23,355,594.54	13,157,486.40	36,513,080.94	57,705,000.00	13,636,248.76	71,341,248.76	107,854,329.70	
12/31/2022	23,056,611.49	12,208,969.43	35,265,580.92	61,715,000.00	10,646,755.00	72,361,755.00	107,627,335.92	
12/31/2023	36,027,648.89	10,997,732.07	47,025,380.96	50,180,000.00	7,447,683.00	57,627,683.00	104,653,063.96	
12/31/2024	33,573,707.12	9,776,153.82	43,349,860.94	17,485,000.00	4,880,945.00	22,365,945.00	65,715,805.94	68.55%
12/31/2025	33,534,786.63	7,905,605.31	41,440,390.94	13,060,000.00	3,944,990.00	17,004,990.00	58,445,381.94	
12/31/2026	12,015,887.85	5,992,746.84	18,008,634.69	12,680,000.00	3,242,352.50	15,922,352.50	33,930,987.19	
12/31/2027-2046	154,512,543.68	45,335,847.32	199,848,391.00	46,775,000.00	6,347,630.00	53,122,630.00	252,971,021.00	100.00%
Totals	\$436,153,383.73	\$171,897,244.35	\$608,050,627.08	\$430,590,000.00	\$127,660,516.84	\$558,250,516.84	\$1,166,301,144.92	

iscal Year Ended Decem	nual debt statement of the County	
See separate filing		

Fiscal Year Ended December 31,					
System	2016				
PERS	17,229,299.00				
PFRS	20,816,201.00				
Social Security	16,640,000.00				
Non-Contributory	260,000.00				
Total	54,945,500.00				

Series 2011
PROPOSED SIX-YEAR CAPITAL IMPROVEMENT PROGRAM
Fiscal Year Ended December 31, 2016

Ended December 31, 2016	
<u>Year</u>	Annual Funding Requirement
2016	20,000,000.00
2017	20,000,000.00
2018	20,000,000.00
2019	20,000,000.00
2020	20,000,000.00
2021	20,000,000,00

Series 2011

	Six Year	2017 Budget	2017 Capital		
Project	Estimated Total Cost	Appropriation Fund	Improvement Fund	Det Authorized	Future Years Funding
ospital Center Complex, Rehabilitation	\$800,000	\$0	\$0	\$0	\$800,0
nter-County Movable Bridges	1,250,000	0	0	0	1,250,0
azardous Material Chemical Control	5,500,000	0	25,000	475,000	5,500,0
ounty Bridge/Culvert Improvements	6,020,500	0	77,000	1,573,000	6,020,5
raffic Signal Improvements	5,974,500	0	38,000	762,000	5,974,5
arious County Building Improvements	21,650,000	3,850,000	185,000	3,665,000	17,800,0
.O.R./Court House Improvements	6,250,000	0	0	0	6,250,0
ail/Jail Annex Rehabilitation	13,000,000	0	0	0	13,000,0
ighway Rehabilitation	9,300,000	4,000,000	195,000	3,805,000	5,300,0
ighway Safety	4,200,000	400,000	0	0	4,200,0
arks Rehabilitation	19,990,000	9,400,000	448,000	8,952,000	10,590,0
apital Equipment	8,315,000	0	0	0	8,315,0
andicapped Access Improvements	1,250,000	0	0	0	1,250,0
ransportation Improvements	3,750,000	0	0	0	3,750,0
outh House Facility Improvements	1,250,000	0	0	0	1,250,0
ounty College/Vo-Tech School Improvements	11,500,000	2,750,000	72,000	2,678,000	8,750,
otal All Projects	\$120,000,000	\$20,000,000	900,000	\$19,100,000	\$100,000,0

Series 2011
Residential Housing Units by Building Permits
Fiscal Year Ended December 31,

