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BLACKROCK APEX MUNICIPAL FUND INC
Form N-CSR
September 05, 2007

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM N-CSR

CERTIFIED SHAREHOLDER REPORT OF REGISTERED MANAGEMENT
INVESTMENT COMPANIES

Investment Company Act file number 811-05227

Name of Fund: BlackRock Apex Municipal Fund, Inc.

Fund Address: P.O. Box 9011
Princeton, NJ 08543-9011

Name and address of agent for service: Robert C. Doll, Jr., Chief Executive
Officer, BlackRock Apex Municipal 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

Date of fiscal year end: 06/30/07

Date of reporting period: 07/01/06 - 06/30/07

Item 1 - Report to Stockholders

EQUITIES FIXED INCOME REAL ESTATE
LIQUIDITY ALTERNATIVES BLACKROCK SOLUTIONS

BlackRock Apex Municipal
Fund, Inc.

BLACKROCK

ANNUAL REPORT | JUNE 30, 2007

NOT FDIC INSURED
MAY LOSE VALUE
NO BANK GUARANTEE

BlackRock Apex Municipal Fund, Inc.

Dividend Policy

The Fund's dividend policy is to distribute all or a portion of its net investment income to its shareholders on a monthly basis. In order to provide shareholders with a more stable level of dividend distributions, the Fund may at times pay out less than the entire amount of net investment income earned in any particular month and may at times in any particular month pay out such accumulated but undistributed income in addition to net investment income earned in that month. As a result, the dividends paid by the Fund for any particular month may be more or less than the amount of net investment income earned by the Fund during such month. The Fund's current accumulated but undistributed net

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investment income, if any, is disclosed in the Statement of Assets, Liabilities and Capital which comprises part of the financial information included in this report.

Electronic Delivery

Electronic copies of most financial reports and prospectuses are available on the Fund's Web site. Shareholders can sign up for e-mail notifications of quarterly statements, annual and semi-annual reports and prospectuses by enrolling in the Fund's electronic delivery program.

Shareholders Who Hold Accounts with Investment Advisers, Banks or Brokerages:

Please contact your financial advisor to enroll. Please note that not all investment advisers, banks or brokerages may offer this service.

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A Letter to Shareholders

Dear Shareholder

At the mid-point of 2007, investor sentiment appeared quite buoyant, notwithstanding some undertones of caution. For equity markets, positive momentum as the year began was interrupted by a notable but transitory set-back at the end of February. Markets resumed their ascent through May, but entered a trading range in June as investors began to question the sustainability of the rally. For the most part, equities found support in robust merger-and-acquisition activity, healthy global economies, tame inflation, relatively low interest rates, still-positive earnings growth and attractive valuations. These tailwinds prevailed over such headwinds as a weakening U.S. economy, slowing housing market, credit-related lending problems, escalating geopolitical concerns and high energy prices, leading the Standard & Poor's (S&P) 500 Index to a new record high in May.

Meanwhile, turmoil in the subprime mortgage market and generally mixed economic signals weighed on bonds. In June, bond prices dropped precipitously as long-term yields rose to their highest levels in five years. The 10-year Treasury yield, which began 2007 at 4.68%, reached nearly 5.30% in mid-June before retracing to 5.03% by month's end. Notably, this year has brought some re-steepening of the yield curve, which had been flat to inverted throughout 2006. Still, at the end of June, yields along the curve remained below the federal funds rate of 5.25%, the level at which the Federal Reserve Board (the Fed) has left it since first pausing in August 2006. While first-quarter gross domestic product growth of 0.7% represented the slowest rate of expansion since 2002, the Fed reiterated that inflation, not a slowing economy, remains its primary concern. Many observers interpreted the Fed's reaction to mean that the economy has hit its low and is bound for renewed strength, thereby reducing the likelihood of an interest rate cut in the near future.

Against this backdrop, the major equity market indexes posted strong returns for the annual and semi-annual periods ended June 30, 2007, while fixed income assets were more mixed:

| Total Returns as of June 30, 2007 | 6-month |
|-----------------------------------|---------|
| U.S. equities (S&P 500 Index) | + 6.96% |

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| | |
|--|--------|
| Small cap U.S. equities (Russell 2000 Index) | + 6.45 |
| International equities (MSCI Europe, Australasia, Far East Index) | +10.74 |
| Fixed income (Lehman Brothers U.S. Aggregate Bond Index) | + 0.98 |
| Tax-exempt fixed income (Lehman Brothers Municipal Bond Index) | + 0.14 |
| High yield bonds (Lehman Brothers U.S. Corporate High Yield 2% Issuer Cap Index) | + 2.96 |

We expect market volatility to linger throughout the second half of 2007. As you navigate the uncertainties, we encourage you to review your investment goals with your financial professional and to make portfolio changes, as needed. For more market insight, we invite you to view "What's Ahead in 2007: The Second-Quarter Update" and "Are You Prepared for Volatility?" at www.blackrock.com/funds. We thank you for entrusting BlackRock with your investment assets, and we look forward to continuing to serve you in the months and years ahead.

Sincerely,

/s/ Robert C. Doll, Jr.

Robert C. Doll, Jr.
Fund President and Director

BLACKROCK APEX MUNICIPAL FUND, INC.

JUNE 30, 2007

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Fund Summary as of June 30, 2007 (Unaudited)

Fund Information

| | |
|--|---------------|
| Symbol on New York Stock Exchange | APX |
| Initial Offering Date | July 25, 1989 |
| Yield on Closing Market Price as of 6/30/07 (\$10.23)* | 5.75% |
| Current Monthly Distribution per share of Common Stock** | \$.049 |
| Current Annualized Distribution per share of Common Stock** | \$.588 |

* Yield on closing market price is calculated by dividing the current annualized distribution per share by the closing market price. Past performance does not guarantee future results.

** The distribution is not constant and is subject to change.

The table below summarizes the changes in the Fund's market price and net asset value:

| | 6/30/07 | 6/30/06 | Change | High | Low |
|-----------------------|---------|---------|---------|---------|--------|
| Market Price | \$10.23 | \$10.25 | (0.20%) | \$11.35 | \$9.84 |
| Net Asset Value | \$ 9.95 | \$ 9.90 | 0.51% | \$10.20 | \$9.88 |

The following charts show the Fund's portfolio composition and credit quality allocations of the Fund's long-term investments:

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Portfolio Composition

| Sector | 6/30/07 | 6/30/06 |
|--------------------------------------|---------|---------|
| Hospital | 31% | 30% |
| Industrial & Pollution Control | 29 | 29 |
| City, County & State | 11 | 12 |
| Tax Revenue | 9 | 12 |
| Education | 5 | 4 |
| Housing | 4 | 1 |
| Power | 3 | 5 |
| Tobacco | 3 | 1 |
| Transportation | 3 | 3 |
| Water & Sewer | 1 | 2 |
| Lease Revenue | 1 | 1 |

Credit Quality Allocations*

| Credit Rating | 6/30/07 | 6/30/06 |
|----------------------|---------|---------|
| AAA/Aaa | 8% | --+% |
| AA/Aa | --+ | -- |
| A/A | 4 | 3 |
| BBB/Baa | 21 | 20 |
| BB/Ba | 9 | 12 |
| B/B | 6 | 7 |
| CCC/Caa | 5 | 6 |
| NR (Not Rated) | 47++ | 52 |

* Using the highest of S&P's or Moody's ratings.

+ Amount is less than 1%.

++ The Manager has deemed certain of these non-related securities to be of investment grade quality. As of June 30, 2007, the market value of these securities was \$92,103,373, representing 47% of the Fund's long-term investments.

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Schedule of Investments as of June 30, 2007 (in Thousands)

| Face Amount | Municipal Bonds | Value |
|-----------------|--|----------|
| ===== | | |
| Alabama -- 0.6% | | |
| \$1,255 | Tuscaloosa, Alabama, Special Care Facilities Financing Authority, Residential Care Facility Revenue Bonds (Capstone Village, Inc. Project), Series A, 5.875% due 8/01/2036 | \$ 1,266 |
| ===== | | |
| Alaska -- 1.1% | | |
| 2,000 | Alaska Industrial Development and Export Authority Revenue Bonds (Williams Lynxs Alaska Cargoport), AMT, 8% due 5/01/2023 | 2,125 |
| ===== | | |
| Arizona -- 3.4% | | |
| 900 | Maricopa County, Arizona, IDA, Education Revenue Bonds (Arizona Charter Schools Project 1), Series A, 6.625% due 7/01/2020 | 910 |
| | Maricopa County, Arizona, IDA, M/F Housing Revenue | |

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| | | |
|---------------------|--|-------|
| | Bonds (Sun King Apartments Project), Series A: | |
| 45 | 5.875% due 11/01/2008 | 45 |
| 20 | 6% due 11/01/2010 | 20 |
| 1,020 | 6.75% due 5/01/2031 | 1,045 |
| 2,950 | Phoenix, Arizona, IDA, Airport Facility, Revenue Refunding Bonds (America West Airlines Inc. Project), AMT, 6.30% due 4/01/2023 | 2,989 |
| 1,000 | Pima County, Arizona, IDA, Education Revenue Bonds (Arizona Charter Schools Project), Series E, 7.25% due 7/01/2031 | 1,100 |
| 500 | Yavapai County, Arizona, IDA, Hospital Facility Revenue Bonds (Yavapai Regional Medical Center), Series A, 6% due 8/01/2033 | 532 |
| ===== | | |
| California -- 2.6% | | |
| 1,800 | California State, GO, 5% due 2/01/2014 (a) | 1,906 |
| 1,300 | California State, Various Purpose, GO, 5.25% due 11/01/2025 | 1,363 |
| 1,000 | Fontana, California, Special Tax, Refunding (Community Facilities District Number 22 -- Sierra), 6% due 9/01/2034 | 1,050 |
| 865 | Golden State Tobacco Securitization Corporation of California, Tobacco Settlement Revenue Refunding Bonds, Senior Series A-1, 5.125% due 6/01/2047 | 844 |
| ===== | | |
| Colorado -- 4.3% | | |
| 450 | Colorado Health Facilities Authority, Revenue Refunding Bonds (Christian Living Communities Project), Series A, 5.75% due 1/01/2026 | 469 |
| 2,800 | Elk Valley, Colorado, Public Improvement Revenue Bonds (Public Improvement Fee), Series A, 7.30% due 9/01/2022 | 2,951 |
| 1,235 | North Range Metropolitan District Number 1, Colorado, GO, 7.25% due 12/15/2011 (a) | 1,376 |
| 2,000 | Plaza Metropolitan District Number 1, Colorado, Tax Allocation Revenue Bonds (Public Improvement Fees): 8% due 12/01/2025 | 2,198 |
| 500 | 8.125% due 12/01/2025 | 502 |
| 830 | Southlands, Colorado, Medical District, GO (Metropolitan District Number 1), 7.125% due 12/01/2034 | 911 |
| ===== | | |
| Connecticut -- 0.3% | | |
| 490 | Connecticut State Development Authority, Airport Facility Revenue Bonds (Learjet Inc. Project), AMT, 7.95% due 4/01/2026 | 582 |
| ===== | | |
| Florida -- 9.8% | | |
| 800 | Capital Projects Finance Authority, Florida, Continuing Care Retirement Revenue Bonds (Glenridge on Palmer Ranch), Series A, 8% due 6/01/2012 (a) | 943 |
| 840 | Halifax Hospital Medical Center, Florida, Hospital Revenue Refunding Bonds, Series A, 5% due 6/01/2038 | 823 |
| 850 | Highlands County, Florida, Health Facilities Authority, Hospital Revenue Bonds (Adventist Health System), Series C, 5.25% due 11/15/2036 | 868 |
| 2,500 | Hillsborough County, Florida, IDA, Exempt Facilities Revenue Bonds (National Gypsum Company), AMT, Series A, 7.125% due 4/01/2030 | 2,690 |
| 900 | Jacksonville, Florida, Economic Development Commission, IDR (Gerdau Ameristeel US, Inc.), AMT, | |

