BLACKROCK MUNIYIELD NEW JERSEY FUND, INC. Form N-Q December 21, 2012
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 811-06570
Name of Fund: BlackRock MuniYield New Jersey Fund, Inc. (MYJ)
Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809
Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock MuniYield New Jersey Fund, Inc., 55 East 52 nd Street, New York, NY 10055
Registrant's telephone number, including area code: (800) 882-0052, Option 4
Date of fiscal year end: 07/31/2013
Date of reporting period: 10/31/2012

Item 1 – Schedule of Investments

Schedule of Investments October 31, 2012 (Unaudited)

(Percentages shown are based on Net Assets)

Municipal Danda	Par (000)	Value
Municipal Bonds New Jersey — 123.8%		
Corporate — 4.8%		
Middlesex County Improvement Authority, RB, Senior Heldrich Center Hotel, Series A, 5.00%, 1/01/20	\$655\$	422,036
New Jersey EDA, Refunding RB, New Jersey American Water		
Co., Inc. Project, AMT:		
Series A, 5.70%, 10/01/39	2,925	3,277,521
Series B, 5.60%, 11/01/34	2,430	2,770,953
Salem County Pollution Control Financing Authority, Refunding RB, Atlantic City Electric, Series A, 4.88%, 6/01/29	4,550	5,052,093
		11,522,603
County/City/Special District/School District — 15.5%		
Bergen County Improvement Authority, Refunding RB, Fair Law	n	
Community Center, Inc. Project, 5.00%, 9/15/34	1,470	1,759,825
City of Margate City New Jersey, GO, Refunding, Improvement,		
New Jersey:		
5.00%, 1/15/26	1,200	1,401,768
5.00%, 1/15/27	845	979,735
City of Perth Amboy New Jersey, GO, CAB, Refunding (AGM):		
5.00%, 7/01/33	1,575	1,714,734
5.00%, 7/01/34	1,925	2,083,562
County of Hudson New Jersey, COP, Refunding (NPFGC),	1,500	1,731,525
6.25%, 12/01/16 Essay County Improvement Authority Refunding RR. Project		
Essex County Improvement Authority, Refunding RB, Project Consolidation (NPFGC):		
5.50%, 10/01/28	2,700	3,577,581
5.50%, 10/01/29	5,085	6,785,882
Garden State Preservation Trust, RB, CAB, Series B (AGM),		
3.41%, 11/01/28 (a)	4,540	2,643,052
Gloucester County Improvement Authority, RB, County	1 000	1 000 000
Guaranteed Loan - County Capital Program, 5.00%, 4/01/38	1,000	1,099,800
Hudson County Improvement Authority, RB, Harrison Parking	4.800	5,394,144
Facility Project, Series C (AGC), 5.38%, 1/01/44	7,000	3,374,144
Monmouth County Improvement Authority, Refunding RB,		
Government Loan (AMBAC):	_	7 04 0
5.00%, 12/01/15	5	5,012
5.00%, 12/01/16 Newark Housing Authority, P.P. South Word Police Facility	5	5,012
Newark Housing Authority, RB, South Ward Police Facility (AGC), 6.75%, 12/01/38	1,750	2,202,182

