

BLACKROCK MUNIYIELD CALIFORNIA FUND, INC  
 Form N-Q  
 June 26, 2009

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 811-06499

Name of Fund: BlackRock MuniYield California Fund, Inc. (MYC)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: Donald C. Burke, Chief Executive Officer, BlackRock  
 MuniYield California Fund, Inc., 800 Scudders Mill Road, Plainsboro, NJ, 08536. Mailing  
 address: P.O. Box 9011, Princeton, NJ, 08543-9011

Registrant's telephone number, including area code: (800) 882-0052, Option 4

Date of fiscal year end: 07/31/2009

Date of reporting period: 04/30/2009

Item 1 Schedule of Investments

**BlackRock MuniYield California Fund, Inc.**

(Percentages shown are based on Net  
 Assets)

**Schedule of Investments April 30, 2009 (Unaudited)**

	<b>Par (000)</b>	<b>Value</b>
<b>California - 121.4%</b>		
<b>Corporate - 5.6%</b>		
Municipal Bonds		
California Pollution Control Financing Authority, Solid Waste Disposal Revenue Bonds (Republic Services, Inc. Project), AMT, Series B, 5.25%, 6/01/23	\$ 2,700	\$ 2,422,872
California Pollution Control Financing Authority, Solid Waste Disposal Revenue Bonds (Waste Management, Inc. Project), AMT, Series A-2, 5.40%, 4/01/25	3,000	2,653,770
California Pollution Control Financing Authority, Solid Waste Disposal Revenue Bonds (Waste Management, Inc. Project), AMT, Series C, 5.125%, 11/01/23	4,500	3,959,955
California Pollution Control Financing Authority, Solid		

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	Waste Disposal Revenue Bonds (Waste Management, Inc. Project), AMT, Series C, 6.75%, 12/01/27	3,300	3,324,816
	California Pollution Control Financing Authority, Solid Waste Disposal Revenue Refunding Bonds (Republic Services, Inc. Project), AMT, Series C, 5.25%, 6/01/23	2,000	1,815,020
	California State Enterprise Authority, Sewer Facility Revenue Bonds (Anheuser-Busch Project), AMT, 5.30%, 9/01/47	2,500	1,804,075
			15,980,508
<b>County/City/Special District/School District - 44.2%</b>	Arcata, California, Joint Powers Financing Authority, Tax Allocation Revenue Refunding Bonds (Community Development Project Loan), Series A, 6%, 8/01/23 (a)	2,630	2,630,184
	Chino Basin, California, Desalter Authority, Revenue Refunding Bonds, Series A, 5%, 6/01/35 (b)	5,280	5,196,576
	Cucamonga, California, County Water District, COP, 5.125%, 9/01/35 (c)(d)	3,750	3,414,787
	El Monte, California, Unified School District, GO (Election of 2002), Series C, 5.25%, 6/01/32 (e)	10,120	10,163,010
	Fontana Unified School District, California, GO, Series A, 5.25%, 8/01/28 (e)	7,000	7,098,770
	Grant Joint Union High School District, California, GO (Election of 2006), 5%, 8/01/29 (e)	9,390	9,397,888
	La Quinta, California, Financing Authority, Local Agency Revenue Bonds, Series A, 5.125%, 9/01/34 (a)	6,020	5,156,973
	Long Beach, California, Harbor Revenue Bonds, AMT, Series A, 5.25%, 5/15/23 (c)(d)	2,000	1,880,620
	Los Angeles, California, COP (Sonnenblick Del Rio West Los Angeles), 6.20%, 11/01/31 (a)	2,000	2,029,520

**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 list below.

<b>AMT</b>	Alternative Minimum Tax (subject to)	<b>M/F</b>	Multi-Family
<b>COP</b>	Certificates of Participation	<b>S/F</b>	Single-Family
<b>GO</b>	General Obligation Bonds	<b>VRDN</b>	Variable Rate Demand Notes