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| | | |
|-----------------|---|-------|
| | 5.30% due 5/01/2037 | 892 |
| 750 | Lakewood Ranch, Florida, Community Development District Number 5, Special Assessment Revenue Refunding Bonds, Series A, 6.70% due 5/01/2031 | 799 |
| 1,810 | Lee County, Florida, IDA, IDR (Lee Charter Foundation), Series A, 5.375% due 6/15/2037 | 1,779 |
| | Midtown Miami, Florida, Community Development District, Special Assessment Revenue Bonds, Series A: | |
| 1,500 | 6% due 5/01/2024 | 1,596 |
| 1,350 | 6.25% due 5/01/2037 | 1,436 |
| 1,525 | Orlando, Florida, Urban Community Development District, Capital Improvement Special Assessment Bonds, Series A, 6.95% due 5/01/2033 | 1,629 |
| 2,140 | Santa Rosa Bay Bridge Authority, Florida, Revenue Bonds, 6.25% due 7/01/2028 | 2,150 |
| | Sarasota County, Florida, Health Facilities Authority, Retirement Facility Revenue Refunding Bonds (Village on the Isle Project): | |
| 590 | 5.50% due 1/01/2027 | 601 |
| 550 | 5.50% due 1/01/2032 | 558 |
| 2,385 | Tampa Palms, Florida, Open Space and Transportation Community Development District Revenue Bonds, Capital Improvement (Richmond Place Project), 7.50% due 5/01/2018 | 2,414 |
| ===== | | |
| Georgia -- 3.8% | | |
| | Atlanta, Georgia, Tax Allocation Bonds: | |
| 2,000 | (Atlantic Station Project), 7.90% due 12/01/2024 | 2,192 |
| 495 | (Princeton Lakes Project), 5.50% due 1/01/2031 | 500 |
| | Brunswick and Glynn County, Georgia, Development Authority, First Mortgage Revenue Bonds (Coastal Community Retirement Corporation Project), Series A: | |
| 830 | 7.125% due 1/01/2025 | 661 |
| 1,185 | 7.25% due 1/01/2035 | 942 |

Portfolio Abbreviations

To simplify the listings of BlackRock Apex Municipal Fund, Inc.'s portfolio holdings in the Schedule of Investments, we have abbreviated the names of many of the securities according to the list at right.

| | |
|------|--------------------------------------|
| AMT | Alternative Minimum Tax (subject to) |
| EDA | Economic Development Authority |
| GO | General Obligation Bonds |
| IDA | Industrial Development Authority |
| IDR | Industrial Development Revenue Bonds |
| M/F | Multi-Family |
| PCR | Pollution Control Revenue Bonds |
| VRDN | Variable Rate Demand Notes |

BLACKROCK APEX MUNICIPAL FUND, INC.

JUNE 30, 2007

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Schedule of Investments (continued)

(in Thousands)

| Face Amount | Municipal Bonds | Value |
|---------------------|---|-------|
| ===== | | |
| Georgia (concluded) | | |
| \$1,580 | Fulton County, Georgia, Development Authority, PCR (General Motors Corporation), Refunding, VRDN, | |

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| | | |
|------------------|---|----------|
| | 7.50% due 4/01/2010 (d) | \$ 1,580 |
| 690 | Gainesville, Georgia, Redevelopment Authority, Educational Facilities Revenue Refunding Bonds (Riverside Military Academy), 5.125% due 3/01/2027 | 698 |
| 830 | Savannah, Georgia, EDA, First Mortgage Revenue Bonds (Marshes of Skidaway), Series A, 7.40% due 1/01/2034 | 899 |
| ===== | | |
| Idaho -- 0.8% | | |
| 1,470 | Idaho Health Facilities Authority, Revenue Refunding Bonds (Valley Vista Care Corporation), Series A, 7.75% due 11/15/2016 | 1,541 |
| ===== | | |
| Illinois -- 7.8% | | |
| 1,845 | Caseyville, Illinois, Senior Tax Increment Revenue Bonds (Forest Lakes Project), 7% due 12/30/2022 | 1,925 |
| | Chicago, Illinois, O'Hare International Airport, Special Facility Revenue Refunding Bonds (American Airlines Inc. Project): | |
| 3,000 | 8.20% due 12/01/2024 | 3,009 |
| 2,860 | 5.50% due 12/01/2030 | 2,846 |
| | Illinois State Finance Authority Revenue Bonds: | |
| 2,050 | (Clare At Water Tower Project), Series A, 6.125% due 5/15/2038 | 2,128 |
| 430 | (Landing At Plymouth Place Project), Series A, 6% due 5/15/2037 | 453 |
| 490 | (Primary Health Care Centers Program), 6.60% due 7/01/2024 | 507 |
| 755 | Lincolnshire, Illinois, Special Service Area Number 1, Special Tax Bonds (Sedgebrook Project), 6.25% due 3/01/2034 | 796 |
| 2,400 | Lombard, Illinois, Public Facilities Corporation, First Tier Revenue Bonds (Conference Center and Hotel), Series A-1, 7.125% due 1/01/2036 | 2,555 |
| 265 | Naperville, Illinois, IDR (General Motors Corporation), Refunding, VRDN, 7.50% due 12/01/2012 (d) | 265 |
| 760 | Village of Wheeling, Illinois, Revenue Bonds (North Milwaukee/Lake-Cook Tax Increment Financing (TIF) Redevelopment Project), 6% due 1/01/2025 | 767 |
| ===== | | |
| Indiana -- 2.0% | | |
| 1,985 | Indiana Health and Educational Facilities Financing Authority, Hospital Revenue Bonds (Community Foundation of Northwest Indiana), 5.50% due 3/01/2037 | 2,010 |
| 820 | Vanderburgh County, Indiana, Redevelopment Commission, Redevelopment District Tax Allocation Bonds, 5.25% due 2/01/2031 | 851 |
| | Vigo County, Indiana, Hospital Authority Revenue Bonds (Union Hospital, Inc.): | |
| 440 | 5.70% due 9/01/2037 | 443 |
| 545 | 5.75% due 9/01/2042 | 548 |
| ===== | | |
| Iowa -- 1.6% | | |
| 2,635 | Iowa Finance Authority, Health Care Facilities, Revenue Refunding Bonds (Care Initiatives Project), 9.25% due 7/01/2011 (a) | 3,156 |
| ===== | | |
| Kansas -- 0.6% | | |
| 1,230 | Wyandotte County, Kansas, Kansas City Unified Government Revenue Refunding Bonds (General Motors Corporation Project), 6% due 6/01/2025 | 1,238 |
| ===== | | |

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| | | | |
|-----------------------|--|--|-------|
| Louisiana -- 0.7% | | | |
| 1,300 | Louisiana Public Facilities Authority, Hospital Revenue Bonds (Franciscan Missionaries of Our Lady Health System, Inc.), Series A, 5.25% due 8/15/2036 | | 1,325 |
| ===== | | | |
| Maine -- 0.4% | | | |
| 840 | Maine Finance Authority, Solid Waste Recycling Facilities Revenue Bonds (Great Northern Paper Project -- Bowater), AMT, 7.75% due 10/01/2022 | | 846 |
| ===== | | | |
| Maryland -- 2.0% | | | |
| 385 | Baltimore, Maryland, Convention Center Hotel Revenue Bonds, Sub-Series B, 5.875% due 9/01/2039 | | 406 |
| 620 | Howard County, Maryland, Retirement Community Revenue Refunding Bonds (Columbia Vantage House Corporation), Series B, 5.25% due 4/01/2037 | | 606 |
| 1,500 | Maryland State Energy Financing Administration, Limited Obligation Revenue Bonds (Cogeneration -- AES Warrior Run), AMT, 7.40% due 9/01/2019 | | 1,509 |
| | Maryland State Health and Higher Educational Facilities Authority Revenue Bonds: | | |
| 1,000 | (King Farm Presbyterian Community), Series A, 5.25% due 1/01/2027 | | 994 |
| 410 | (Washington Christian Academy), 5.50% due 7/01/2038 | | 411 |
| ===== | | | |
| Massachusetts -- 3.4% | | | |
| 1,845 | Massachusetts State Development Finance Agency, First Mortgage Revenue Bonds (Overlook Communities Inc.), Series A, 6.25% due 7/01/2034 | | 1,910 |
| 1,245 | Massachusetts State Development Finance Agency, Revenue Refunding Bonds (Eastern Nazarene College), 5.625% due 4/01/2019 | | 1,269 |
| 850 | Massachusetts State Health and Educational Facilities Authority Revenue Bonds (Jordan Hospital), Series E, 6.75% due 10/01/2033 | | 923 |
| | Massachusetts State Health and Educational Facilities Authority, Revenue Refunding Bonds: | | |
| 1,245 | (Bay Cove Human Services Issue), Series A, 5.90% due 4/01/2028 | | 1,260 |
| 500 | (Milton Hospital), Series, 5.50% due 7/01/2016 | | 505 |
| 800 | Massachusetts State Industrial Finance Agency Revenue Bonds, Sewer Facility (Resource Control Composting), AMT, 9.25% due 6/01/2010 | | 813 |
| ===== | | | |
| Michigan -- 1.3% | | | |
| 1,150 | Macomb County, Michigan, Hospital Finance Authority, Hospital Revenue Bonds (Mount Clemens General Hospital), Series B, 5.875% due 11/15/2034 | | 1,209 |
| 1,260 | Monroe County, Michigan, Hospital Financing Authority, Hospital Revenue Refunding Bonds (Mercy Memorial Hospital Corporation), 5.50% due 6/01/2035 | | 1,304 |
| ===== | | | |
| Missouri -- 1.6% | | | |
| | Branson, Missouri, Regional Airport Transportation Development District, Airport Revenue Bonds: | | |
| 610 | AMT, Series B, 6% due 7/01/2037 | | 603 |
| 265 | Series A, 6% due 7/01/2037 | | 267 |
| 1,155 | Fenton, Missouri, Tax Increment Revenue Refunding and Improvement Bonds (Gravois Bluffs), 7% due 10/01/2011 (a) | | 1,298 |
| 1,000 | Kansas City, Missouri, IDA, First Mortgage Health | | |

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Facilities Revenue Bonds (Bishop Spencer Place),
 Series A, 6.50% due 1/01/2035 1,051

