# Port of Houston Authority OPEB Trust

Investment Performance Review Period Ended September 30, 2016





I am delighted to announce that we will be rebranding our firm early next year to reflect our enduring commitment to true independence and our firm's desire to always put our clients first.

In September of 2000, our founder, Joe Bogdahn, started Bogdahn Consulting, LLC. In an industry dominated by brokerage firms and conflicted service models, he realized early on that only true independence would provide the platform for an institutional consulting firm to offer objective advice and guide clients through an increasingly challenging world. Joe shared his vision with me soon thereafter; I quickly appreciated the power of the independent model and our shared desire to put the client first in every aspect of our business dealings.

As the firm has evolved and grown over the past 16 years, and as we have recruited talented employees and businesses from around the country, this foundation remains the bedrock of what we do and think about every day – always putting our clients' interests first. We are very proud of the service culture we created and continue to foster within our firm.

As an important milestone, we recently transitioned the majority ownership of the firm from our founder to the next generation of leaders. We believe this was a very important step in solidifying our business and ensuring we can continue to serve clients without interruption or disruption in our core servicing philosophy of "clients first". Our employees continue to exemplify a relentless pursuit of serving our clients within an independent structure every day.

The timing of this rebrand corresponds with the expansion of employee ownership and participation, as well as our collective passion of putting clients first in everything we do. While the change will occur early in 2017, we wanted to share this exciting news with you as early as possible. Until then, please contact your consulting team to keep you up to date with developments along the way.

We appreciate your business and the opportunity to serve you. Here, our clients will always be first.

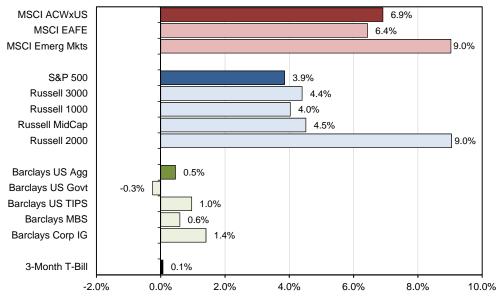
Sincerely,

Mike Welker President/CEO

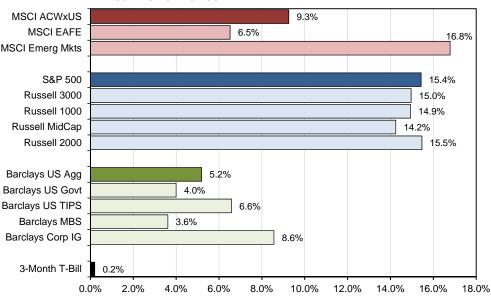


- Asset class returns were broadly positive for the 3rd quarter as global markets continued to rebound from the late June shock caused by the U.K.'s decision to leave the European Union. Investment returns also benefited from continued expansionary global central bank policies as well as general improvement in economic data. Domestic and international equity, particularly small cap and emerging markets, easily outperformed bonds as investor sentiment shifted once again to a "risk-on" posture. Returns for the trailing twelve months illustrated a similar pattern with higher risk assets generally outperforming defensive investments.
- Equity market indices were positive for the 3rd guarter and the 1-year period. Domestic stock market returns represented by the Russell 3000 Index have been solid, returning 4.4% for the 3rd quarter and 15.0% over the trailing year. Within domestic stocks, the small cap index doubled the performance of other domestic indices with a return of 9.0% for the quarter. This strong outperformance for the quarter also elevated the small cap benchmark marginally past the return of domestic equity indices for the 1-year period. Similar to domestic equity results, international equity indices also yielded robust performance for the 3rd quarter. In U.S. Dollar (USD) terms, the MSCI ACWI ex U.S. Index (net) appreciated 6.9% for the quarter and 9.3% over the last year. The Emerging market index posted its third straight quarter of outperformance relative to developed market MSCI-EAFE Index (net). The MSCI Emerging Market Index (net) posted returns of 9.0% and 16.8%, respective, for the 3rd quarter and 1year period versus returns of 6.4% and 6.5% for the MSCI EAFE Index (net).
- Despite a brief drop in yields at the start of the 3rd quarter, the U.S. Treasury yield curve moved higher as interest rates rose moderately across the maturity spectrum. This upward shift in the yield curve caused U.S. Government bonds to post negative returns for the quarter. In contrast, the investment grade corporate and mortgage-backed bond components of the Aggregate benchmark managed to post positive performance for the quarter. Investment grade corporate issues benefited from increased demand for yield, which led to tightening credit spreads throughout the quarter, particularly in lower credit quality issues.