		(Percentages shown are based on Net Assets)	
		Par	Value
		(000)	
<b>Municipal Bonds</b>			
	Los Angeles, California, Community College District, GO, Refunding (Election of 2008), Series A, 6%, 8/01/33	\$ 3,825	\$ 4,087,395
	Los Angeles, California, Unified School District, GO, Series D, 5%, 7/01/26	4,810	4,870,895
	Los Angeles, California, Unified School District, GO, Series D, 5%, 7/01/27	2,375	2,395,568
	Los Angeles County, California, Metropolitan Transportation Authority, Sales Tax Revenue Refunding Bonds, Proposition A, First Tier Senior-Series A, 5%, 7/01/27 (a)	3,780	3,843,920
	Marin, California, Community College District, GO (Election of 2004), Series A, 5%, 8/01/28 (d)	5,885	5,912,777
	Modesto, California, Irrigation District, COP, Series B, 5.50%, 7/01/35	3,300	3,219,282
	Morgan Hill, California, Unified School District, GO, 5.052%, 8/01/26 (f)	7,570	3,396,356
	Mount Diablo, California, Unified School District, GO (Election of 2002), 5%, 6/01/28 (d)	2,000	1,958,960
	Murrieta Valley, California, Unified School District, Public Financing Authority, Special Tax Revenue Bonds, Series A, 5.125%, 9/01/26 (b)	6,675	6,663,119
	Orange County, California, Sanitation District, COP, 5%, 2/01/33 (c)(d)	5,250	5,199,180
	Pittsburg, California, Redevelopment Agency, Tax Allocation Refunding Bonds (Los Medanos Community Development Project), Series A, 6.50%, 9/01/28	2,500	2,545,200
	San Diego, California, Community College District, GO (Election of 2002), 5.25%, 8/01/33	6,500	6,561,035
	San Diego, California, Regional Building Authority, Lease		

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Annex	Revenue Bonds (County Operations Center and		
2/01/36	Redevelopment Project), Series A, 5.375%,	3,200	3,200,928
5%,	San Francisco, California, Bay Area Rapid Transit District,		
Santa	Sales Tax Revenue Refunding Bonds, Series A,		
5%,	7/01/34 (d)	5,430	5,315,427
College	San Jose, California, Unified School District,		
2004),	Clara County, GO (Election of 2002), Series B,		
Agency,	8/01/29 (c)(d)	1,855	1,858,803
Community	San Jose-Evergreen, California, Community		
9/01/29	District, Capital Appreciation, GO (Election of		
	Refunding, Series A, 5.12%, 9/01/23 (d)(f)	10,005	4,551,575
	San Juan, California, Unified School District, GO (Election		
	of 2002), 5%, 8/01/28 (d)	5,000	4,896,750
	Santa Cruz County, California, Redevelopment		
	Tax Allocation Bonds (Live Oak/Soquel		
	Improvement Project Area), Series A, 6.625%,		
		1,000	1,044,700

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## BlackRock MuniYield California Fund, Inc.

Schedule of Investments April 30, 2009 (Unaudited)

(Percentages shown are based on Net Assets)

	Par (000)	Value
<b>Municipal Bonds</b>		
Santa Cruz County, California, Redevelopment Agency, Tax Allocation Bonds (Live Oak/Soquel Community Improvement Project Area), Series A, 7%, 9/01/36	\$ 500	\$ 527,010
Vacaville, California, Unified School District, GO (Election of 2001), 5%, 8/01/30 (d)	4,745	4,570,242
Ventura, California, Unified School District, GO (Election of 1997), Series H, 5.125%, 8/01/34 (e)	1,000	1,002,430
Westminster, California, Redevelopment Agency, Westminster Commercial Redevelopment Project		

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	Number 1, Subordinate Tax Allocation Bonds (Police Facility), 6.25%, 11/01/39 (b)	1,250	1,311,125
			125,901,005
<b>Education - 11.6%</b>	California Educational Facilities Authority Revenue Bonds (University of Southern California), Series A, 5.25%, 10/01/39	13,850	14,402,476
	California Infrastructure and Economic Development Bank Revenue Bonds (J. David Gladstone Institute Project), 5.50%, 10/01/22	4,990	5,062,604
	University of California Revenue Bonds, Series D, 5%, 5/15/32 (c)(d)	2,500	2,449,675
	University of California Revenue Bonds, Series L, 5%, 5/15/36	8,500	8,230,465
	University of California Revenue Bonds, Series O, 5.75%, 5/15/34	2,800	2,934,848
			33,080,068
<b>Health - 10.8%</b>	ABAG Finance Authority for Nonprofit Corporations, California, Revenue Refunding Bonds (Redwood Senior Homes and Services), 6%, 11/15/22	1,730	1,545,357
	California Statewide Communities Development Authority, COP (John Muir/Mount Diablo Health System), 5.125%, 8/15/22 (d)	5,250	5,222,070
	California Statewide Communities Development Authority, Health Facility Revenue Bonds (Memorial Health Services), Series A, 6%, 10/01/23	3,270	3,318,723
	California Statewide Communities Development Authority, Health Facility Revenue Bonds (Memorial Health Services), Series A, 5.50%, 10/01/33	3,000	2,719,920
	California Statewide Communities Development Authority Revenue Bonds (Catholic Healthcare West), Series D, 5.50%, 7/01/31	5,000	4,712,750
	California Statewide Communities Development Authority Revenue Bonds (Daughters of Charity National Health System), Series A, 5.25%, 7/01/30	3,665	2,558,573
	California Statewide Communities Development Authority, Revenue Refunding Bonds (Kaiser Hospital Asset Management, Inc.), Series C, 5.25%, 8/01/31	6,975	6,241,997