Newark Housing Authority, Refunding RB, Redevelopment Project (NPFGC), 4.38%, 1/01/37	2,875	2,881,900
	Par (000)	Value
Municipal Bonds		
New Jersey (continued) County/City/Special District/School District (concluded)		
Union County Improvement Authority, RB, Guaranteed		
Lease-Family Court Building Project, 5.00%, 5/01/42	\$ 2,83\$	3,252,709
		37,518,423
Education — 17.7%		
New Jersey EDA, RB, School Facilities Construction, Series		
CC-2:		
5.00%, 12/15/31	1,700	1,928,837
5.00%, 12/15/32	1,300	1,467,427
New Jersey EDA, Refunding RB, Series GG, 5.25%, 9/01/27	3,000	3,518,460
New Jersey Educational Facilities Authority, RB, Montclair State University, Series J, 5.25%, 7/01/38	1,140	1,258,321
New Jersey Educational Facilities Authority, Refunding RB:		
College of New Jersey, Series D (AGM), 5.00%, 7/01/35	6,115	6,710,968
Georgian Court University, Series D, 5.25%, 7/01/37	1,000	1,061,860
Kean University, Series A, 5.50%, 9/01/36	4,500	5,157,315
New Jersey Institute of Technology, Series H, 5.00%, 7/01/31	1,250	1,412,725
Ramapo College, Series B, 5.00%, 7/01/37	155	175,417
Ramapo College, Series B, 5.00%, 7/01/42	340	386,284
Rider University, Series A, 5.00%, 7/01/32	1,000	1,104,170
Rowan University, Series B (AGC), 5.00%, 7/01/24	1,800	2,025,702
University of Medicine & Dentistry, Series B, 7.13%, 12/01/23	1,300	1,670,357
University of Medicine & Dentistry, Series B, 7.50%, 12/01/32	1,625	2,046,671
New Jersey Higher Education Student Assistance Authority,		
Refunding RB:		
Series 1A, 5.00%, 12/01/25	1,035	1,138,603
Series 1A, 5.00%, 12/01/26	645	708,326
Series 1A, 5.25%, 12/01/32	900	998,028
Series A, AMT, 5.75%, 12/01/29	4,045	4,679,620
New Jersey Institute of Technology, RB, Series A, 5.00%, 7/01/42	2 4,320	4,934,952
Rutgers - The State University of New Jersey, Refunding RB, Series F, 5.00%, 5/01/39	500	558,345

42,942,388

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BLACKROCK MUNIYIELD NEW JERSEY FUND, INC. OCTOBER 31, 2012

Schedule of Investments (continued)

(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
New Jersey (continued)		
Health — 13.8%		
New Jersey EDA, RB, Masonic Charity Foundation of New		
Jersey:		
5.25%, 6/01/24	\$1,425	\$ 1,466,567
5.25%, 6/01/32	685	703,653
New Jersey EDA, Refunding RB, First Mortgage, Winchester	·,	
Series A:		
5.75%, 11/01/24	2,500	2,569,575
5.80%, 11/01/31	1,000	1,027,180
New Jersey Health Care Facilities Financing Authority, RB:		
Childrens Specialized Hospital, Series A, 5.50%, 7/01/36	1,540	1,584,429
Hunterdon Medical Center, Series A, 5.13%, 7/01/35	1,950	2,024,022
Meridian Health, Series I (AGC), 5.00%, 7/01/38	970	1,041,576
Pascack Valley Hospital Association, 6.63%, 7/01/36 (b)(c)	1,845	18
Virtua Health (AGC), 5.50%, 7/01/38	2,500	2,790,150
New Jersey Health Care Facilities Financing Authority,		
Refunding RB:		
AHS Hospital Corp., 6.00%, 7/01/41	2,435	3,016,015
Barnabas Health, Series A, 5.63%, 7/01/32	1,090	1,235,657
Barnabas Health, Series A, 5.63%, 7/01/37	3,030	3,403,963
Kennedy Health System, 5.00%, 7/01/31	750	826,673
Kennedy Health System, 5.00%, 7/01/37	415	452,848
Meridian Health System, 5.00%, 7/01/23	500	585,650
Meridian Health System, 5.00%, 7/01/25	1,000	1,151,300
Meridian Health System, 5.00%, 7/01/26	830	947,412
Meridian Health System, 5.00%, 7/01/27	1,000	1,136,580
Robert Wood Johnson, 5.00%, 7/01/31	1,000	1,102,300
South Jersey Hospital, 5.00%, 7/01/36	385	400,119
South Jersey Hospital, 5.00%, 7/01/46	1,650	1,709,020
St. Barnabas Health Care System, Series A, 5.00%, 7/01/29	4,155	4,289,456
		33,464,163
	Par	Value
W 11 15 1	(000)	
Municipal Bonds		
New Jersey (continued)		
Housing — 8.3%		
New Jersey State Housing & Mortgage Finance Agency, RB:		A A OFFICE
M/F Housing, Series A, 4.55%, 11/01/43	\$2,880	\$ 2,972,333
S/F Housing, Series CC, 5.00%, 10/01/34	2,830	3,056,796