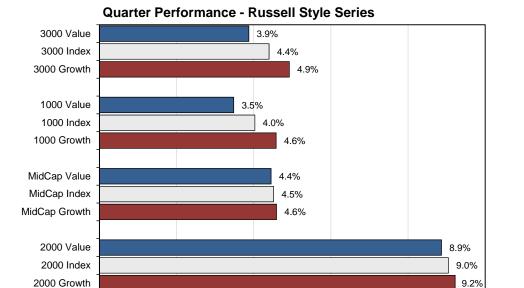


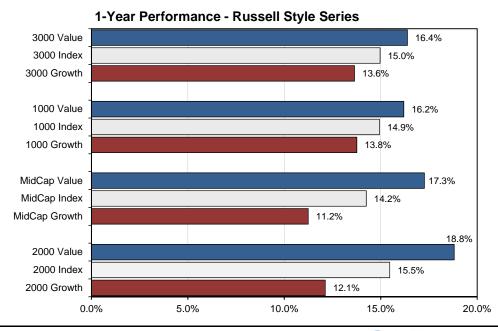
#### 1-Year Performance





- U.S. equity index returns were positive across the style and capitalization spectrum during the 3rd quarter. The enthusiasm from generally better than expected 2nd quarter earnings and positive macroeconomic data early in the quarter were tempered by rising expectations the U.S. Federal Reserve (Fed) would tighten monetary policy by increasing short-term interest rates in September. While the Fed ultimately decided to leave short-term interest rates unchanged, Fed Chair Janet Yellen provided guidance that the case for a rate increase had been "strengthened", increasing the odds of a rate hike before the end of the year, but likely not until after the November election cycle.
- Growth stocks marginally outpaced value stocks across the capitalization spectrum for the 3rd quarter, reversing the trend of value outperformance for the first half of 2016. Growth index results were led by investors seeking the potential return premium associated with faster growing companies. Growth index performance also benefited from larger weights to Information Technology, the best performing economic sector for the 3rd quarter. As with the core indices, small cap style benchmarks were the best performers across the capitalization spectrum, doubling their mid and large cap counterparts. Despite a strong 3rd quarter for growth indices, the style-based performance reverses over the 1-year period with the more defensive value indices outpacing growth indices across the capitalization spectrum.
- From a valuation perspective, equity valuations appear stretched relative to historical levels based on their forward Price/Earnings ratios (P/E). Even the most attractively valued indices are trading modestly above their historical valuation averages. The large and mid cap growth indices trade at valuations near their respective historical average, while the remaining indices range between 106% and 114% of their 15-year averages.