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Schedule of Investments April 30, 2009 (Unaudited)

(Percentages shown are based on Net Assets)

	Par (000)	Value
<b>Municipal Bonds</b>		
California Statewide Communities Development Authority, Revenue Refunding Bonds (Kaiser Permanente), Series A, 5%, 4/01/31	\$ 3,500	\$ 3,015,075
Torrance, California, Hospital Revenue Refunding Bonds (Torrance Memorial Medical Center), Series A, 6%, 6/01/22	1,310	1,332,742
		30,667,207
<b>Housing - 1.3%</b>		
California Rural Home Mortgage Finance Authority, S/F Mortgage Revenue Bonds (Mortgage-Backed Securities Program), AMT, Series B, 6.15%, 6/01/20 (g)(h)	25	25,455
California Rural Home Mortgage Finance Authority, S/F Mortgage Revenue Bonds (Mortgage-Backed Securities Program), AMT, Sub-Series FH-1, 5.50%, 8/01/47	415	308,283
Santa Clara County, California, Housing Authority, M/F Housing Revenue Bonds (John Burns Gardens Apartments Project), AMT, Series A, 6%, 8/01/41	3,500	3,534,650
		3,868,388
<b>State - 13.7%</b>		
California State, GO, 5.50%, 4/01/30	5	5,010
California State, GO, 6.50%, 4/01/33	15,000	16,386,150
California State, GO, Refunding (Veterans), AMT, Series BJ, 5.70%, 12/01/32	2,785	2,785,362
California State Public Works Board, Lease Revenue Bonds (Department of Corrections), Series C, 5.50%, 6/01/23	5,000	5,025,450
California State Public Works Board, Lease Revenue Bonds (Department of Developmental Services - Porterville Project), Series C, 6.25%, 4/01/34	1,000	1,017,450
California State Public Works Board, Lease Revenue Bonds (Department of Education - Riverside Campus Project), Series B, 6.50%, 4/01/34	10,000	10,374,400
California State Public Works Board, Lease Revenue Bonds (Regents University Project), Series E, 5%, 4/01/34	3,540	3,403,356
		38,997,178
<b>Transportation - 6.9%</b>		
Port of Oakland, California, Revenue Bonds, AMT, Series K, 5.75%, 11/01/29 (c)(d)	1,615	1,451,917
Port of Oakland, California, Revenue Refunding Bonds, AMT, Series L, 5.375%, 11/01/27 (c)(d)	11,615	10,163,706
San Francisco, California, City and County Airport Commission, International Airport Revenue Refunding Bonds, AMT, Second Series, 6.75%, 5/01/19	3,475	3,629,499

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	San Jose, California, Airport Revenue Bonds, Series D, 5%, 3/01/28 (d)	4,615	4,520,946 19,766,068
<b>Utilities - 27.3%</b>	Anaheim, California, Public Financing Authority, Electric System Distribution Facilities Revenue Bonds, Series A, 5%, 10/01/31 (e)	9,000	8,856,630

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## BlackRock MuniYield California Fund, Inc.

Schedule of Investments April 30, 2009 (Unaudited)