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S/F Housing, Series U, AMT, 4.95%, 10/01/32 S/F Housing, Series U, AMT, 5.00%, 10/01/37 S/F Housing, Series X, AMT, 4.85%, 4/01/16 S/F Housing, Series X, AMT, 5.05%, 4/01/18 Series A, 4.75%, 11/01/29 Series A, 6.50%, 10/01/38 Series A, AMT (NPFGC), 4.90%, 11/01/35 New Jersey State Housing & Mortgage Finance Agency, Refunding RB, S/F Housing, Series T, AMT, 4.65%, 10/01/32	660 920 2,050 420 2,305 990 1,365 4,765	691,601 956,405 2,110,086 463,222 2,454,525 1,047,925 1,376,575 4,941,543	
		20,071,011	
State — 27.2%			
Garden State Preservation Trust, RB (AGM):			
CAB, Series B, 2.86%, 11/01/23 (a)	1,860	1,361,204	
Election of 2005, Series A, 5.80%, 11/01/15 (d)(e)	2,500	2,898,100	
New Jersey EDA, RB:			
Motor Vehicle Surcharge, Series A (NPFGC), 5.25%, 7/01/25	2,000	2,472,440	
Motor Vehicle Surcharge, Series A (NPFGC), 5.25%, 7/01/33	12,500	13,311,250	
School Facilities Construction, Series KK, 5.00%, 3/01/35	1,500	1,701,795	
School Facilities Construction, Series KK, 5.00%, 3/01/38	1,470	1,663,820	
School Facilities Construction, Series L (AGM), 5.00%, 3/01/30	5,800	6,244,222	
School Facilities Construction, Series P, 5.00%, 9/01/15	3,000	3,354,930	
School Facilities Construction, Series P, 5.25%, 9/01/16	2,710	3,036,853	
School Facilities Construction, Series Z (AGC), 5.50%, 12/15/34	3,665	4,202,546	
Series Y, 5.00%, 9/01/33	880	969,549	
New Jersey EDA, Refunding RB:			
5.00%, 6/15/26	440	495,493	
5.00%, 6/15/28	720	806,306	
5.00%, 6/15/29	1,760	1,958,827	
School Facilities, Series GG, 5.25%, 9/01/26	7,000	8,266,510	
BLACKROCK MUNIYIELD NEW JERSEY FUND, INC. OC	CTOBER	31, 2012	2

Schedule of Investments (continued)

(Percentages shown are based on Net Assets)