4.0%

6.0%

8.0%

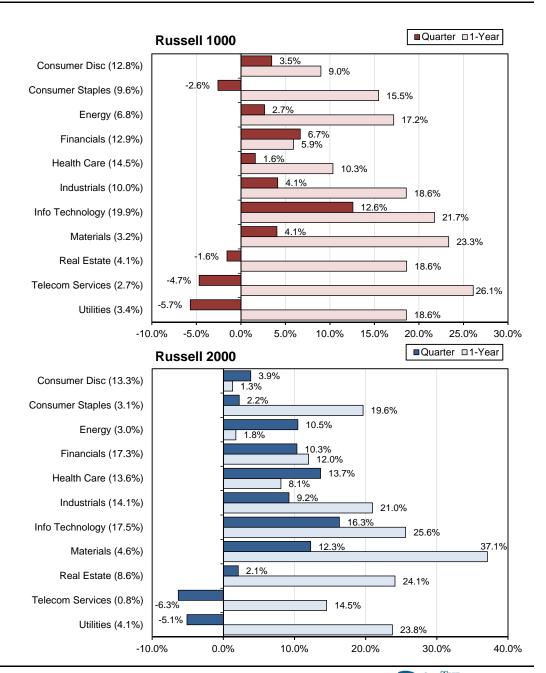
10.0%

2.0%

0.0%



- Large cap sector performance was polarizing for the 3rd quarter with a performance span of 18.3% between the best and worst performing sectors. Seven of eleven sectors within the Russell 1000 Index posting gains for the period but only four economic sectors outpaced the 4.0% return of the broad Russell 1000 index. The Information Technology sector was the quarter's best performer. The sector's return of 12.6% was supported by a strong earnings season. Financial securities also performed notably well, returning 6.7%, as market participants considered the heightened possibility of a near-term interest rate hike. The prospect of higher interest rates represented a headwind to more defensive sectors. reversing a trend of outperformance in the Utilities, Real Estate, Telecommunications and Consumers Staples sectors. Utilities were the worst performers, returning -5.7% for the quarter. Sector performance over the 1-year period has been remarkably solid with all eleven economic sectors posting positive results, and nine posting double-digit returns. Despite its negative performance for the 3rd quarter, the Telecommunications sector was the best performer over the 1-year period with a return of 26.1%. Financial stocks have struggled relative to other sectors over the 1-year period as the persistent low interest rate environment continues to inhibit bank profits.
- Small cap sector performance was generally positive for the 3rd quarter with nine of eleven sectors advancing. However, much like large cap sector results, the performance span between the best and worst performing sectors was a large 22.6% for the period. While the trends observable in the large cap index generally persisted in the small cap benchmark, small cap sector performance outpaced the respective large cap sector result in ten of eleven sectors. Also similar to large cap issues, higher yielding, defensive sectors lagged the more cyclical, economically sensitive sectors. Over the 1-year period, higher dividend paying Real Estate, Utilities and Telecommunications sectors posted double-digit performance despite their relatively weak 3rd quarter results. Although positive, the Consumer Discretionary and Energy sectors lagged over the 1-year period returning 1.3% and 1.8% respectively.
- Using the S&P 500 as a proxy, forward P/E ratios for six GICS sectors were below their long-term (20-year) averages at quarter-end. The Information Technology and Telecommunications sectors were trading at the largest discount to their long-term average P/E ratios. In contrast, Energy and Utilities sector valuations were the most extended relative to their historical P/E ratios.





Top 10 Weighted Stocks							
Russell 1000	Weight	Weight 1-Qtr 1-Year Return Return		Sector			
Apple Inc	2.96%	18.9%	4.7%	Information Technology			
Microsoft Corp	2.08%	13.3%	33.7%	Information Technology			
Exxon Mobil Corp	1.74%	-6.1%	21.6%	Energy			
Amazon.com Inc	1.56%	17.0%	63.6%	Consumer Discretionary			
Johnson & Johnson	1.55%	-2.0%	30.2%	Health Care			
Facebook Inc A	1.38%	12.2%	42.7%	Information Technology			
Berkshire Hathaway Inc B	1.31%	-0.2%	10.8%	Financials			
General Electric Co	1.30%	-5.2%	21.1%	Industrials			
AT&T Inc	1.20%	-5.0%	31.2%	Telecommunication Services			
JPMorgan Chase & Co	1.16%	8.0%	12.5%	Financials			

Top 10 Weighted Stocks							
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector			
Microsemi Corp	0.27%	28.5%	27.9%	Information Technology			
Advanced Micro Devices Inc	0.26%	34.4%	301.7%	Information Technology			
Gramercy Ppty Tr	0.23%	5.7%	54.8%	Real Estate			
Curtiss-Wright Corp	0.23%	8.1%	46.7%	Industrials			
Idacorp Inc	0.23%	-3.2%	24.4%	Utilities			
Healthcare Realty Trust Inc	0.22%	-1.8%	42.7%	Real Estate			
Aspen Technology Inc	0.22%	16.3%	23.4%	Information Technology			
Fair Isaac Corp	0.22%	10.3%	47.6%	Information Technology			
Cepheid	0.22%	71.3%	16.6%	Health Care			
Portland General Electric Co	0.22%	-2.8%	18.8%	Utilities			

Top 10 Performing Stocks (by Quarter)							
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector			
Puma Biotechnology Inc	0.00%	125.1%	-11.0%	Health Care			
The Chemours Co	0.00%	94.7%	151.1%	Materials			
Genworth Financial Inc	0.00%	92.2%	7.4%	Financials			
Lumentum Holdings Inc	0.00%	72.6%	146.4%	Information Technology			
Copa Holdings SA Class A	0.01%	69.3%	118.4%	Industrials			
Groupon Inc	0.01%	58.5%	58.0%	Consumer Discretionary			
Ionis Pharmaceuticals Inc	0.02%	57.3%	-9.4%	Health Care			
bluebird bio Inc	0.00%	56.6%	-20.8%	Health Care			
GoPro Inc A	0.00%	54.3%	-46.6%	Consumer Discretionary			
Penske Automotive Group Inc	0.01%	54.2%	2.3%	Consumer Discretionary			