	(Percentages shown based on Net Assets)	
	Par	Value
<b>Municipal Bonds</b>	(000)	
California State Department of Water Resources, Water System Revenue Refunding Bonds (Central Valley Project), Series AE, 5%, 12/01/28	\$ 6,000	\$ 6,230,5
California Statewide Communities Development Authority, Water Revenue Bonds (Pooled Financing Program), Series C, 5.25%, 10/01/28 (e)	2,380	2,406,9
Chino Basin, California, Regional Financing Authority, Revenue Refunding Bonds (Inland Empire Utility Agency), Series A, 5%, 11/01/33 (a)	2,015	1,954,
Eastern Municipal Water District, California, Water and Sewer, COP, Series H, 5%, 7/01/33	4,750	4,575,5
Eastern Municipal Water District, California, Water and Sewer, COP, Series H, 5%, 7/01/35	7,540	7,190,4
Los Angeles, California, Department of Water and Power, Waterworks Revenue Bonds, Series A, 5.375%, 7/01/38	3,200	3,241,6
Los Angeles, California, Wastewater System Revenue Refunding Bonds, Sub-Series A, 5%, 6/01/27 (d)	4,500	4,516,2
Los Angeles County, California, Sanitation Districts Financing Authority, Revenue Refunding Bonds (Capital Projects - District Number 14), Sub-Series B, 5%, 10/01/30 (c)(d)	2,550	2,415,
Metropolitan Water District of Southern California, Waterworks Revenue Bonds, Series A, 5%, 7/01/30 (e)	1,000	1,014,
Metropolitan Water District of Southern California, Waterworks Revenue Bonds, Series A, 5%, 7/01/32	1,240	1,264,
Metropolitan Water District of Southern California, Waterworks Revenue Bonds, Series C, 5%, 7/01/35	4,085	4,143,

Metropolitan Water District of Southern California, Waterworks Revenue Refunding Bonds, Series B, 5%, 7/01/35	2,625	2,662,8
Oxnard, California, Financing Authority, Wastewater Revenue Bonds (Redwood Trunk Sewer and Headworks Projects), Series A, 5.25%, 6/01/34 (c)(d)	3,000	2,987,4
Sacramento, California, Municipal Utility District Financing Authority Revenue Bonds (Consumers Project), 5.125%, 7/01/29 (d)	18,500	17,465,8
Sacramento County, California, Sanitation District Financing Authority, Revenue Refunding Bonds (County Sanitation District Number 1), 5%, 8/01/35 (d)	5,375	5,244,1
Stockton, California, Public Financing Authority, Water Revenue Bonds (Water System Capital Improvement Projects), Series A, 5%, 10/01/31 (d)	1,600	1,545,3
		77,715,7
<b>Total Municipal Bonds in California</b>		<b>345,976,2</b>

## BlackRock MuniYield California Fund, Inc.

Schedule of Investments April 30, 2009 (Unaudited)		(Percentages shown are based on Net Assets)	
	Municipal Bonds	Par (000)	Value
<b>U.S. Virgin Islands - 0.8%</b>			
<b>Corporate - 0.8%</b>	Virgin Islands Government Refinery Facilities, Revenue Refunding Bonds (Hovensa Coker Project), AMT, 6.50%, 7/01/21	\$ 3,000	\$ 2,352,870
	<b>Total Municipal Bonds in the U.S. Virgin Islands</b>		2,352,870
	<b>Total Municipal Bonds - 122.2%</b>		<b>348,329,080</b>
	<b>Municipal Bonds Transferred to Tender Option Bond Trusts (i)</b>		
<b>California - 34.4%</b>			
<b>County/City/Special District/School District - 15.0%</b>	Contra Costa County, California, Community College District, GO (Election of 2002), 5%, 8/01/30 (e)	10,210	10,116,885
	Fremont, California, Unified School District, Alameda County, GO (Election of 2002), Series B, 5%, 8/01/30 (e)	4,003	3,966,472
	Los Angeles, California, Community College District, GO (Election of 2003), Series E, 5%, 8/01/31 (e)	10,002	9,829,329
	Peralta, California, Community College District, GO		



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	(Election of 2000), Series D, 5%, 8/01/30 (e)	1,995	1,976,806
	Santa Clara County, California, Financing Authority, Lease		
	Revenue Refunding Bonds, Series L, 5.25%, 5/15/36	10,001	9,943,622
	Sonoma County, California, Junior College District, GO		
	(Election 2002), Refunding, Series B, 5%, 8/01/28 (e)	6,875	6,907,424
			42,740,538
<b>Education - 8.5%</b>	California State University, Systemwide Revenue Bonds,		
	Series A, 5%, 11/01/39 (e)	4,840	4,664,066
	University of California, Limited Project Revenue Bonds,		
	Series B, 5%, 5/15/33 (e)	8,490	8,326,822
	University of California Revenue Bonds, Series L, 5%,		
	5/15/40	11,597	11,137,699
			24,128,587
<b>Transportation - 2.1%</b>	San Francisco, California, Bay Area Rapid Transit District,		
	Sales Tax Revenue Refunding Bonds, Series A, 5%,		
	7/01/30 (d)	6,000	6,002,760
<b>Utilities - 8.8%</b>	Metropolitan Water District of Southern California,		
	Waterworks Revenue Bonds, Series A, 5%, 7/01/37	20,000	20,226,000
	San Diego County, California, Water Authority, Water		
	Revenue Bonds, COP, Series A, 5%, 5/01/31 (e)	5,010	4,976,934
			25,202,934
	<b>Total Municipal Bonds Transferred to</b>		
	<b>Tender Option Bond Trusts - 34.4%</b>		98,074,819
	<b>Total Long-Term Investments (Cost - \$461,818,790) - 156.6%</b>		446,403,899
	<b>Short-Term Securities</b>	<b>Shares</b>	
<b>Money Market Fund - 2.5%</b>	CMA California Municipal Money Fund, 0.26% (j)(k)	7,105,539	7,105,539