2016

<u>Total Units</u> <u>Total Cost</u> 2403 242842

Series 2011  Demographic Statistics  Fiscal Year Ended December 31, 2016								
Population Trend	2016							
County State	2016 796,914 8,944,469							
Population Density	Square Miles	2016						
County State		6091.27 1017.4						
Population Characteristics By Age				Population By	Age Groups			
County State	0-4 Years 53,634 532,519	5-13 Years 53,787 553,996	14-24 Years 190,984 1,729,026	24-44 Years 206,236 2,322,025	45-64 Years 193,879 2,493,400	83,768 1,118,543	14,626 194,960	Total 796,914 8,944,469
Series 2011								
Trend of Employment and Unemployn	nent							
<u>Year</u> 2016	County State U.S.	378,427.00 4,538,105.00 157,130,000.00	Employment 355,346.00 4,320,996.00 148,834,000.00	Unemployment 8,296,000.00 23,081.00 8,296,000.00	6.1 4.7 5.3			
Series 2011 LARGEST EMPLOYERS								
Fiscal Year Ended December 31, 2016		Pusiness	Location	Approximate				
Employer St. Barnabas Health Care System		Acute Care Hospital	<u>Location</u> Livingston	Employment 21,000				
Rutgers University-Newark Campus Verizon		University Communications	Newark Newark	15,500 15,000				
New Jersey Transit Public Service Electric & Gas		Transportation Diversified energy	Newark Newark	11,500 10,000				
Prudential Ins. Co. of America Montclair State University		Insurance University	Newark, Roseland Montclair	8,743 7,525				
Newark Board of Education		Board of Education	Newark	7,050				
Gateway Group One Automatic Data Processing		Security Customer care Computer Software	Newark Roseland	6,250 5,649				
City of Newark		Government	Newark	4,000				
Series 2011 MAJOR REAL PROPERTY TAXPAYERS Fiscal Year Ended December 31, 2016								
Taxpayer Short Hills Assoc. LLC		Business Mall	Location Millburn	Assessed Valuation \$930,819,000				
Prudential Financial, Co of America		Insurance	Roseland	175,271,300				
Livingston Mall Corp		Mall	Livingston	132,000,000				
Anheuser Busch Inc		Brewery		125,000,000				
			Newark					
Prudential Financial, Inc.		Office Building	Roseland	115,950,400				
Prudential Financial, Inc		Office Building	Newark	108,535,600				
NJBT Co.		Office Building	Newark	102,454,900				
PB Nutcliff Master, LLC		Pharmaceutical	Nutley	98,463,900				
2 Gateway Center Partners, LLC		Office Building	Newark	92,750,000				
80 Park Place SPE, LLC		Office Building	Newark	114,581,600				
Total Assessed Valuation of Major Taxpayers Assessed Valuation of Real Property in the Coun	iti			1,995,826,700.00 \$78,162,538,965.00				
Series 2011 DIRECT, OVERLAPPING AND UNDERLY	ING DEBT ISSUED AND OUT	<b>ISTANDING</b>						
Fiscal Year Ended December 31, 2016		Debt Out	tstanding	Debt Per		Debt as % of Equa		
Direct Debt		Gross	Net	Gross	<u>Net</u>	Gross	<u>Net</u>	
General Purpose County College		\$517,720,680.00 40,680,000.00	\$460,320,690.00					
Subtotal Direct Debt		558,400,680.00	489,730,690.00	\$700.70	\$614.53	0.68%	0.59%	
Overlapping Debt: ECIA:								
Payable by the County Under Lease								
or Deficiency Agreement and Guaranteed by the County		430,590,000.00	430,590,000.00					
Payable from other sources ECUA		7,365,000.00 49,515,000.00	0.00					
Subtotal Overlapping Debt		487,470,000.00	430,590,000.00					
Subtotal Direct and Overlapping Debt Underlying Debt:		1,045,870,690.00	920,320,690.00	\$1,312.40	\$1,154.85	1.27%	1.12%	
Municipal School		1,156,667,182.00 631,150,915.00	1,156,667,182.00					
Self-supporting:								
Municipal Utility Commissions:		418,853,286.00						
PVSC North Jersey		115,593,061.00 15,626,886.00						
Subtotal Underlying Debt		2,337,891,330.00	1,156,667,182.00					
Total Direct, Overlapping and Underlying Debt		3,383,762,020.00	2,076,987,872.00	\$4,246.08	\$2,606.28	4.12%	2.53%	