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Schedule of Investments (continued) (in Thousands)

| Face Amount | Municipal Bonds | Value |
|-----------------------|--|--------|
| Nevada -- 0.2% | | |
| \$ 430 | Clark County, Nevada, Improvement District Number 142, Special Assessment Bonds, 6.375% due 8/01/2023 | \$ 443 |
| New Hampshire -- 1.5% | | |
| 835 | New Hampshire Health and Education Facilities Authority, Hospital Revenue Bonds (Catholic Medical Center), 5% due 7/01/2036 | 813 |
| 2,185 | New Hampshire State Business Financing Authority, Solid Waste Disposal Revenue Bonds (Waste Management Inc. Project), AMT, 5.20% due 5/01/2027 | 2,218 |
| New Jersey -- 12.9% | | |
| 6,000 | Camden County, New Jersey, Pollution Control Financing Authority, Solid Waste Resource Recovery, Revenue Refunding Bonds, AMT, Series A, 7.50% due 12/01/2010 | 6,079 |
| 2,170 | New Jersey EDA, Cigarette Tax Revenue Bonds, 5.50% due 6/15/2024 | 2,253 |
| 1,500 | New Jersey EDA, IDR, Refunding (Newark Airport Marriott Hotel), 7% due 10/01/2014 | 1,549 |
| | New Jersey EDA, Retirement Community Revenue Bonds (a): | |
| 1,000 | (Cedar Crest Village Inc. Facility), Series A, 7.25% due 11/15/2011 | 1,131 |
| 3,700 | (Seabrook Village Inc.), Series A, 8.125% due 11/15/2010 | 4,193 |
| | New Jersey EDA, Special Facility Revenue Bonds (Continental Airlines Inc. Project), AMT: | |
| 3,050 | 6.625% due 9/15/2012 | 3,221 |
| 1,000 | 6.25% due 9/15/2029 | 1,031 |
| 1,870 | New Jersey Health Care Facilities Financing Authority Revenue Bonds (Pascack Valley Hospital Association), 6.625% due 7/01/2036 | 1,657 |
| 2,760 | New Jersey State Transportation Trust Fund Authority, Transportation System Revenue Bonds, Series C, 5.05% due 12/15/2035 (b)(c) | 712 |
| | Tobacco Settlement Financing Corporation of New Jersey, Asset-Backed Revenue Bonds: | |
| 1,075 | 7% due 6/01/2013 (a) | 1,242 |
| 1,100 | 5.75% due 6/01/2032 | 1,170 |
| 1,270 | Tobacco Settlement Financing Corporation of New Jersey, Revenue Refunding Bonds, Series 1A, 5% due 6/01/2041 | 1,199 |
| New Mexico -- 2.6% | | |
| 5,000 | Farmington, New Mexico, PCR, Refunding (Tucson Electric Power Company -- San Juan Project), | |

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|------------------------|--|-------|
| | Series A, 6.95% due 10/01/2020 | 5,118 |
| ===== | | |
| New York -- 4.1% | | |
| 1,000 | Dutchess County, New York, IDA, Civic Facility Revenue Bonds (Saint Francis Hospital), Series B, 7.50% due 3/01/2029 | 1,100 |
| 1,890 | Erie County, New York, IDA, Revenue Bonds (Orchard Park CCRC, Inc. Project), Series A, 6% due 11/15/2036 | 1,988 |
| | New York City, New York, City IDA, Civic Facility Revenue Bonds: | |
| 350 | Series C, 6.80% due 6/01/2028 | 380 |
| 830 | (Special Needs Facility Pooled Program), Series C-1, 6.50% due 7/01/2024 | 859 |
| 1,730 | New York City, New York, City IDA, Special Facility Revenue Bonds (British Airways Plc Project), AMT, 7.625% due 12/01/2032 | 1,902 |
| 630 | New York Liberty Development Corporation Revenue Bonds (National Sports Museum Project), Series A, 6.125% due 2/15/2019 | 654 |
| 1,180 | Westchester County, New York, IDA, Continuing Care Retirement, Mortgage Revenue Bonds (Kendal on Hudson Project), Series A, 6.50% due 1/01/2034 | 1,255 |
| ===== | | |
| North Carolina -- 0.7% | | |
| 250 | North Carolina Medical Care Commission, Health Care Facilities, First Mortgage Revenue Refunding Bonds (Salem Towne Project), 5.10% due 10/01/2030 | 245 |
| 1,000 | North Carolina Medical Care Commission, Retirement Facilities, First Mortgage Revenue Bonds (Givens Estates Project), Series A, 6.50% due 7/01/2013 (a) | 1,132 |
| ===== | | |
| Oklahoma -- 0.5% | | |
| 1,025 | Oklahoma State Development Finance Authority, Revenue Refunding Bonds (Saint John Health System), 5% due 2/15/2042 | 1,030 |
| ===== | | |
| Pennsylvania -- 8.2% | | |
| 2,080 | Allegheny County, Pennsylvania, Hospital Development Authority, Health System Revenue Refunding Bonds (West Penn Allegheny Health System), Series A, 5.375% due 11/15/2040 | 2,065 |
| 250 | Allegheny County, Pennsylvania, IDA, Lease Revenue Refunding Bonds (Residential Resources Inc. Project), 5.125% due 9/01/2031 | 251 |
| 1,160 | Bucks County, Pennsylvania, IDA, Retirement Community Revenue Bonds (Ann's Choice Inc.), Series A, 6.125% due 1/01/2025 | 1,222 |
| 1,750 | Chester County, Pennsylvania, Health and Education Facilities Authority, Senior Living Revenue Refunding Bonds (Jenners Pond Inc. Project), 7.625% due 7/01/2012 (a) | 2,047 |
| 600 | Harrisburg, Pennsylvania, Authority, University Revenue Bonds (Harrisburg University of Science), Series B, 6% due 9/01/2036 | 618 |
| 1,825 | Montgomery County, Pennsylvania, Higher Education and Health Authority Revenue Bonds (Faulkeways at Gwynedd Project), 6.75% due 11/15/2009 (a) | 1,959 |
| 1,700 | Montgomery County, Pennsylvania, IDA, Revenue Bonds (Whitemarsh Continuing Care Project), 6.25% due 2/01/2035 | 1,785 |
| 1,600 | Philadelphia, Pennsylvania, Authority for IDR: (Air Cargo), AMT, Series A, 7.50% due 1/01/2025 | 1,734 |

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| | | |
|------------------------|--|-------|
| 4,460 | Commercial Development, 7.75% due 12/01/2017 | 4,469 |
| ===== | | |
| Rhode Island -- 1.0% | | |
| 1,750 | Central Falls, Rhode Island, Detention Facility Corporation, Detention Facility, Revenue Refunding Bonds, 7.25% due 7/15/2035 | 1,943 |
| ===== | | |
| South Carolina -- 3.7% | | |
| | Connector 2000 Association, Inc., South Carolina, Toll Road and Capital Appreciation Revenue Bonds, Senior-Series B (c): | |
| 1,100 | 6.50% due 1/01/2009 | 996 |
| 1,075 | 7.969% due 1/01/2014 | 644 |
| 5,715 | South Carolina Housing Finance and Development Authority, Mortgage Revenue Refunding Bonds, AMT, Series A-2, 5.15% due 7/01/2037 (b) | 5,730 |
| ===== | | |

BLACKROCK APEX MUNICIPAL FUND, INC. JUNE 30, 2007 7

Schedule of Investments (concluded) (in Thousands)

| Face Amount | Municipal Bonds | Value |
|-------------------|--|----------|
| ===== | | |
| Tennessee -- 3.1% | | |
| \$5,000 | Knox County, Tennessee, Health, Educational and Housing Facilities Board, Hospital Facilities Revenue Refunding Bonds (Covenant Health), Series A, 5.03% due 1/01/2037 (c) | \$ 1,032 |
| | Shelby County, Tennessee, Health, Educational and Housing Facilities Board Revenue Bonds (Germantown Village): | |
| 245 | 6.25% due 12/01/2034 | 220 |
| 1,800 | Series A, 7.25% due 12/01/2034 | 1,841 |
| 2,980 | Sullivan County, Tennessee, Health, Educational & Housing Facilities Board, Hospital Revenue Bonds (Wellmont Health System Project), Series C, 5.25% due 9/01/2036 | 3,025 |
| ===== | | |
| Texas -- 5.9% | | |
| 1,000 | Austin, Texas, Convention Center Revenue Bonds (Convention Enterprises Inc.), First Tier, Series A, 6.70% due 1/01/2011 (a) | 1,087 |
| 2,530 | Brazos River Authority, Texas, PCR, Refunding (TXU Energy Company LLC Project), AMT, Series A, 7.70% due 4/01/2033 | 2,876 |
| 1,220 | Brazos River Authority, Texas, Revenue Refunding Bonds (Reliant Energy Inc. Project), Series B, 7.75% due 12/01/2018 | 1,272 |
| 655 | HFDC of Central Texas, Inc., Retirement Facilities Revenue Bonds, Series A, 5.625% due 11/01/2026 | 672 |
| 1,000 | Houston, Texas, Health Facilities Development Corporation, Retirement Facility Revenue Bonds (Buckingham Senior Living Community), Series A, 7.125% due 2/15/2034 | 1,093 |
| 875 | Kerrville, Texas, Health Facilities Development Corporation, Hospital Revenue Bonds (Sid Peterson Memorial Hospital Project), 5.375% due 8/15/2035 | 896 |
| 2,310 | Matagorda County, Texas, Navigation District Number 1, | |

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| | | |
|-----------------------------|--|-----------|
| | Revenue Refunding Bonds (Reliant Energy Inc.), Series C, 8% due 5/01/2029 | 2,409 |
| 1,330 | Port Corpus Christi, Texas, Individual Development Corporation, Environmental Facilities Revenue Bonds (Citgo Petroleum Corporation Project), AMT, 8.25% due 11/01/2031 | 1,360 |
| ===== | | |
| Utah -- 1.2% | | |
| 2,240 | Carbon County, Utah, Solid Waste Disposal, Revenue Refunding Bonds (Laidlaw Environmental), AMT, Series A, 7.45% due 7/01/2017 | 2,289 |
| ===== | | |
| Virginia -- 3.3% | | |
| | Dulles Town Center, Virginia, Community Development Authority, Special Assessment Tax (Dulles Town Center Project), 6.25% due 3/01/2026 | |
| 900 | Fairfax County, Virginia, EDA, Residential Care Facilities, Mortgage Revenue Refunding Bonds (Goodwin House, Inc.), 5.125% due 10/01/2042 | 894 |
| 310 | Farms of New Kent, Virginia, Community Development Authority, Special Assessment Bonds, Series C, 5.80% due 3/01/2036 | 307 |
| 595 | Lexington, Virginia, IDA, Residential Care Facility, Mortgage Revenue Refunding Bonds (Kendal at Lexington), Series A, 5.50% due 1/01/2037 | 592 |
| 725 | Suffolk, Virginia, IDA, Retirement Facilities, Revenue Refunding Bonds (Lake Prince Center), 5.15% due 9/01/2024 | 732 |
| 1,500 | Tobacco Settlement Financing Corporation of Virginia, Revenue Refunding Bonds, Senior Series B-1, 5% due 6/01/2047 | 1,433 |
| ===== | | |
| Washington -- 0.6% | | |
| 1,200 | Washington State Housing Financing Commission, Nonprofit Revenue Bonds (Skyline at First Hill Project), Series A, 5.625% due 1/01/2038 | 1,212 |
| ===== | | |
| West Virginia -- 0.6% | | |
| 1,125 | Princeton, West Virginia, Hospital Revenue Refunding Bonds (Community Hospital Association Inc. Project), 6.20% due 5/01/2013 | 1,126 |
| ===== | | |
| Wisconsin -- 0.7% | | |
| 1,320 | Wisconsin State Health and Educational Facilities Authority Revenue Bonds (New Castle Place Project), Series A, 7% due 12/01/2031 | 1,367 |
| ===== | | |
| U.S. Virgin Islands -- 1.2% | | |
| 2,100 | Virgin Islands Government Refinery Facilities, Revenue Refunding Bonds (Hovenssa Coker Project), AMT, 6.50% due 7/01/2021 | 2,340 |
| ===== | | |
| | Total Investments (Cost -- \$187,391*) -- 100.1% | 197,016 |
| | Liabilities in Excess of Other Assets -- (0.1)% | (190) |
| | Net Assets -- 100.0% | \$196,826 |
| ===== | | |

* The cost and unrealized appreciation (depreciation) of investments as of June 30, 2007, as computed for federal income tax purposes, were as follows:

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| | |
|-------------------------------------|------------|
| Aggregate cost | \$ 186,972 |
| | ===== |
| Gross unrealized appreciation | \$ 11,092 |
| Gross unrealized depreciation | (1,048) |
| | ----- |
| Net unrealized appreciation | \$ 10,044 |
| | ===== |

- (a) Prerefunded.
- (b) AMBAC Insured.
- (c) Represents a zero coupon bond; the interest rate shown reflects the effective yield at the time of purchase.
- (d) Security may have a maturity of more than one year at time of issuance, but has variable rate and demand features that qualify it as a short-term security. The rate disclosed is that currently in effect. This rate changes periodically based upon prevailing market rates.
- o Forward interest rate swaps outstanding as of June 30, 2007 were as follows:

| | Notional Amount | Unrealized Depreciation |
|---|-----------------|-------------------------|
| Received a fixed rate of 5.39% and pay a floating rate based on 3-month LIBOR | | |
| Broker, Deutsche Bank | | |
| Expires August 2017 | \$9,550 | \$ (179) |

- o 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:

| Affiliate | Net Activity | Dividend Income |
|---|--------------|-----------------|
| Merrill Lynch Institutional Tax-Exempt Fund | (1,101) | \$62 |

See Notes to Financial Statements.