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## BlackRock MuniYield California Fund, Inc.

Schedule of Investments April 30, 2009 (Unaudited)

(Percentages shown are based on Net Assets)

		Par	Value
		(000)	
<b>California - 1.7%</b>	<b>Short-Term Securities</b>		
	Los Angeles County, California, Metropolitan		
	Transportation Authority, Sales Tax Revenue Refunding		
	Bonds, Proposition C, VRDN, Second Senior Series A,		
	6%, 5/07/09 (d)(l)	\$ 5,000	\$ 5,000,000
	<b>Total Short-Term Securities (Cost - \$12,105,539) - 4.2%</b>		12,105,539
	<b>Total Investments (Cost - \$473,924,329*) - 160.8%</b>		458,509,438
	<b>Other Assets Less Liabilities - 2.5%</b>		7,038,898
	<b>Liability for Trust Certificates, Including Interest</b>		

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<b>Expense and Fees Payable - (18.9)%</b>	(53,972,171)
<b>Preferred Shares, at Redemption Value - (44.4)%</b>	(126,530,973)
<b>Net Assets Applicable to Common Shares - 100.0%</b>	<b>\$ 285,045,192</b>

\* The cost and unrealized appreciation (depreciation) of investments as of April 30, 2009, as computed for federal income tax purposes, were as follows:

Aggregate cost	\$	419,899,764
Gross unrealized appreciation	\$	3,951,907
Gross unrealized depreciation		(19,184,838)
Net unrealized depreciation	\$	(15,232,931)

(a) AMBAC Insured.

(b) Assured Guaranty Insured.

(c) FGIC Insured.

(d) NPFGC Insured.

(e) FSA Insured.

(f) Represents a zero-coupon bond. Rate shown reflects the effective yield as of report date.

(g) FNMA Collateralized.

(h) GNMA Collateralized.

(i) Securities represent bonds transferred to tender option bond trust in exchange for which the Fund acquired residual interest certificates. These securities serve as collateral in a financing transaction.

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

(k) Investments in companies considered to be an affiliate of the Fund, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, were as follows:

<b>Affiliate</b>	<b>Net Activity</b>		<b>Income</b>
CMA California Municipal Money Fund	(7,307,718)	\$	91,183

(l) Rate shown is as of report date and maturity shown is the final maturity date or the date the principal owed can be recovered through demand.

## BlackRock MuniYield California Fund, Inc.

### Schedule of Investments April 30, 2009 (Unaudited)

The Fund adopted Financial Accounting Standards Board Statement of Financial Accounting Standards No. 157, "Fair Value Measurements" ("FAS 157"). FAS 157 clarifies the definition of fair value, establishes a framework for measuring fair values and requires additional disclosures about the use of fair value measurements. Various inputs are used in determining the fair value of investments, which are as follows:

Level 1 - price quotations in active markets/exchanges for identical securities

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

The inputs or methodology used for valuing securities are not necessarily an indication of the risk 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 statements as contained in its semi-annual report.

The following table summarizes the inputs used as of April 30, 2009 in determining the fair valuation of the Fund's investments:

Valuation Inputs	Investments in Securities Assets
Level 1	\$ 7,105,539
Level 2	451,403,899
Level 3	-
<b>Total</b>	<b>\$ 458,509,438</b>

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#### 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 13(a)-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

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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 California Fund, Inc.

By: /s/ Donald C. Burke

Donald C. Burke

Chief Executive Officer of

BlackRock MuniYield California Fund, Inc.

Date: June 19, 2009

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/ Donald C. Burke

Donald C. Burke

Chief Executive Officer (principal executive officer) of

BlackRock MuniYield California Fund, Inc.

Date: June 19, 2009

By: /s/ Neal J. Andrews

Neal J. Andrews

Chief Financial Officer (principal financial officer) of

BlackRock MuniYield California Fund, Inc.

Date: June 19, 2009

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