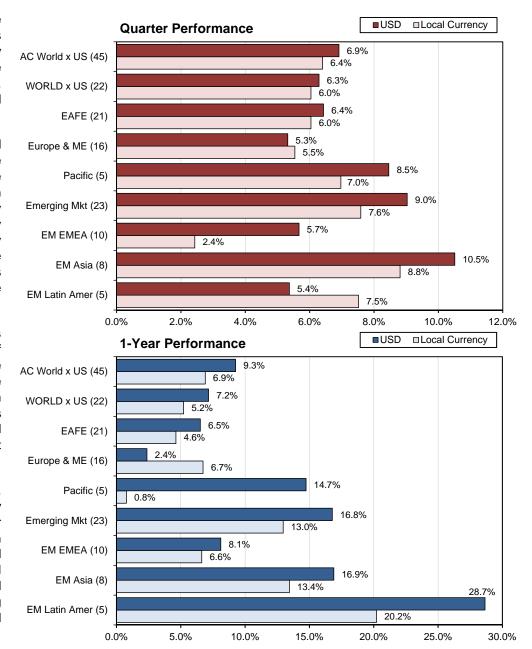
Top 10 Performing Stocks (by Quarter)								
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector				
Seventy Seven Energy Inc	0.00%	20366.9%	1265.9%	Energy				
Sarepta Therapeutics Inc	0.15%	222.0%	91.2%	Health Care				
Tobira Therapeutics Inc	0.02%	216.4%	311.4%	Health Care				
Clayton Williams Energy Inc	0.03%	211.1%	120.1%	Energy				
Ultra Petroleum Corp	0.00%	184.6%	-21.6%	Energy				
Cloud Peak Energy Inc	0.00%	164.1%	106.8%	Energy				
Clovis Oncology Inc	0.07%	162.8%	-60.8%	Health Care				
Acacia Communications Inc	0.03%	158.6%	N/A	Information Technology				
Abeona Therapeutics Inc	0.00%	154.2%	48.1%	Health Care				
Healthways Inc	0.05%	129.1%	137.9%	Health Care				

Bottom 10 Performing Stocks (by Quarter)							
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector			
SunEdison Inc	0.00%	-64.5%	-99.3%	Information Technology			
Corrections Corp of America	0.01%	-58.8%	-48.6%	Real Estate			
SunPower Corp	0.00%	-42.4%	-55.5%	Information Technology			
Quorum Health Corp	0.00%	-41.5%	N/A	Health Care			
The Hain Celestial Group Inc	0.02%	-28.5%	-31.0%	Consumer Staples			
Diamond Offshore Drilling Inc	0.01%	-27.6%	2.4%	Energy			
Bristol-Myers Squibb Company	0.43%	-26.7%	-7.4%	Health Care			
Tractor Supply Co	0.04%	-25.9%	-19.3%	Consumer Discretionary			
Dollar General Corp	0.09%	-25.3%	-2.2%	Consumer Discretionary			
NRG Energy Inc	0.02%	-25.1%	-22.2%	Utilities			

Bottom 10 Performing Stocks (by Quarter)							
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector			
Horsehead Holding Corp	0.00%	-93.8%	-99.4%	Materials			
Fairway Group Holdings Corp A	0.00%	-89.2%	-99.3%	Consumer Staples			
Key Energy Services Inc	0.00%	-82.1%	-91.2%	Energy			
Violin Memory Inc	0.00%	-80.2%	-86.8%	Information Technology			
Code Rebel Corp	0.00%	-80.0%	-99.9%	Information Technology			
CytRx Corp	0.00%	-73.6%	-75.2%	Health Care			
Tokai Pharmaceuticals Inc	0.00%	-72.2%	-85.2%	Health Care			
Novavax Inc	0.03%	-71.4%	-70.6%	Health Care			
6D Global Technologies Inc	0.00%	-66.7%	-98.3%	Information Technology			
Intra-Cellular Therapies Inc	0.03%	-60.7%	-61.9%	Health Care			