8 BLACKROCK APEX MUNICIPAL FUND, INC. JUNE 30, 2007

Statement of Assets, Liabilities and Capital

As of June 30, 2007

Assets

| | |
|--|--|
| Investments in unaffiliated securities, at value (identified cost -- \$187,391,080) .. | |
| Cash | |
| Receivables: | |
| Interest receivable | |
| Securities sold | |

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Prepaid expenses
Total assets

Liabilities

Unrealized depreciation on forward interest rate swaps
Payables:
 Securities purchased
 Dividends to shareholders
 Investment adviser
 Other affiliates
Accrued expenses
Total liabilities

Net Assets

Net Assets

Capital

Common Stock, \$.10 par value, 150,000,000 shares authorized; 19,774,218 shares issued
and outstanding
Paid-in capital in excess of par
Undistributed investment income -- net
Accumulated realized capital losses -- net
Unrealized appreciation -- net
Total accumulated losses -- net
Total capital -- Equivalent to \$9.95 net asset value per share of Common Stock
(market price -- \$10.23)

See Notes to Financial Statements.

BLACKROCK APEX MUNICIPAL FUND, INC.

JUNE 30, 2007

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Statement of Operations

For the Year Ended June 30, 2007

Investment Income

Interest
Dividends from affiliates
Total income

Expenses

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Investment advisory fees
 Accounting services
 Professional fees
 Printing and shareholder reports
 Transfer agent fees
 Pricing fees
 Directors' fees and expenses
 Custodian fees
 Listing fees
 Other

Total expenses before reimbursement
 Reimbursement of expenses

Total expenses after reimbursement

Investment income -- net

=====
 Realized & Unrealized Gain (Loss) -- Net
 =====

Realized loss on investments -- net
 Change in unrealized appreciation/depreciation on:
 Investments -- net
 Forward interest rate swaps -- net

Total realized and unrealized gain -- net

Net Increase in Net Assets Resulting from Operations

See Notes to Financial Statements.

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BLACKROCK APEX MUNICIPAL FUND, INC.

JUNE 30, 2007

Statements of Changes in Net Assets

Increase (Decrease) in Net Assets:

=====
 Operations
 =====

Investment income -- net
 Realized gain (loss) -- net
 Change in unrealized appreciation/depreciation -- net

Net increase in net assets resulting from operations

=====
 Dividends to Shareholders
 =====

Investment income -- net

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Net decrease in net assets resulting from dividends to shareholders

=====
Common Stock Transactions

Net increase in net assets derived from Common Stock issued to shareholders in
reinvestment of dividends

=====
Net Assets

Total increase in net assets

Beginning of year

End of year*

* Undistributed investment income -- net

See Notes to Financial Statements.

BLACKROCK APEX MUNICIPAL FUND, INC.

JUNE 30, 2007

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The following per share data and ratios
have been derived from information
provided in the financial statements.

For th
2007 2006

=====
Per Share Operating Performance

| | | |
|--|----------|----------|
| Net asset value, beginning of year | \$ 9.90 | \$ 9.82 |
| Investment income -- net*** | .58 | .58 |
| Realized and unrealized gain (loss) -- net | .06 | .08 |
| Total from investment operations | .64 | .66 |
| Less dividends and distributions to Common Stock shareholders: | | |
| Investment income -- net | (.59) | (.58) |
| Realized gain -- net | -- | -- |
| Total dividends and distributions to Common Stock shareholders | (.59) | (.58) |
| Net asset value, end of year | \$ 9.95 | \$ 9.90 |
| Market price per share, end of year | \$ 10.23 | \$ 10.25 |

=====
Total Investment Return*

| | | |
|--|-------|--------|
| Based on net asset value per share | 6.48% | 7.00% |
| Based on market price per share | 5.73% | 14.76% |

=====
Ratios to Average Net Assets

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| | | |
|--|-----------|-----------|
| Expenses, net of reimbursement | .80% | .80% |
| | | |
| Expenses | .80% | .81% |
| | | |
| Investment income -- net | 5.75% | 5.83% |
| | | |
| Supplemental Data | | |
| | | |
| Net assets, end of year (in thousands) | \$196,826 | \$194,646 |
| | | |
| Portfolio turnover | 22% | 19% |
| | | |

* Total investment returns based on market value, which can be significantly greater or lesser than the net asset value, may result in substantially different returns. Total investment returns exclude the effects of sales charges.

** Amount is less than \$(.01) per share.

*** Based on average shares outstanding.

See Notes to Financial Statements.

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JUNE 30, 2007

Notes to Financial Statements

1. Significant Accounting Policies:

On September 29, 2006, Apex Municipal Fund, Inc. was renamed BlackRock Apex Municipal Fund, Inc. (the "Fund"). The Fund is registered under the Investment Company Act of 1940, as amended, as a non-diversified, closed-end management investment company. The Fund's financial statements are prepared in conformity with U.S. generally accepted accounting principles, which may require the use of management accruals and estimates. Actual results may differ from these estimates. The Fund determines, and makes available for publication, the net asset value of its Common Stock on a daily basis. The Fund's Common Stock shares are listed on the New York Stock Exchange under the symbol APX. The following is a summary of significant accounting policies followed by the Fund.

(a) Valuation of investments -- Municipal bonds are traded primarily in the over-the-counter ("OTC") markets and are valued at the last available bid price in the OTC market or on the basis of values as obtained by a pricing service. Pricing services use valuation matrixes that incorporate both dealer-supplied valuations and valuation models. The procedures of the pricing service and its valuations are reviewed by the officers of the Fund under the general direction of the Board of Directors. Such valuations and procedures are reviewed periodically by the Board of Directors of the Fund. Financial futures contracts and options thereon, which are traded on exchanges, are valued at their closing prices as of the close of such exchanges. Options written or purchased are valued at the last sale price in the case of exchange-traded options. Options traded in the OTC market are valued at the last asked price (options written) or the last bid price (options purchased). Swap agreements are valued by quoted fair values received daily by the Fund's pricing service. Investments in open-end investment companies are valued at their net asset value each business day. Securities and other assets for which market quotations are not readily available are valued at fair value as determined in good faith by or under the direction of the Board of Directors of the Fund.

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(b) Derivative financial instruments -- The Fund may engage in various portfolio investment strategies both to increase the return of the Fund and to hedge, or protect, its exposure to interest rate movements and movements in the securities markets. Losses may arise due to changes in the value of the contract due to an unfavorable change in the price of the underlying security or if the counterparty does not perform under the contract. The counterparty for certain instruments may pledge cash or securities as collateral.

- o Financial futures contracts -- The Fund may purchase or sell financial futures contracts and options on such financial futures contracts. Financial futures contracts are contracts for delayed delivery of securities at a specific future date and at a specific price or yield. Upon entering into a contract, the Fund deposits, and maintains as collateral, such initial margin as required by the exchange on which the transaction is effected. Pursuant to the contract, the Fund agrees to receive from or pay to the broker an amount of cash equal to the daily fluctuation in value of the contract. Such receipts or payments are known as variation margin and are recorded by the Fund as unrealized gains or losses. When the contract is closed, the Fund records a realized gain or loss equal to the difference between the value of the contract at the time it was opened and the value at the time it was closed.
- o Options -- The Fund may write covered call options and purchase put options. When the Fund writes an option, an amount equal to the premium received by the Fund is reflected as an asset and an equivalent liability. The amount of the liability is subsequently marked-to-market to reflect the current market value of the option written. When a security is purchased or sold through an exercise of an option, the related premium paid (or received) is added to (or deducted from) the basis of the security acquired or deducted from (or added to) the proceeds of the security sold. When an option expires (or the Fund enters into a closing transaction), the Fund realizes a gain or loss on the option to the extent of the premiums received or paid (or gain or loss to the extent the cost of the closing transaction exceeds the premium paid or received).

Written and purchased options are non-income producing investments.

- o Forward interest rate swaps -- The Fund may enter into forward interest rate swaps. In a forward interest rate swap, the Fund and the counterparty agree to make periodic net payments on a specified notional contract amount, commencing on a specified future effective date, unless terminated earlier. When the agreement is closed, the Fund records a realized gain or loss in an amount equal to the value of the agreement.
- o Swaps -- The Fund may enter into swap agreements, which are OTC contracts in which the Fund and a counterparty agree to make periodic net payments on a specified notional amount. The net payments can be made for a set period of time or may be triggered by a pre-determined credit event. The net periodic payments may

BLACKROCK APEX MUNICIPAL FUND, INC.

JUNE 30, 2007

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Notes to Financial Statements (continued)

be based on a fixed or variable interest rate; the change in market value of a specified security, basket of securities, or index; or the return generated by a security. These periodic payments received or made by the Fund are recorded in the accompanying Statement of Operations as realized gains or losses, respectively. Gains or losses are also realized upon termination of the swap agreements. Swaps are marked-to-market daily and

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changes in value are recorded as unrealized appreciation (depreciation). Risks include changes in the returns of the underlying instruments, failure of the counterparties to perform under the contracts' terms and the possible lack of liquidity with respect to the swap agreements.

(c) Income taxes -- It is the Fund's policy to comply with the requirements of the Internal Revenue Code applicable to regulated investment companies and to distribute substantially all of its taxable income to its shareholders. Therefore, no federal income tax provision is required.

(d) Security transactions and investment income -- Security transactions are recorded on the dates the transactions are entered into (the trade dates). Realized gains and losses on security transactions are determined on the identified cost basis. Interest income is recognized on the accrual basis. The Fund amortizes all premiums and discounts on debt securities.

(e) Dividends and distributions -- Dividends from net investment income are declared daily and paid monthly. Distributions of capital gains are recorded on the ex-dividend dates.

(f) Recent accounting pronouncements -- In July 2006, the Financial Accounting Standards Board ("FASB ") issued Interpretation No. 48 ("FIN 48"), "Accounting for Uncertainty in Income Taxes -- an interpretation of FASB Statement No. 109." FIN 48 prescribes the minimum recognition threshold a tax position must meet in connection with accounting for uncertainties in income tax positions taken or expected to be taken by an entity, including mutual funds, before being measured and recognized in the financial statements. Adoption of FIN 48 is required for the last net asset value calculation in the first required financial statement reporting period for fiscal years beginning after December 15, 2006. The impact on the Fund's financial statements, if any, is currently being assessed.

In September 2006, Statement of Financial Accounting Standards No. 157, "Fair Value Measurements" ("FAS 157"), was issued and is effective for fiscal years beginning after November 15, 2007. FAS 157 defines fair value, establishes a framework for measuring fair value and expands disclosures about fair value measurements. At this time, management is evaluating the implications of FAS 157 and its impact on the Fund's financial statements, if any, has not been determined.