	Par (000)	Value
Municipal Bonds		
New Jersey (continued)		
State (concluded)		
New Jersey EDA, Refunding RB (concluded):		
School Facilities Construction, Series AA, 5.50%, 12/15/29	\$3,000 \$	3,516,090
School Facilities Construction, Series AA, 5.25%, 12/15/33	1,000	1,131,620
New Jersey Health Care Facilities Financing Authority, RB,		
Hospital Asset Transformation Program, Series A, 5.25%,	2,300	2,515,924
10/01/38		
State of New Jersey, COP, Equipment Lease Purchase, Series		
A:		
5.25%, 6/15/27	4,200	4,763,850
5.25%, 6/15/28	1,100	1,243,374
		65,914,703
Transportation — 31.1%		
Delaware River Port Authority Pennsylvania & New Jersey,	1,535	1,716,897
RB, Series D, 5.00%, 1/01/40	,	, ,
New Jersey State Turnpike Authority, RB:		
Growth & Income Securities, Series B (AMBAC), 4.79%,	4,870	4,595,868
1/01/15 (f)	•	
Series A, 5.00%, 1/01/35	1,160	1,341,668
Series E, 5.25%, 1/01/40	2,525	2,842,569
New Jersey State Turnpike Authority, Refunding RB, Series E	2,660	3,130,740
5.00%, 1/01/30 Navy Largery Transportation Travet Fund Authority, BB		
New Jersey Transportation Trust Fund Authority, RB,		
Transportation System: CAB, Series A (AGC), 5.63%, 12/15/28	1,250	1,505,050
CAB, Series C (AMBAC), 4.69%, 12/15/35 (a)	4,140	1,418,612
Series A, 6.00%, 6/15/35	6,030	7,441,623
Series A, 5.88%, 12/15/38	3,650	4,248,308
Series A, 6.00%, 12/15/38	1,950	2,287,993
Series A, 5.50%, 6/15/41	5,000	5,848,050
Series A (AGC), 5.50%, 12/15/38	1,000	1,138,240
Series B, 5.25%, 6/15/36	5,000	5,779,050
Series B, 5.00%, 6/15/42	7,340	8,275,336
Port Authority of New York & New Jersey, RB:	7,540	0,275,550
Consolidated, 169th Series, AMT, 5.00%, 10/15/41	250	276,875
Consolidated, 93rd Series, 6.13%, 6/01/94	5,000	6,235,500
JFK International Air Terminal, 6.00%, 12/01/42	2,700	3,150,873
	-,. • •	-,-20,0,0
	Par	X7 1
	(000)	Value

Municipal Bonds New Jersey (concluded) Transportation (concluded) Port Authority of New York & New Jersey, Refunding RB,		
AMT: Consolidated, 152nd Series, 5.75%, 11/01/30 Consolidated, 152nd Series, 5.25%, 11/01/35 Consolidated, 172nd Series, 5.00%, 10/01/34	\$ 3,300 240 1,500	\$ 3,892,515 265,270 1,701,015
South Jersey Port Corp., Refunding RB (e): 4.75%, 1/01/13 5.00%, 1/01/13 South Jersey Transportation Authority, Refunding RB, Series A:	4,280 2,000	4,311,758 2,015,680
5.00%, 11/01/28 5.00%, 11/01/29	1,075 575	1,242,463 663,510
		75,325,463
Utilities — 5.4% New Jersey EDA, Refunding RB, United Water of New Jerse Inc., Series B (AMBAC), 4.50%, 11/01/25	y, 4,500	4,894,605
Rahway Valley Sewerage Authority, RB, CAB, Series A (NPFGC), 4.40%, 9/01/31 (a) Union County Utilities Authority, Refunding RB, Series A:	6,000	2,642,820
County Deficiency Agreement, 5.00%, 6/15/41 Covanta Union, AMT, 5.25%, 12/01/31	4,115 670	4,732,661 748,377
		13,018,463
Total Municipal Bonds in New Jersey		299,777,217
Puerto Rico — 6.1% State — 6.1% Puerto Rico Sales Tax Financing Corp., RB, First Sub-Series		
A: 5.75%, 8/01/37 6.00%, 8/01/42	6,000 4,000	6,626,580 4,424,040
Puerto Rico Sales Tax Financing Corp., Refunding RB, First Sub-Series C, 6.00%, 8/01/39	3,320	3,716,242
Total Municipal Bonds in Puerto Rico		14,766,862

BLACKROCK MUNIYIELD NEW JERSEY FUND, INC. OCTOBER 31, 2012

Total Municipal Bonds – 129.9%

314,544,079

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Schedule of Investments (continued)

(Percentages shown are based on Net Assets)

Par Value (000)

Municipal Bonds

Transferred to Tender

Option Bond (TOB)

Trusts (g)

New Jersey 20.4%

Education 2.7%

New

Jersey

EDA,

RB,

School

Facilities \$3,600 .4,237,236 Construction,

Series

Z

(AGC),

6.00%,

12/15/34

Rutgers

The

State

University

of

New 2009 2,243,421 Jersey,

Refunding

RB,

Series

F.