- Similar to domestic equity benchmarks, the 3rd quarter was largely positive for international equities with developed and emerging market indices posting solid returns in both USD and local currency terms. The currency impact on returns was mixed during the quarter and the performance differential was more muted than recent quarters. Similar to the 3rd quarter, results for the 1-year period were also broadly positive in both USD and local currency.
- European stocks bounced back during the 3rd quarter as markets recovered from the immediate negative assessment of the U.K.'s vote to leave the European Union. Although the impact of the referendum will likely have economic consequences, they are not near-term in nature. While European Central Bank (ECB) President Mario Draghi signaled that further monetary policy stimulus would be available if needed, the ECB, supported by generally positive economic data in the region, left monetary policy unchanged through the quarter. U.K. economic data also surprised to the upside through the quarter as the Bank of England (BoE) launched a series of expansionary monetary policy measures and Theresa May became prime minister following the resignation of David Cameron.
- Japanese equities rose sharply through the quarter, gaining 8.6%, as elections within Japan's House of Councilors strengthened the position of Prime Minister Abe. The result of the elections made way for the announcement of a \$28 trillion Yen fiscal stimulus package. In addition, the Bank of Japan (BoJ) increased the scale of its ETF purchasing program from \$3.3 trillion Yen to \$6 trillion Yen annually, and while it left interest rates unchanged, the BoJ placed a 0.0% ceiling on 10-year government bond yields and planned to reduce ongoing purchases of ultra-long Government bonds in an effort to influence the shape of their yield curve.
- Broad emerging market indices were positive throughout the quarter, outperforming their developed market counterparts. Asian markets, led by China, South Korea, and Taiwan were the best performers for the 3rd quarter in both USD and local currency terms. Over the trailing 1-year period, Latin America was the best performing region returning 28.7% in USD terms and 20.2% on a local currency basis as the region benefited from political tailwinds in Brazil and rising commodity prices. Russia, Egypt, and Indonesia were also notable positive performers over the period. Emerging European countries were laggards relative to emerging peers in Asia and Latin America.



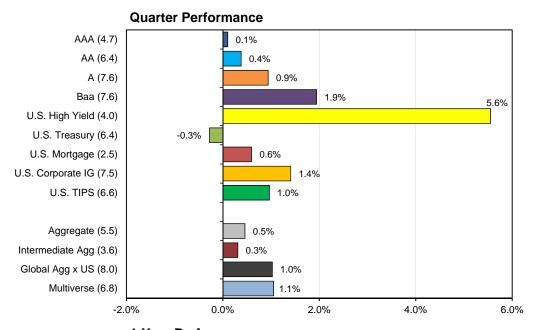


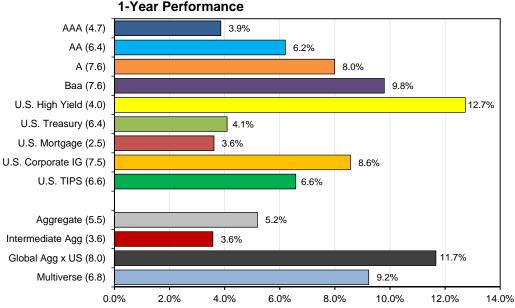
MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Consumer Discretionary	12.2%	10.9%	2.6%
Consumer Staples	12.8%	1.9%	13.9%
Energy	4.8%	-1.5%	15.6%
Financials	19.2%	11.0%	-6.7%
Health Care	11.4%	-2.4%	0.8%
Industrials	14.1%	8.6%	15.8%
Information Technology	5.5%	14.8%	18.1%
Materials	7.5%	15.8%	21.6%
Real Estate	4.0%	4.9%	12.4%
Telecommunication Services	4.8%	-0.4%	6.0%
Utilities	3.7%	0.1%	4.3%
Total	100.0%	6.4%	6.5%
MSCI - ACWIXUS	Sector Weight	Quarter Return	1-Year Return
Consumer Discretionary	11.4%	5.8%	4.8%
Consumer Staples	11.1%	-0.7%	13.2%
Energy	6.6%	2.1%	20.5%
Financials	21.6%	10.1%	0.1%
Health Care	8.6%	0.1%	-2.2%
Industrials	11.7%	5.8%	13.8%
Information Technology	9.6%	15.6%	26.2%
Materials	7.5%	9.1%	24.8%
Real Estate	3.5%	4.9%	13.0%
Telecommunication Services	4.9%	2.0%	5.3%
Utilities	3.4%	2.6%	5.5%
Total	100.0%	6.9%	9.3%
MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Consumer Discretionary	10.6%	9.6%	13.9%
Consumer Staples	7.9%	1.2%	10.1%
Energy	7.3%	8.0%	26.2%
Financials	23.7%	11.5%	14.6%
Health Care	2.6%	2.3%	4.5%
Industrials	5.9%	4.9%	1.2%
Information Technology	23.9%	16.1%	32.7%
Materials	6.4%	10.2%	23.7%
Real Estate	2.7%	7.7%	15.5%
Telecommunication Services	6.1%	2.2%	2.2%
Utilities	2.9%	0.9%	9.3%
Total	100.0%	9.0%	16.8%