In addition, in February 2007, FASB issued Statement of Financial Accounting Standards No. 159, "The Fair Value Option for Financial Assets and Financial Liabilities" ("FAS 159"), which is effective for fiscal years beginning after November 15, 2007. Early adoption is permitted as of the beginning of a fiscal year that begins on or before November 15, 2007, provided the entity also elects to apply the provisions of FAS 157. FAS 159 permits entities to choose to measure many financial instruments and certain other items at fair value that are not currently required to be measured at fair value. FAS 159 also establishes presentation and disclosure requirements designed to facilitate comparisons between entities that choose different measurement attributes for similar types of assets and liabilities. At this time, management is evaluating the implications of FAS 159 and its impact on the Fund's financial statements, if any, has not been determined.

(g) Reclassification -- U.S. generally accepted accounting principles require that certain components of net assets be adjusted to reflect permanent differences between financial and tax reporting. Accordingly, during the current year, \$18,704 has been reclassified between undistributed net investment income and accumulated net realized capital losses. This reclassification is the result of permanent differences attributable to securities in default. This reclassification has no effect on the net assets or net asset values per share.

2. Investment Advisory Agreement and Transactions with Affiliates:

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On September 29, 2006, BlackRock, Inc. and Merrill Lynch & Co., Inc. ("Merrill Lynch") combined Merrill Lynch's investment management business, Merrill Lynch Investment Managers, L.P. and its affiliates, including Fund Asset Management, L.P. ("FAM"), with BlackRock, Inc. to create a new independent company. Merrill Lynch has a 49.8% economic interest and a 45% voting interest in the combined company and The PNC Financial Services Group, Inc. has approximately a 34% economic and voting interest. The new company operates under the BlackRock name and is governed by a board of directors with a majority of independent members.

On August 15, 2006, shareholders of the Fund approved a new Investment Advisory Agreement with BlackRock Advisors, Inc. BlackRock Advisors, Inc. was reorganized into a

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JUNE 30, 2007

Notes to Financial Statements (concluded)

limited liability company and renamed BlackRock Advisors, LLC (the "Manager"), an indirect, wholly owned subsidiary of BlackRock, Inc. The new Investment Advisory Agreement between the Fund and the Manager became effective on September 29, 2006. Prior to September 29, 2006, FAM was the Fund's manager. The general partner of FAM is an indirect, wholly owned subsidiary of Merrill Lynch, which is the limited partner.

The Manager is responsible for the management of the Fund's portfolio and provides the necessary personnel, facilities, equipment and certain other services necessary to the operations of the Fund. For such services, the Fund pays a monthly fee at an annual rate of .65% of the Fund's average daily net assets. In addition, the Manager has entered into a sub-advisory agreement with BlackRock Investment Management, LLC ("BIM"), an affiliate of the Manager, under which the Manager pays BIM for services it provides a fee that is a percentage of the management fee paid by the Fund to the Manager. The Manager (and previously FAM) has agreed to reimburse its management fee by the amount of management fees the Fund pays to the Manager (and previously FAM) indirectly through its investment in Merrill Lynch Institutional Tax-Exempt Fund. For the period July 1, 2006 to September 29, 2006, FAM reimbursed the Fund \$1,381 and for the period September 30, 2006 to June 30, 2007 the Manager reimbursed the Fund \$2,183.

For the year ended June 30, 2007, the Fund reimbursed FAM and the Manager \$1,166 and \$2,856, respectively, for certain accounting services.

Prior to September 29, 2006, certain officers and/or directors of the Fund were officers and/or directors of FAM and/or Merrill Lynch.

Commencing September 29, 2006, certain officers and/or directors of the Fund are officers and/or directors of BlackRock, Inc. or its affiliates.

3. Investments:

Purchases and sales of investments, excluding short-term securities, for the year ended June 30, 2007 were \$58,699,769 and \$43,364,117, respectively.

4. Common Stock Transactions:

At June 30, 2007, the Fund had one class of shares of Common Stock, par value \$.10 per share, of which 150,000,000 shares were authorized.

Shares issued and outstanding for the year ended June 30, 2007 increased by

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104,307 as a result of dividend reinvestment. Shares issued and outstanding for the year ended June 30, 2006 increased by 73,179 as a result of dividend reinvestment.

5. Distributions to Shareholders:

The Fund paid a tax-exempt income dividend to holders of Common Stock in the amount of \$.049000 per share on August 1, 2007 to shareholders of record on July 16, 2007.

The tax character of distributions paid during the fiscal years ended June 30, 2007 and June 30, 2006 was as follows:

| | 6/30/2007 | 6/30/2006 |
|---------------------------|--------------|--------------|
| Distributions paid from: | | |
| Tax-exempt income | \$11,596,069 | \$11,421,420 |
| Total distributions | \$11,596,069 | \$11,421,420 |
| | ===== | ===== |

As of June 30, 2007, the components of accumulated losses on a tax basis were as follows:

| | |
|--|----------------|
| Undistributed tax-exempt income -- net | \$ 1,461,403 |
| Undistributed long-term capital gains -- net | -- |
| Total undistributed earnings -- net | 1,461,403 |
| Capital loss carryforward | (16,891,061)* |
| Unrealized gains -- net | 9,865,762** |
| Total accumulated losses -- net | \$ (5,563,896) |
| | ===== |

* On June 30, 2007, the Fund had a net capital loss carryforward of \$16,891,061, of which \$2,542,361 expires in 2008, \$5,341,699 expires in 2009, \$2,075,987 expires in 2010, \$2,163,492 expires in 2011, \$1,659,281 expires in 2012, \$35,292 expires in 2013 and \$3,072,949 expires in 2015. This amount will be available to offset like amounts of any future taxable gains.

** The difference between book-basis and tax-basis net unrealized gains is attributable primarily to the difference between book and tax amortization methods for premiums and discounts on fixed income securities.

BLACKROCK APEX MUNICIPAL FUND, INC.

JUNE 30, 2007

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Report of Independent Registered Public Accounting Firm

To the Shareholders and Board of Directors of BlackRock Apex Municipal Fund, Inc.:

We have audited the accompanying statement of assets, liabilities and capital, including the schedule of investments, of BlackRock Apex Municipal Fund, Inc. (formerly Apex Municipal Fund, Inc.) as of June 30, 2007, and the related statement of operations for the year then ended, the statements of changes in net assets for each of the two years in the period then ended, and the financial highlights for each of the five years in the period then ended. These financial statements and financial highlights are the responsibility of the Fund's

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management. Our responsibility is to express an opinion on the financial statements and financial highlights based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements and financial highlights are free of material misstatement. The Fund is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Fund's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. Our procedures included confirmation of securities owned as of June 30, 2007, by correspondence with the custodian and brokers; where replies were not received from brokers, we performed other auditing procedures. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements and financial highlights referred to above present fairly, in all material respects, the financial position of BlackRock Apex Municipal Fund, Inc. as of June 30, 2007, the results of its operations for the year then ended, the changes in its net assets for each of the two years in the period then ended, and its financial highlights for each of the five years in the period then ended, in conformity with accounting principles generally accepted in the United States of America.

Deloitte & Touche LLP
Princeton, New Jersey
August 21, 2007

Fund Certification (Unaudited)

In May 2007, the Fund filed its Chief Executive Officer Certification for the prior year with the New York Stock Exchange pursuant to Section 303A.12(a) of the New York Stock Exchange Corporate Governance Listing Standards.

The Fund's Chief Executive Officer and Chief Financial Officer Certifications pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 were filed with the Fund's Forms N-CSR and are available on the Securities and Exchange Commission's Web site at <http://www.sec.gov>.

Important Tax Information (Unaudited)

All of the net investment income distributions paid monthly by BlackRock Apex Municipal Fund, Inc. during the taxable year ended June 30, 2007 qualify as tax-exempt interest dividends for federal income tax purposes.

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BLACKROCK APEX MUNICIPAL FUND, INC.

JUNE 30, 2007

Automatic Dividend Reinvestment Plan

How the Plan Works -- The Fund offers a Dividend Reinvestment Plan (the "Plan") under which income and capital gains dividends paid by the Fund are automatically reinvested in additional shares of Common Stock of the Fund. The Plan is administered on behalf of the shareholders by The Bank of New York (the "Plan Agent"). Under the Plan, whenever the Fund declares a dividend,

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participants in the Plan will receive the equivalent in shares of Common Stock of the Fund. The Plan Agent will acquire the shares for the participant's account either (i) through receipt of additional unissued but authorized shares of the Fund ("newly issued shares") or (ii) by purchase of outstanding shares of Common Stock on the open market on the New York Stock Exchange or elsewhere. If, on the dividend payment date, the Fund's net asset value per share is equal to or less than the market price per share plus estimated brokerage commissions (a condition often referred to as a "market premium"), the Plan Agent will invest the dividend amount in newly issued shares. If the Fund's net asset value per share is greater than the market price per share (a condition often referred to as a "market discount"), the Plan Agent will invest the dividend amount by purchasing on the open market additional shares. If the Plan Agent is unable to invest the full dividend amount in open market purchases, or if the market discount shifts to a market premium during the purchase period, the Plan Agent will invest any uninvested portion in newly issued shares. The shares acquired are credited to each shareholder's account. The amount credited is determined by dividing the dollar amount of the dividend by either (i) when the shares are newly issued, the net asset value per share on the date the shares are issued or (ii) when shares are purchased in the open market, the average purchase price per share.

Participation in the Plan -- Participation in the Plan is automatic, that is, a shareholder is automatically enrolled in the Plan when he or she purchases shares of Common Stock of the Fund unless the shareholder specifically elects not to participate in the Plan. Shareholders who elect not to participate will receive all dividend distributions in cash. Shareholders who do not wish to participate in the Plan must advise the Plan Agent in writing (at the address set forth below) that they elect not to participate in the Plan. Participation in the Plan is completely voluntary and may be terminated or resumed at any time without penalty by writing to the Plan Agent.

Benefits of the Plan -- The Plan provides an easy, convenient way for shareholders to make additional, regular investments in the Fund. The Plan promotes a long-term strategy of investing at a lower cost. All shares acquired pursuant to the Plan receive voting rights. In addition, if the market price plus commissions of the Fund's shares is above the net asset value, participants in the Plan will receive shares of the Fund for less than they could otherwise purchase them and with a cash value greater than the value of any cash distribution they would have received. However, there may not be enough shares available in the market to make distributions in shares at prices below the net asset value. Also, since the Fund does not redeem shares, the price on resale may be more or less than the net asset value.

Plan Fees -- There are no enrollment fees or brokerage fees for participating in the Plan. The Plan Agent's service fees for handling the reinvestment of distributions are paid for by the Fund. However, brokerage commissions may be incurred when the Fund purchases shares on the open market and shareholders will pay a pro rata share of any such commissions.

Tax Implications -- The automatic reinvestment of dividends and distributions will not relieve participants of any federal, state or local income tax that may be payable (or required to be withheld) on such dividends. Therefore, income and capital gains may still be realized even though shareholders do not receive cash. The value of shares acquired pursuant to the Plan will generally be excluded from gross income to the extent that the cash amount reinvested would be excluded from gross income. If, when the Fund's shares are trading at a market premium, the Fund issues shares pursuant to the Plan that have a greater fair market value than the amount of cash reinvested, it is possible that all or a portion of the discount from the market value (which may not exceed 5% of the fair market value of the Fund's shares) could be viewed as a taxable distribution. If the discount is viewed as a taxable distribution, it is also possible that the taxable character of this discount would be allocable to all

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the shareholders, including shareholders who do not participate in the Plan. Thus, shareholders who do not participate in the Plan might be required to report as ordinary income a portion of their distributions equal to their allocable share of the discount.

Contact Information -- All correspondence concerning the Plan, including any questions about the Plan, should be directed to the Plan Agent at The Bank of New York, Church Street Station, P.O. Box 11258, New York, NY 10286-1258, Telephone: 800-432-8224.

BLACKROCK APEX MUNICIPAL FUND, INC.