5.00%,

5/01/39

6,480,657

State 3.0%

Gatdet60 7,289,646

State

Preservation

Trust,

RB,

Election

of

2005,

Series A (AGM), 5.75%, 11/01/28 Transportation 8.8% New Jersey Transportation Trust Fund Authority, RB_{4,100} 4,733,409 Transportation System, Series A (AGM), 5.00%, 12/15/32 Port Authority of New York & New Jerslely, 250 12, 459, 375 RB, Consolidated, 169th Series, AMT, 5.00%, 10/15/41 Por3,764 4,159,967 Authority of New York & New Jersey, Refunding RB, Consolidated, 152nd Series, AMT, 5.25%,

11/01/35

21,352,751

Utilities 5.9%

Union

County

Utilities

Authority,

Refunding

RB,

Covanta Union, 12,82014,319,684

Series

A,

AMT,

5.25%,

12/01/31

Total

Municipal

Bonds in 49,442,738

New

Jersey

Puerto Rico 1.0%

State 1.0%

Puerto

Rico

Sales

Tax

Financing

Corp. 2,220 2,436,827 Refunding

RB,

Series

C,

5.25%,

8/01/40

Total 51,879,565

Municipal

Bonds

Transferred

to

Tender

Option

Bond

(TOB)

Trusts 21.4%

Total Long-Term Investments (Cost 366,423,644 \$333,785,539) 151.3%

Shares Value

Short-Term Securities

BIF New Jersey Municipal Money Fund, 0.00% (h)(i) 801,590 \$ 801,590

Total Short-Term Securities (Cost - \$801,590) - 0.3%

801,590

Total Investments (Cost - \$334,587,129*) - 151.6%

367,225,234

Other Assets Less Liabilities -1.7% 3,986,875 Liability for TOB Trust Certificates, Including Interest Expense and Fees Payable -(11.1)% (26,830,545) VRDP Shares, at Liquidation Value -(42.2)% (102,200,000)

Net Assets Applicable to Common Shares – 100.0%

\$242,181,564

*As of October 31, 2012, gross unrealized appreciation and gross unrealized depreciation based on cost for federal income tax purposes were as follows:

Tax cost \$308,268,347

Gross unrealized appreciation \$33,466,499 Gross unrealized depreciation (1,322,308)

Net unrealized appreciation \$32,144,191

- (a) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.
- (b) Issuer filed for bankruptcy and/or is in default of principal and/or interest payments.
- (c) Non-income producing security.
- US government securities, held in escrow, are used to pay interest on this security, as well as to retire the bond in full at the date indicated, typically at a premium to par.
- (e) Security is collateralized by Municipal or US Treasury obligations.
- Represents a step-up bond that pays an initial coupon rate for the first period and then a higher coupon rate for the following periods. Rate shown is as of report date.
- (g) Securities represent bonds transferred to a TOB in exchange for which the Fund acquired residual interest certificates. These securities serve as collateral in a financing transaction.
- (h) Investments in issuers considered to be an affiliate of the Fund during the period ended October 31, 2012, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

	Shares	Net	Shares	
Affiliate	Held at		Held at	Income
	July 31, 2012	Activity	October 31, 2012	
BIF New Jersey Municipal Money Fund		(694,018)		

(i) Represents the current yield as of report date.

BLACKROCK MUNIYIELD NEW JERSEY FUND, INC. OCTOBER 31, 2012

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Schedule of Investments (concluded)

Portfolio Abbreviations
To simplify the listings of
portfolio holdings in the
Schedule of Investments,
the names and descriptions
of many of the securities
have been abbreviated
according to the following
list:

Assured

AGC Guaranty

Corp. Assured

AGM Guaranty

Municipal Corp. American

Municipal

AMBAC Bond

Assurance Corp.

Alternative

AMT Minimum Tax

(subject to) Capital

CAB Appreciation

Bonds

COP Certificates of

Participation Economic

EDA Development

Authority General

Obligation

Bonds

M/F Multi-Family

National

Public

NPFGC Finance

Guarantee

Corp.