	MSCI-EAFE	MSCI-ACWIXUS	Quarter	1- Year
Country	Weight	Weight	Return	Return
Japan	23.8%	16.7%	8.6%	12.1%
United Kingdom	18.9%	13.2%	4.0%	1.5%
France	9.7%	6.8%	6.4%	3.6%
Germany	9.0%	6.3%	10.0%	9.1%
Switzerland	9.0%	6.3%	2.6%	1.0%
Australia	7.3%	5.1%	7.9%	21.7%
Hong Kong	3.5%	2.5%	11.9%	19.1%
Netherlands	3.4%	2.4%	9.1%	10.4%
Spain	3.0%	2.1%	9.3%	-5.7%
Sweden	2.8%	2.0%	7.5%	3.9%
Italy	1.9%	1.3%	2.2%	-21.0%
Denmark	1.8%	1.2%	-6.3%	-1.5%
Belgium	1.4%	1.0%	5.0%	19.1%
Singapore	1.3%	0.9%	-0.2%	9.7%
Finland	1.0%	0.7%	7.4%	9.3%
Israel	0.7%	0.5%	-2.0%	-7.7%
Norway	0.6%	0.5%	6.3%	10.1%
Ireland	0.5%	0.3%	7.4%	-0.7%
New Zealand	0.2%	0.1%	12.4%	56.9%
Austria	0.2%	0.1%	16.7%	11.6%
Portugal	0.2%	0.1%	6.3%	11.2%
Total EAFE Countries	100.0%	70.1%	6.4%	6.5%
Canada	1001070	6.7%	4.9%	14.5%
Total Developed Countries		76.9%	6.3%	7.2%
China		6.2%	13.9%	13.0%
Korea		3.4%	11.0%	21.5%
Taiwan		2.8%	11.7%	22.7%
India		2.0%	5.9%	6.1%
Brazil		1.7%	11.3%	57.6%
South Africa		1.7%	6.3%	9.9%
Mexico		0.9%	-2.2%	-2.5%
Russia		0.9%	8.4%	25.2%
Indonesia		0.6%	9.5%	53.2%
Malaysia		0.6%	-1.5%	13.2%
Thailand		0.5%	7.2%	20.9%
Philippines		0.3%	-5.3%	6.6%
Turkey		0.3%	-5.3%	5.8%
Chile		0.3%	-1.7%	11.8%
Poland		0.3%	3.1%	-15.7%
Qatar		0.2%	6.9%	-5.2%
United Arab Emirates		0.2%	6.1%	0.7%
Colombia		0.1%	2.8%	17.3%
Peru		0.1%	1.1%	39.5%
Greece		0.1%	1.0%	-38.3%
Hungary		0.1%	10.8%	38.0%
C 4		0.0%	21.6%	6.4%
Egypt			0.4	
Egypt Czech Republic Total Emerging Countries		0.0%	-0.4% 9.0%	-12.8% 16.8%