JUNE 30, 2007

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Officers and Directors

| Name | Address & Age | Position(s) Held with Fund | Length of Time Served | Principal Occupation(s) During Past 5 Years |
|---------------------------------------|---|--------------------------------------|-----------------------------|--|
| ----- Interested Director ----- | | | | |
| Robert C. Doll, Jr.* | P.O. Box 9011 Princeton, NJ 08543-9011 Age: 52 | Fund President and Director | 2005 to present | Vice Chairman and Director of BlackRock, Inc., Global Chief Investment Officer for Equities, Chairman of the BlackRock Retail Operating Committee, and member of the BlackRock Executive Committee since 2006; President of the funds advised by Merrill Lynch Investment Managers, L.P. ("MLIM") and its affiliates ("MLIM/FAM-advised funds") from 2005 to 2006 and Chief Investment Officer thereof from 2001 to 2006; President of MLIM and Fund Asset Management, L.P. ("FAM") from 2001 to 2006; Co-Head (Americas Region) thereof from 2000 to 2001 and Senior Vice President from 1999 to 2001; President and Director of Princeton Services, Inc. ("Princeton Services") and President of Princeton Administrators, L.P. ("Princeton Administrators") from 2001 to 2006; Chief Investment Officer of OppenheimerFunds, Inc. in 1999 and Executive Vice President thereof from 1991 to 1999. |

* Mr. Doll is a director, trustee or member of an advisory board of certain other BlackRock Advisors, LLC and its affiliates act as investment adviser. Mr. Doll defined in the Investment Company Act, of the Fund based on his positions with Directors serve until their resignation, removal or death, or until December 31. As Fund President, Mr. Doll serves at the pleasure of the Board of Directors.

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BLACKROCK APEX MUNICIPAL FUND, INC.

JUNE 30, 2007

Officers and Directors (continued)

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| Name | Address & Age | Position(s) Held with Fund | Length of Time Served | Principal Occupation(s) During Past 5 Years |
|--|---|----------------------------------|-----------------------------|--|
| ----- Independent Directors* ----- | | | | |
| James H. Bodurtha** | P.O. Box 9095 Princeton, NJ 08543-9095 Age: 63 | Director | 2002 to present | Director, The China Business Group, Inc. since 1996 and Executive Vice President thereof from 1996 to 2003; Chairman of the Board, Berkshire Holding Corporation since 1980; Partner, Squire, Sanders & Dempsey from 1980 to 1993. |
| Kenneth A. Froot | P.O. Box 9095 Princeton, NJ 08543-9095 Age: 49 | Director | 2005 to present | Professor, Harvard University since 1992; Professor, Massachusetts Institute of Technology from 1986 to 1992. |
| Joe Grills** | P.O. Box 9095 Princeton, NJ 08543-9095 Age: 72 | Director | 1994 to present | Member of the Committee of Investment of Employee Benefit Assets of the Association of Financial Professionals ("CIEBA") since 1986; Member of CIEBA's Executive Committee since 1988 and its Chairman from 1991 to 1992; Assistant Treasurer of International Business Machines Corporation ("IBM") and Chief Investment Officer of IBM Retirement Funds from 1986 to 1993; Member of the Investment Advisory Committee of the State of New York Common Retirement Fund from 1989 to 2006; Member of the Investment Advisory Committee of the Howard Hughes Medical Institute from 1997 to 2000; Director, Duke University Management Company from 1992 to 2004, Vice Chairman thereof from 1998 to 2004, and Director Emeritus thereof since 2004; Director, LaSalle Street Fund from 1995 to 2001; Director, Kimco Realty Corporation since 1997; Member of the Investment Advisory Committee of the Virginia Retirement System since 1998, Vice Chairman thereof from 2002 to 2005, and Chairman thereof since 2005; Director, Montpelier Foundation since 1998, its Vice Chairman from 2000 to 2006, and Chairman thereof, since 2006; Member of the Investment Committee of the Woodberry Forest School since 2000; Member of the Investment Committee of the National Trust for Historic Preservation since 2000. |

BLACKROCK APEX MUNICIPAL FUND, INC.

JUNE 30, 2007

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Officers and Directors (continued)

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| Name | Address & Age | Position(s) Held with Fund | Length of Time Served | Principal Occupation(s) During Past 5 Years |
|--|---|----------------------------------|-----------------------------|--|
| ----- Independent Directors* (concluded) ----- | | | | |
| Herbert I. London | P.O. Box 9095 Princeton, NJ 08543-9095 Age: 68 | Director | 2002 to present | Professor Emeritus, New York University since 2005; John M. Olin Professor of Humanities, New York University from 1993 to 2005 and Professor thereof from 1980 to 2005; President, Hudson Institute since 1997 and Trustee thereof since 1997; Dean, Gallatin Division of New York University from 1976 to 1993; Distinguished Fellow, Herman Kahn Chair, Hudson Institute from 1984 to 1985; Chairman of the Board of Directors of Vigilant Research, Inc. since 2006; Member of the Board of Directors for Grantham University since 2006; Director of AIMS since 2006; Director of Reflex Security since 2006; Director of InnoCentive, Inc. since 2006; Director of Cerego, LLC since 2005; Director, Damon Corp. from 1991 to 1995; Overseer, Center for Naval Analyses from 1983 to 1993. |
| Roberta Cooper Ramo | P.O. Box 9095 Princeton, NJ 08543-9095 Age: 64 | Director | 2002 to present | Shareholder, Modrall, Sperling, Roehl, Harris & Sisk, P.A. since 1993; President, American Bar Association from 1995 to 1996 and Member of the Board of Governors thereof from 1994 to 1997; Shareholder, Poole, Kelly & Ramo, Attorney at Law, P.C. from 1977 to 1993; Director of ECMC Group (service provider to students, schools and lenders) since 2001; Director, United New Mexico Bank (now Wells Fargo) from 1983 to 1988; Director, First National Bank of New Mexico (now Wells Fargo) from 1975 to 1976; Vice President, American Law Institute since 2004. |
| Robert S. Salomon, Jr. | P.O. Box 9095 Princeton, NJ 08543-9095 Age: 70 | Director | 1996 to present | Principal of STI Management (investment adviser) from 1994 to 2005; Chairman and CEO of Salomon Brothers Asset Management Inc. from 1992 to 1995; Chairman of Salomon Brothers Equity Mutual Funds from 1992 to 1995; regular columnist with Forbes Magazine from 1992 to 2002; Director of Stock Research and U.S. Equity Strategist at Salomon Brothers Inc. from 1975 to 1991; Trustee, Common Fund from 1980 to 2001. |

* Directors serve until their resignation, removal or death, or until December 31
** Co-Chairman of the Board of Directors and the Audit Committee.

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| Name | Address & Age | Position(s) Held with Fund | Length of Time Served | Principal Occupation(s) During Past 5 Years |
|---------------------|---|---------------------------------------|---|--|
| Fund Officers* | | | | |
| Donald C. Burke | P.O. Box 9011 Princeton, NJ 08543-9011 Age: 47 | Vice President and Treasurer | 1993 to present and 1999 to present | Managing Director of BlackRock, Inc. since 2006; Investment Managers, L.P. ("MLIM") and Fund Asse First Vice President of MLIM and FAM from 1997 t 1999 to 2006; Vice President of MLIM and FAM fro |
| Karen Clark | P.O. Box 9011 Princeton, NJ 08543-9011 Age: 42 | Fund Chief Compliance Officer | 2007 to present | Managing Director of BlackRock, Inc. and Chief C BlackRock-advised funds since 2007; Director of Principal and Senior Compliance Officer, State S 2005; Principal Consultant, PricewaterhouseCoope Branch Chief, Division of Investment Management Inspections and Examinations, U.S. Securities an to 1998. |
| Alice A. Pellegrino | P.O. Box 9011 Princeton, NJ 08543-9011 Age: 47 | Secretary | 2004 to present | Director of BlackRock, Inc. since 2006; Director to 2006; Vice President of MLIM from 1999 to 200 from 1997 to 1999; Secretary of MLIM, FAM, FAM D Services from 2004 to 2006. |

* Officers of the Fund serve at the pleasure of the Board of Directors.

Custodian

The Bank of New York
100 Church Street
New York, NY 10286

Transfer Agent

The Bank of New York
101 Barclay Street -- 11 East
New York, NY 10286

BLACKROCK APEX MUNICIPAL FUND, INC.

JUNE 30, 2007

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Swap Agreements

The Fund may invest in swap agreements, which are over-the-counter contracts in which one party agrees to make periodic payments based on the change in market value of a specified bond, basket of bonds, or index in return for periodic payments based on a fixed or variable interest rate or the change in market value of a different bond, basket of bonds or index. Swap agreements may be used to obtain exposure to a bond or market without owning or taking physical custody of securities. Swap agreements involve the risk that the party with whom the Fund has entered into a swap will default on its obligation to pay the Fund and the risk that the Fund will not be able to meet its obligations to pay the other party to the agreement. The swap agreements in which the Fund may invest includes credit default swap agreements.

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BLACKROCK APEX MUNICIPAL FUND, INC.

JUNE 30, 2007

BlackRock Privacy Principles

BlackRock is committed to maintaining the privacy of its current and former fund investors and individual clients (collectively, "Clients") and to safeguarding their non-public personal information. The following information is provided to help you understand what personal information BlackRock collects, how we protect that information and why in certain cases we share such information with select parties.

If you are located in a jurisdiction where specific laws, rules or regulations require BlackRock to provide you with additional or different privacy-related rights beyond what is set forth below, then BlackRock will comply with those specific laws, rules or regulations.

BlackRock obtains or verifies personal non-public information from and about you from different sources, including the following: (i) information we receive from you or, if applicable, your financial intermediary, on applications, forms or other documents; (ii) information about your transactions with us, our affiliates, or others; (iii) information we receive from a consumer reporting agency; and (iv) from visits to our Web sites.

BlackRock does not sell or disclose to non-affiliated third parties any non-public personal information about its Clients, except as permitted by law or as is necessary to respond to regulatory requests or to service Client accounts. These non-affiliated third parties are required to protect the confidentiality and security of this information and to use it only for its intended purpose.

We may share information with our affiliates to service your account or to provide you with information about other BlackRock products or services that may be of interest to you. In addition, BlackRock restricts access to non-public personal information about its Clients to those BlackRock employees with a legitimate business need for the information. BlackRock maintains physical, electronic and procedural safeguards that are designed to protect the non-public personal information of its Clients, including procedures relating to the proper storage and disposal of such information.

Availability of Quarterly Schedule of Investments

The Fund files its complete schedule of portfolio holdings with the Securities and Exchange Commission ("SEC") for the first and third quarters of each fiscal year on Form N-Q. The Fund's Forms N-Q are available on the SEC's Web site at <http://www.sec.gov>. The Fund's Forms N-Q may also be reviewed and copied at the SEC's Public Reference Room in Washington, DC. Information on the operation of the Public Reference Room may be obtained by calling 1-800-SEC-0330.

BLACKROCK APEX MUNICIPAL FUND, INC.

JUNE 30, 2007

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BlackRock Apex Municipal Fund, Inc. seeks to provide shareholders with high current income exempt from federal income taxes by investing primarily in a portfolio of medium-to-lower grade or unrated municipal obligations, the interest on which is exempt from federal income taxes in the opinion of bond counsel to the issuer.

This report, including the financial information herein, is transmitted to shareholders of BlackRock Apex Municipal Fund, Inc. for their information. It is not a prospectus. Past performance results shown in this report should not be considered a representation of future performance. Statements and other

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information herein are as dated and are subject to change.