Series 2011
SELECTED ECONOMIC AND DEBT INFORMATION ON MUNICIPALITIES IN ESSEX COUNTY

Fiscal Year Ended December 31, 2016												
Advantation Plan	Barandarian	Household Income		N-4 N-1 N	T1	Corres Barba	Municipal Debt	Call Canada Nama Bala	Outstanding Debt	e-tt	S	Commissions
Municipality	Population		Unemployment Rate	Net Valuation	Tax Levy	Gross Debt		Self Liquidating Debt	Net Direct Debt	School	County	
Belleville	17,000.00	48,576.00	4.8	2,813,266,309	360,276,380	28,838,928	25,988,928	2,850,000	24,756,713		10,944,487	6,464,455
Bloomfield	48,000.00	53,289.00	4.8	4,258,122,509	476,724,900	118,782,153	86,805,871	7,331,282	66,690,871	24,645,000	16,911,890	7,441,730
												1,639,145
Caldwell	7,800.00	100,884.00	5.6	1,111,963,138	128,315,500	32,317,407	10,746,055	12,637,540	8,931,811	10,451,917	3,984,315	
Cedar Grove	12,000.00	78,863.00	5.6	2,330,420,358	200,076,400	46,484,000	10,852,000	8,468,000	10,852,000	25,926,000	8,738,210	257,984
E. Orange	65,000.00	36,978.00	6.7	2,729,633,486	1,050,129,460	122,233,384	58,820,420	63,412,965	58,820,420		13,348,162	
Essex Fells	2,100.00	148,173.00	5.6	764,401,837	108,553,400	18,882,881	3,084,700	2,268,181	3,004,501	13,530,000	2,854,275	
Fairfield	7,100.00	97,361.00	5.6	3,041,679,929	199,744,300	19,376,016	9,150,594	2,879,850	9,560,613	7,345,572	10,559,680	
Glen Ridge	7,700.00	160,511.00	5.6	1,565,063,528	113,610,610	13,010,107	5,196,825	4,283,283	5,196,825	3,530,000	5,432,991	1,549,716
												172,680
Irvington	61,000.00	38,165.00	6.9	2,050,716,539	294,974,552	106,926,688	73,329,979	0	70,674,979	33,596,709	10,422,734	
Livingston	27,000.00	137,665.00	3	7,714,930,277	1,160,028,900	224,468,325	97,395,476	31,552,000	80,933,409	95,520,849	27,738,463	
Maplewood	24,000.00	116,014.00	5.6	3,495,750,869	812,834,900	67,433,732	44,047,377	997,000	35,992,240	22,389,355	13,537,773	
Milburn	20,000.00	130,848.00	5.6	9,504,080,275	514,449,100	80,373,743	21,021,743	7,125,000	21,021,743	52,227,000	32,554,108	
Montclair	39,000.00	73,647.00	3.6	6,805,822,663	672,102,200	178,082,793	70,942,697	30,020,982	72,870,022	82,598,080	25,043,221	8,567,272
Newark	280,000.00	30,966.00	7.6	13,772,278,770	11,256,046,500	666,608,729	411,457,524	188,363,205	279,685,489	66,788,000	62,515,946	1,151,201
N. Caldwell	6,800.00	117,395.00		1,729,088,755	173,837,500	26,965,575	9,098,127	637,448	9,098,127	17,230,000	6,148,371	78,941,383
												11,760,828
Nutley	27,000.00	85,035.00	4.1	3,604,380,885	200,664,599	59,593,799	15,811,516	3,262,283	14,713,847	40,865,000	14,477,253	6,598,540
												645,048
Orange	33,000.00	44,645.00	7.2	1,451,813,628	449,381,572	43,202,410	14,529,606	28,350,884	15,427,377	321,921	5,582,660	6,029,967
Roseland	5,800.00	82,499.00	5.6	1,818,332,621	57,807,880	25,068,023	14,146,400	1,025,550	14,146,400	9,896,074	7,080,934	
S. Orange	17,000.00	123,373.00	5.6	2,624,997,635	669,595,300	94,303,545	48,680,545	6,660,000	48,696,210	38,963,000	9,912,260	
Verona	14,000.00	100,366.00	5.6	2,319,650,956	262,963,400	79,738,400	32,141,468	9,516,933	38,080,000	32,141,468	8,403,186	
W. Caldwell	11,000.00	83,396.00	5.6	2,303,581,422	134,599,564	47,181,478	21,207,390	7,210,899	21,132,390	18,763,189	8,770,230	· · · · · · · · · · · · · · · · · · ·
W. Orange	45,000.00	90,251.00	4.2	5,981,356,520	589,344,255	106,631,722	72,109,941	0	72,209,941	34,421,781	23,329,175	
Total or Average	777,300.00	1,978,900.00		83,791,332,909	19,886,061,172	2,206,503,838	1,156,565,182	418,853,285	982,495,928	631,150,915	328,290,324	131,219,949