RB

GO

Revenue Bonds

S/F Single-Family

Fair Value Measurements - Various inputs are used in determining the fair value of investments. These inputs to valuation

- techniques are categorized into a disclosure hierarchy consisting of three broad levels for financial reporting purposes as follows:
 - Level 1 unadjusted price quotations in active
 - markets/exchanges for identical assets and liabilities that the Fund has the ability to access
 - Level 2 other observable inputs (including, but not limited to: quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated

inputs)

Level 3 — unobservable inputs based on the best information available in the circumstances, to the extent

 observable inputs are not available (including the Fund's own assumptions used in determining the fair value of investments)

The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). Accordingly, the degree of judgment exercised in determining fair value is greatest for instruments categorized in Level 3. The inputs used to measure fair value may fall into different levels of the fair value hierarchy. In such cases, for disclosure purposes, the level in the fair value hierarchy within which the fair value measurement falls in its entirety is determined based on the lowest level input that is significant to the fair value measurement in its entirety.

Changes in valuation techniques may result in transfers

into or

out of an

assigned

level

within

the

disclosure

hierarchy.

In

accordance

with the

Fund's

policy,

transfers

between

different

levels of

the fair

value

disclosure

hierarchy

are

deemed

to have

occurred

as of the

beginning

of the

reporting

period.

The

categorization

of a value

determined

for

investments

is based

on the

pricing

transparency

of the

investment

and is not

necessarily

an

indication

of the

risks

associated

with

investing

in those

securities.

For

information

about the

Fund's

policy

regarding

valuation

of

investments

and other

significant

accounting

policies,

please

refer to

the

Fund's

most recent

financial

Illiancia

statements

as

contained

in its

annual

report.

The following

table

summarizes

the Fund's

investments

categorized in

the disclosure

hierarchy as of

October 31,

2012:

Level 1 Level 2 Level Total

Assets:

Investments:

Long-Term

\$366,423,644 \$366,423,644

Investments¹

Short-Term \$801,590 801,590

Securities

Total \$801,590\$366,423,644 \$367,225,234

1 See above Schedule of Investments for values in each sector or political subdivision.

Certain of the Fund's liabilities are held at carrying amount, which approximates fair value for financial reporting purposes. As of October 31, 2012, such liabilities are categorized within the disclosure hierarchy as follows:

	Level 2	Level 3 Total
Liabilities:		
TOB trust certificates	\$(26,812,696)	\$(26,812,696)
VRDP Shares	(102,200,000)	(102,200,000)
Total	\$(129,012,696)	\$(129,012,696)

There were no transfers between levels during the period ended October 31, 2012.

BLACKROCK MUNIYIELD NEW JERSEY FUND, INC. OCTOBER 31, 2012 5

Item 2 – Controls and Procedures

2(a) — The registrant's principal executive and principal financial officers, or persons performing similar functions, have concluded that the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the 1940 Act)) are effective as of a date within 90 days of the filing of this report based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the 1940 Act and Rule 13a-15(b) under the Securities Exchange Act of 1934, as amended.

2(b) — There were no changes in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act) that occurred during the registrant's last fiscal quarter that have materially affected, or are reasonably likely to materially affect, the registrant's internal control over financial reporting.

Item 3 – Exhibits

Certifications – Attached hereto

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.

BlackRock MuniYield New Jersey Fund, Inc.

By: /s/ John M. Perlowski

John M. Perlowski Chief Executive Officer (principal executive officer) of BlackRock MuniYield New Jersey Fund, Inc.

Date: December 21, 2012

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: /s/ John M. Perlowski

John M. Perlowski Chief Executive Officer (principal executive officer) of BlackRock MuniYield New Jersey Fund, Inc.

Date: December 21, 2012

By: /s/ Neal J. Andrews

Neal J. Andrews Chief Financial Officer (principal financial officer) of BlackRock MuniYield New Jersey Fund, Inc.

Date: December 21, 2012