A description of the policies and procedures that the Fund uses to determine how to vote proxies relating to portfolio securities is available (1) without charge, upon request, by calling toll-free 1-800-441-7762; (2) at www.blackrock.com; and (3) on the Securities and Exchange Commission's Web site at <http://www.sec.gov>. Information about how the Fund voted proxies relating to securities held in the Fund's portfolio during the most recent 12-month period ended June 30 is available (1) at www.blackrock.com and (2) on the Securities and Exchange Commission's Web site at <http://www.sec.gov>.

BlackRock Apex Municipal Fund, Inc.
P.O. Box 9011
Princeton, NJ 08543-9011

BLACKROCK

#10955-6/07

Item 2 - Code of Ethics - The registrant has adopted a code of ethics, as of the end of the period covered by this report, that applies to the registrant's principal executive officer, principal financial officer and principal accounting officer, or persons performing similar functions. A copy of the code of ethics is available without charge at www.blackrock.com.

Item 3 - Audit Committee Financial Expert - The registrant's board of directors has determined that (i) the registrant has the following audit committee financial experts serving on its audit committee and (ii) each audit committee financial expert is independent: (1) Joe Grills and (2) Robert S. Salomon, Jr.

Item 4 - Principal Accountant Fees and Services

| | |
|------------------|--|
| (a) Audit Fees - | Fiscal Year Ended June 30, 2007 - \$28,000 |
| | Fiscal Year Ended June 30, 2006 - \$28,000 |

| | |
|--------------------------|---------------------------------------|
| (b) Audit-Related Fees - | Fiscal Year Ended June 30, 2007 - \$0 |
| | Fiscal Year Ended June 30, 2006 - \$0 |

| | |
|----------------|---|
| (c) Tax Fees - | Fiscal Year Ended June 30, 2007 - \$6,100 |
| | Fiscal Year Ended June 30, 2006 - \$6,000 |

The nature of the services include tax compliance, tax advice and tax planning.

| | |
|----------------------|---------------------------------------|
| (d) All Other Fees - | Fiscal Year Ended June 30, 2007 - \$0 |
| | Fiscal Year Ended June 30, 2006 - \$0 |

(e) (1) The registrant's audit committee (the "Committee") has adopted policies and procedures with regard to the pre-approval of services. Audit, audit-related and tax compliance services provided to the registrant on an annual basis require specific pre-approval by the Committee. The Committee also must approve other non-audit services provided to the registrant and those non-audit services provided to the registrant's affiliated service providers that relate directly to the operations and the financial reporting of the registrant. Certain of these non-audit services that the Committee believes are a) consistent with the SEC's auditor independence rules and b) routine and recurring services that will not impair the independence of the independent accountants may be approved by the

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Committee without consideration on a specific case-by-case basis ("general pre-approval"). However, such services will only be deemed pre-approved provided that any individual project does not exceed \$5,000 attributable to the registrant or \$50,000 for all of the registrants the Committee oversees. Any proposed services exceeding the pre-approved cost levels will require specific pre-approval by the Committee, as will any other services not subject to general pre-approval (e.g., unanticipated but permissible services). The Committee is informed of each service approved subject to general pre-approval at the next regularly scheduled in-person board meeting.

(e) (2) 0%

(f) Not Applicable

(g) Fiscal Year Ended June 30, 2007 - \$2,967,000
Fiscal Year Ended June 30, 2006 - \$2,815,800

(h) The registrant's audit committee has considered and determined that the provision of non-audit services that were rendered to the

registrant's investment adviser and any entity controlling, controlled by, or under common control with the investment adviser that provides ongoing services to the registrant that were not pre-approved pursuant to paragraph (c) (7) (ii) of Rule 2-01 of Regulation S-X is compatible with maintaining the principal accountant's independence.

Regulation S-X Rule 2-01(c) (7) (ii) - \$1,735,000, 0%

Item 5 - Audit Committee of Listed Registrants - The following individuals are members of the registrant's separately-designated standing audit committee established in accordance with Section 3(a) (58) (A) of the Exchange Act (15 U.S.C. 78c(a) (58) (A)):

James H. Bodurtha
Kenneth A. Froot
Joe Grills
Herbert I. London
Roberta Cooper Ramo
Robert S. Salomon, Jr.

Item 6 - Schedule of Investments - The registrant's Schedule of Investments is included as part of the Report to Stockholders filed under Item 1 of this form.

Item 7 - Disclosure of Proxy Voting Policies and Procedures for Closed-End Management Investment Companies - Proxy Voting Policies and Procedures Applicable to the Fund

Each Fund's Board of Directors has delegated to the Manager authority to vote all proxies relating to the Fund's portfolio securities. The Manager has adopted policies and procedures (the "Proxy Voting Procedures") with respect to the voting of proxies related to the portfolio securities held in the account of one or more of its clients, including a Fund. Pursuant to these Proxy Voting Procedures, the Manager's primary objective when voting proxies is to make proxy voting decisions solely in the best interests of each Fund and its shareholders, and to act in a manner

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that the Manager believes is most likely to enhance the economic value of the securities held by the Fund. The Proxy Voting Procedures are designed to ensure that the Manager considers the interests of its clients, including each Fund, and not the interests of the Manager, when voting proxies and that real (or perceived) material conflicts that may arise between the Manager's interest and those of the Manager's clients are properly addressed and resolved.

In order to implement the Proxy Voting Procedures, the Manager has formed a Proxy Voting Committee (the "Committee"). The Committee, which is a subcommittee of the Manager's Equity Investment Policy Oversight Committee ("EIPOC"), is comprised of a senior member of the Manager's equity management group who is also a member of EIPOC, one or more other senior investment professionals appointed by EIPOC, portfolio managers and investment analysts appointed by EIPOC and any other personnel EIPOC deems appropriate. The Committee will also include two non-voting representatives from the Manager's Legal Department appointed by the Manager's General Counsel. The Committee's membership shall be limited to full-time employees of the Manager. No person with any investment banking, trading, retail brokerage or research responsibilities for the Manager's affiliates may serve as a member of the Committee or participate in its decision making (except to the extent such person is asked by the Committee to present information to the Committee on the same basis

as other interested knowledgeable parties not affiliated with the Manager might be asked to do so). The Committee determines how to vote the proxies of all clients, including a Fund, that have delegated proxy voting authority to the Manager and seeks to ensure that all votes are consistent with the best interests of those clients and are free from unwarranted and inappropriate influences. The Committee establishes general proxy voting policies for the Manager and is responsible for determining how those policies are applied to specific proxy votes, in light of each issuer's unique structure, management, strategic options and, in certain circumstances, probable economic and other anticipated consequences of alternate actions. In so doing, the Committee may determine to vote a particular proxy in a manner contrary to its generally stated policies. In addition, the Committee will be responsible for ensuring that all reporting and recordkeeping requirements related to proxy voting are fulfilled.

The Committee may determine that the subject matter of a recurring proxy issue is not suitable for general voting policies and requires a case-by-case determination. In such cases, the Committee may elect not to adopt a specific voting policy applicable to that issue. The Manager believes that certain proxy voting issues require investment analysis - such as approval of mergers and other significant corporate transactions - akin to investment decisions, and are, therefore, not suitable for general guidelines. The Committee may elect to adopt a common position for the Manager on certain proxy votes that are akin to investment decisions, or determine to permit the portfolio manager to make individual decisions on how best to maximize economic value for a Fund (similar to normal buy/sell investment decisions made by such portfolio managers). While it is expected that the Manager will generally seek to vote proxies over which the Manager exercises voting authority in a uniform manner for all the Manager's clients, the Committee, in conjunction with a Fund's portfolio manager, may determine that the Fund's specific circumstances require that its proxies be voted differently.

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To assist the Manager in voting proxies, the Committee has retained Institutional Shareholder Services ("ISS"). ISS is an independent adviser that specializes in providing a variety of fiduciary-level proxy-related services to institutional investment managers, plan sponsors, custodians, consultants, and other institutional investors. The services provided to the Manager by ISS include in-depth research, voting recommendations (although the Manager is not obligated to follow such recommendations), vote execution, and recordkeeping. ISS will also assist the Fund in fulfilling its reporting and recordkeeping obligations under the Investment Company Act.

The Manager's Proxy Voting Procedures also address special circumstances that can arise in connection with proxy voting. For instance, under the Proxy Voting Procedures, the Manager generally will not seek to vote proxies related to portfolio securities that are on loan, although it may do so under certain circumstances. In addition, the Manager will vote proxies related to securities of foreign issuers only on a best efforts basis and may elect not to vote at all in certain countries where the Committee determines that the costs associated with voting generally outweigh the benefits. The Committee may at any time override these general policies if it determines that such action is in the best interests of a Fund.

From time to time, the Manager may be required to vote proxies in respect of an issuer where an affiliate of the Manager (each, an "Affiliate"), or a money management or other client of the Manager, including investment companies for which the Manager provides investment advisory, administrative and/or other services (each, a "Client"), is involved. The Proxy Voting Procedures and the

Manager's adherence to those procedures are designed to address such conflicts of interest. The Committee intends to strictly adhere to the Proxy Voting Procedures in all proxy matters, including matters involving Affiliates and Clients. If, however, an issue representing a non-routine matter that is material to an Affiliate or a widely known Client is involved such that the Committee does not reasonably believe it is able to follow its guidelines (or if the particular proxy matter is not addressed by the guidelines) and vote impartially, the Committee may, in its discretion for the purposes of ensuring that an independent determination is reached, retain an independent fiduciary to advise the Committee on how to vote or to cast votes on behalf of the Manager's clients.

In the event that the Committee determines not to retain an independent fiduciary, or it does not follow the advice of such an independent fiduciary, the Committee may pass the voting power to a subcommittee, appointed by EIPOC (with advice from the Secretary of the Committee), consisting solely of Committee members selected by EIPOC. EIPOC shall appoint to the subcommittee, where appropriate, only persons whose job responsibilities do not include contact with the Client and whose job evaluations would not be affected by the Manager's relationship with the Client (or failure to retain such relationship). The subcommittee shall determine whether and how to vote all proxies on behalf of the Manager's clients or, if the proxy matter is, in their judgment, akin to an investment decision, to defer to the applicable portfolio managers, provided that, if the subcommittee determines to alter the Manager's normal voting guidelines or, on matters where the Manager's policy is

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case-by-case, does not follow the voting recommendation of any proxy voting service or other independent fiduciary that may be retained to provide research or advice to the Manager on that matter, no proxies relating to the Client may be voted unless the Secretary, or in the Secretary's absence, the Assistant Secretary of the Committee concurs that the subcommittee's determination is consistent with the Manager's fiduciary duties.

In addition to the general principles outlined above, the Manager has adopted voting guidelines with respect to certain recurring proxy issues that are not expected to involve unusual circumstances. These policies are guidelines only, and the Manager may elect to vote differently from the recommendation set forth in a voting guideline if the Committee determines that it is in a Fund's best interest to do so. In addition, the guidelines may be reviewed at any time upon the request of a Committee member and may be amended or deleted upon the vote of a majority of Committee members present at a Committee meeting at which there is a quorum.

The Manager has adopted specific voting guidelines with respect to the following proxy issues:

- o Proposals related to the composition of the board of directors of issuers other than investment companies. As a general matter, the Committee believes that a company's board of directors (rather than shareholders) is most likely to have access to important, nonpublic information regarding a company's business and prospects, and is, therefore, best-positioned to set corporate policy and oversee management. The Committee, therefore, believes that the foundation of good corporate governance is the election of qualified, independent corporate directors who are likely to diligently represent the interests of shareholders and oversee management of the corporation in a manner that will seek to maximize shareholder value over time. In individual cases, the Committee may look at a nominee's number of other directorships, history of representing shareholder interests as a director of other companies or other factors, to the extent the Committee deems relevant.

- o Proposals related to the selection of an issuer's independent auditors. As a general matter, the Committee believes that corporate auditors have a responsibility to represent the interests of shareholders and provide an independent view on the propriety of financial reporting decisions of corporate management. While the Committee will generally defer to a corporation's choice of auditor, in individual cases, the Committee may look at an auditors' history of representing shareholder interests as auditor of other companies, to the extent the Committee deems relevant.

- o Proposals related to management compensation and employee benefits. As a general matter, the Committee favors disclosure of an issuer's compensation and benefit policies and opposes excessive compensation, but believes that compensation matters are normally best determined by an issuer's board of directors, rather than shareholders. Proposals to "micro-manage" an issuer's compensation practices or to set arbitrary restrictions on compensation or benefits will, therefore, generally not be supported.

- o Proposals related to requests, principally from management, for approval of amendments that would alter an issuer's capital structure. As a general matter, the Committee will support requests

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that enhance the rights of common shareholders and oppose requests that appear to be unreasonably dilutive.

o Proposals related to requests for approval of amendments to an issuer's charter or by-laws. As a general matter, the Committee opposes poison pill provisions.

o Routine proposals related to requests regarding the formalities of corporate meetings.

o Proposals related to proxy issues associated solely with holdings of investment company shares. As with other types of companies, the Committee believes that a fund's board of directors (rather than its shareholders) is best positioned to set fund policy and oversee management. However, the Committee opposes granting boards of directors authority over certain matters, such as changes to a fund's investment objective, which the Investment Company Act envisions will be approved directly by shareholders.

o Proposals related to limiting corporate conduct in some manner that relates to the shareholder's environmental or social concerns. The Committee generally believes that annual shareholder meetings are inappropriate forums for discussion of larger social issues, and opposes shareholder resolutions "micromanaging" corporate conduct or requesting release of information that would not help a shareholder evaluate an investment in the corporation as an economic matter. While the Committee is generally supportive of proposals to require corporate disclosure of matters that seem relevant and material to the economic interests of shareholders, the Committee is generally not supportive of proposals to require disclosure of corporate matters for other purposes.

Information about how a Fund voted proxies relating to securities held in the Fund's portfolio during the most recent 12 month period ended June 30 is available without charge (1) at www.blackrock.com and (2) on the Commission's web site at <http://www.sec.gov>.

Item 8 - Portfolio Managers of Closed-End Management Investment Companies - as of June 30, 2007.

(a) (1) BlackRock Apex Municipal Fund, Inc. is managed by a team of investment professionals comprised of Theodore R. Jaeckel, Jr., CFA, Managing Director at BlackRock, and Walter O'Connor, Managing Director at BlackRock. Each is a member of BlackRock's municipal tax-exempt management group. Mr. Jaeckel and Mr. O'Connor are responsible for setting the Fund's overall investment strategy and

overseeing the management of the Fund. Mr. Jaeckel is the Fund's lead portfolio manager and is responsible for the day-to-day management of the Fund's portfolio and the selection of its investments. Mr. O'Connor has been a member of the Fund's management team since 2006 and Mr. Jaeckel has been the Fund's portfolio manager since 1997.

Mr. Jaeckel joined BlackRock in 2006. Prior to joining BlackRock, he was a Managing Director (Municipal Tax-Exempt Fund Management) of Merrill Lynch Investment Managers, L.P. ("MLIM") from 2005 to 2006 and a Director of MLIM from 1997 to 2005. He has been a portfolio manager with BlackRock or MLIM since 1991.

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Mr. O'Connor joined BlackRock in 2006. Prior to joining BlackRock, he was a Managing Director (Municipal Tax-Exempt Fund Management) of MLIM from 2003 to 2006 and was a Director of MLIM from 1997 to 2002. He has been a portfolio manager with BlackRock or MLIM since 1991.

(a) (2) As of June 30, 2007:

| (i) Name of Portfolio Manager | (ii) Number of Other Accounts Managed and Assets by Account Type | | | (iii) Number of Other Accounts for Which Advisory Performance-Based | |
|-------------------------------|--|----------------------------------|----------------|---|----------------------------------|
| | Other Registered Investment Companies | Other Pooled Investment Vehicles | Other Accounts | Other Registered Investment Companies | Other Pooled Investment Vehicles |
| Theodore R. Jaeckel, Jr. | 80 | 0 | 1 | 0 | 0 |
| | \$28,783,239,309 | \$0 | \$34,091,152 | \$0 | \$0 |
| Walter O'Connor | 80 | 0 | 0 | 0 | 0 |
| | \$28,783,239,309 | \$0 | \$0 | \$0 | \$0 |

(iv) Potential Material Conflicts of Interest

BlackRock has built a professional working environment, firm-wide compliance culture and compliance procedures and systems designed to protect against potential incentives that may favor one account over another. BlackRock has adopted policies and procedures that address the allocation of investment opportunities, execution of portfolio transactions, personal trading by employees and other potential conflicts of interest that are designed to ensure that all client accounts are treated equitably over time. Nevertheless, BlackRock furnishes investment management and advisory services to numerous clients in addition to the Fund, and BlackRock may, consistent with applicable law, make investment recommendations to other clients or accounts (including accounts which are hedge funds or have performance or higher fees paid to BlackRock, or in which portfolio managers have a personal interest in the receipt of such fees), which may be the same as or different from those made to the Fund. In addition, BlackRock, its affiliates and any officer, director, stockholder or employee may or may not have an interest in the securities whose purchase and sale BlackRock recommends to the Fund. BlackRock, or any of its affiliates, or any officer, director, stockholder, employee or any member of their families may take different actions than those recommended to the Fund by BlackRock with respect to the same securities. Moreover, BlackRock may refrain from rendering any advice or services concerning securities of companies of which any of BlackRock's (or its affiliates') officers, directors or employees are directors or officers, or companies as to which BlackRock or any of its affiliates or the officers, directors and employees of any of them has any substantial economic interest

or possesses material non-public information. Each portfolio manager also may manage accounts whose investment strategies may at times be opposed to the strategy utilized for the Fund. In this connection, it should be noted that certain portfolio managers currently manage certain accounts that are subject to performance fees. In addition, certain portfolio managers assist in managing certain hedge funds and may be entitled to receive a portion of any incentive fees earned on such funds and a portion of such incentive fees may be voluntarily or involuntarily deferred. Additional portfolio managers may in the future manage other such accounts or funds and may be entitled to receive incentive fees.

As a fiduciary, BlackRock owes a duty of loyalty to its clients and must treat each client fairly. When BlackRock purchases or sells securities for more than one account, the trades must be allocated in a manner consistent with its fiduciary duties. BlackRock attempts to allocate investments in a fair and equitable manner among client accounts, with no account receiving preferential treatment. To this end, BlackRock has adopted a policy that is intended to ensure that investment opportunities are allocated fairly and equitably among client accounts over time. This policy also seeks to achieve reasonable efficiency in client transactions and provide BlackRock with sufficient flexibility to allocate investments in a manner that is consistent with the particular investment discipline and client base.

(a) (3) As of June 30, 2007:

Portfolio Manager Compensation

The elements of total compensation for portfolio managers on BlackRock's municipal team include a fixed base salary, annual performance-based cash and stock compensation (cash and stock bonus) and other benefits. BlackRock has balanced these components of pay to provide these portfolio managers with a powerful incentive to achieve consistently superior investment performance. By design, compensation levels for these portfolio managers fluctuate--both up and down--with the relative investment performance of the portfolios that they manage.

Base compensation. Like that of many asset management firms, base salaries represent a relatively small portion of a portfolio manager's total compensation. This approach serves to enhance the motivational value of the performance-based (and therefore variable) compensation elements of the compensation program.

Performance-Based Compensation. BlackRock believes that the best interests of investors are served by recruiting and retaining exceptional asset management talent and managing their compensation within a consistent and disciplined framework that emphasizes pay for performance in the context of an intensely competitive market for talent. To that end, BlackRock and its affiliates portfolio manager incentive compensation is based on a formulaic compensation program. BlackRock's formulaic portfolio manager compensation program includes: investment performance relative to a subset of closed-end, high yield, municipal debt funds over 1-, 3- and 5-year performance periods and a measure of operational efficiency. Portfolio managers are compensated based on the pre-tax performance of the products they manage. If a portfolio manager's tenure is less than 5 years, performance periods will reflect time in position. Portfolio managers are compensated based on products they manage. A

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discretionary element of portfolio manager compensation may include consideration of: financial results, expense control, profit margins, strategic planning and implementation, quality of client

service, market share, corporate reputation, capital allocation, compliance and risk control, leadership, workforce diversity, supervision, technology and innovation. All factors are considered collectively by BlackRock management.

Cash Bonus

Performance-based compensation is distributed to portfolio managers in a combination of cash and stock. Typically, the cash bonus, when combined with base salary, represents more than 60% of total compensation for portfolio managers.

Stock Bonus

A portion of the dollar value of the total annual performance-based bonus is paid in restricted shares of BlackRock stock. Paying a portion of annual bonuses in stock puts compensation earned by a portfolio manager for a given year "at risk" based on the company's ability to sustain and improve its performance over future periods. The ultimate value of stock bonuses is dependent on future BlackRock stock price performance. As such, the stock bonus aligns each portfolio manager's financial interests with those of the BlackRock shareholders and encourages a balance between short-term goals and long-term strategic objectives. Management strongly believes that providing a significant portion of competitive performance-based compensation in stock is in the best interests of investors and shareholders. This approach ensures that portfolio managers participate as shareholders in both the "downside risk" and "upside opportunity" of the company's performance. Portfolio managers therefore have a direct incentive to protect BlackRock's reputation for integrity.

Other Compensation Programs

Portfolio managers who meet relative investment performance and financial management objectives during a performance year are eligible to participate in a deferred cash program. Awards under this program are in the form of deferred cash that may be benchmarked to a menu of BlackRock mutual funds (including their own fund) during a five-year vesting period. The deferred cash program aligns the interests of participating portfolio managers with the investment results of BlackRock products and promotes continuity of successful portfolio management teams.

Other Benefits

Portfolio managers are also eligible to participate in broad-based plans offered generally to employees of BlackRock and its affiliates, including broad-based retirement, 401(k), health, and other employee benefit plans.

- (a) (4) Beneficial Ownership of Securities. As of June 30, 2007, neither Mr. Jaeckel nor Mr. O'Connor beneficially owned any stock issued by the Fund.

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Company and Affiliated Purchasers - Not Applicable

Item 10 - Submission of Matters to a Vote of Security Holders - The registrant's Nominating Committee will consider nominees to the Board recommended by shareholders when a vacancy becomes available. Shareholders who wish to recommend a nominee should send nominations which include biographical information and set forth the qualifications of the proposed nominee to the registrant's Secretary. There have been no material changes to these procedures.

Item 11 - Controls and Procedures

11(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 and Exchange Act of 1934, as amended.

11(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 (17 CFR 270.30a-3(d)) that occurred during the second fiscal quarter of the period covered by this report that have materially affected, or are reasonably likely to materially affect, the registrant's internal control over financial reporting.

Item 12 - Exhibits attached hereto

12(a) (1) - Code of Ethics - See Item 2

12(a) (2) - Certifications - Attached hereto

12(a) (3) - Not Applicable

12(b) - 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 Apex Municipal Fund, Inc.

By: /s/ Robert C. Doll, Jr.

Robert C. Doll, Jr.,
Chief Executive Officer of
BlackRock Apex Municipal Fund, Inc.

Date: August 20, 2007

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.

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By: /s/ Robert C. Doll, Jr.

Robert C. Doll, Jr.,
Chief Executive Officer of
BlackRock Apex Municipal Fund, Inc.

Date: August 20, 2007

By: /s/ Donald C. Burke

Donald C. Burke,
Chief Financial Officer of
BlackRock Apex Municipal Fund, Inc.

Date: August 20, 2007