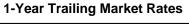
- Despite historically low yields, fixed income indices continued their strong 2016 performance through the 3rd quarter of the year. The initial downward yield shock caused by June's "Brexit" vote wore off quickly and bond market volatility remained relatively low through the remainder of the quarter. Improving economic data in the U.S. led investors to price in greater likelihood of a rate increase at the Fed's September meeting. This expectation caused interest rates to creep up across the yield curve, especially at the short end of the curve. While Fed Chair Janet Yellen relayed a generally positive view of the U.S. economy, the Federal Open Market Committee voted to keep interest rates stable for the time being. However, three of the ten voting committee members were in favor of a rate increase. Although an interest rate hike is not likely until after the November elections, there is certainly a reasonable expectation for a rate hike before year end.
- The yield curve rose over the 3rd quarter with short-term interest rates rising to a greater degree than long-term interest rates. This curve "flattening" represented a headwind to shorter duration market indices. Despite rising interest rates, U.S. investment grade bond indices posted gains for the 3rd quarter. Investment grade corporates benefited from tightening interest rate credit spreads as investors became more comfortable taking on risk for the prospect of greater return. In contrast, the Bloomberg Barclays U.S. Treasury Index finished the quarter in the red due to its relatively high duration and low yield. The broad market Bloomberg Barclays Aggregate Index posted a return between the Treasury and Investment Grade indices with a return of 0.5% for the 3rd quarter. Returns over the 1-year period follow the same general trend as 3rd quarter results with the Bloomberg Barclays U.S. Corporate IG Index returning a strong 8.6% for the period.
- Lower credit quality issues outperformed higher quality securities during the 3rd quarter. Baa rated securities returned 1.9% versus a return of 0.1% for AAA issues due to the compression of interest rate credit spreads throughout the quarter. Spread compression was more prominent, and thus more beneficial, within lower credit qualities. The Bloomberg Barclays U.S. Corporate High Yield Index gained an impressive 5.6% for the quarter and 12.7% for the trailing 1-year period.







- U.S. TIPS finished the 3rd quarter with a return of 1.0%. The quarter's return can be attributed to a modest decline in yields at the longer end of the TIPS yield curve as well as an increase in the CPI All Urban Index from April to July. The TIPS return for the trailing 1-year period is a solid 6.6%.
- In USD terms, international fixed income indices posted gains for both the 3rd quarter and 1-year period. Despite relatively low interest rates in international markets, with several government issues trading at negative yields, the Bloomberg Barclays Global Aggregate ex U.S. Index returned 1.0% for the quarter and strong 11.7% over the 1-year period. This performance outpaced all domestic indices except the Bloomberg Barclays U.S. Corporate High Yield Index's return of 12.7% over the last twelve months.
- Some of factors supporting the index performance detailed in the bar graphs on the previous page is visible on a time series basis in the line graphs on the right. The '1-Year Trailing Market Rates' chart illustrates that the 10-year Treasury yield (green line), after initially falling on the "Brexit" vote, rose over the remainder of the quarter. The blue line illustrates changes in the BAA OAS (Option Adjusted Spread), which quantifies the additional yield premium that investors require to purchase and hold non-Treasury issues. When credit spreads tighten (widen), i.e., the line is falling, it is equivalent to an interest rate decrease (increase)for corporate bonds, which boosts returns. This spread has consistently fallen since the beginning of 2016 and is now near its lowest point of the calendar year. While there was upside momentum in credit spreads early in 2016, they have narrowed by more than 1% since their high on February 11th. The lower graph provides a snapshot of the U.S. Treasury yield curve at each of the last four calendar quarters. While Treasury issues ended the 3rd quarter slightly higher than the prior quarter, long-term rates remain near their lowest levels in the past twelve months while short-term rates are at the high end of their twelve month range.
- The Fed has stated future rate increases would be implemented at a measured pace and with an ongoing assessment of current economic data. Despite this domestic policy assertion, geopolitical events and non-U.S. stimulus programs are likely to keep demand for U.S. Treasury issues elevated and exert significant downward pressure on how high domestic interest rates will rise in the short-term.



1 mo

3 mo

6 mo

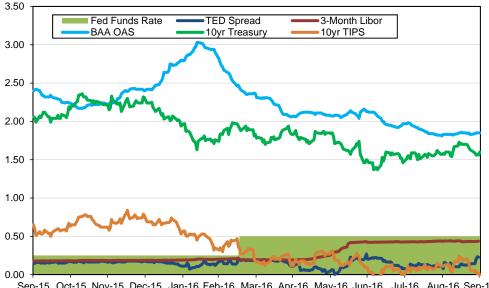
1 yr

2 yr

3 yr

5 yr

7 yr



Sep-15 Oct-15 Nov-15 Dec-15 Jan-16 Feb-16 Mar-16 Apr-16 May-16 Jul-16 Aug-16 Sep-16

# **Treasury Yield Curve** 3.50 **■**12/31/2015 **■**3/31/2016 6/30/2016 9/30/2016 3.00 2.50 2.00 1.50 1.00 0.50 0.00



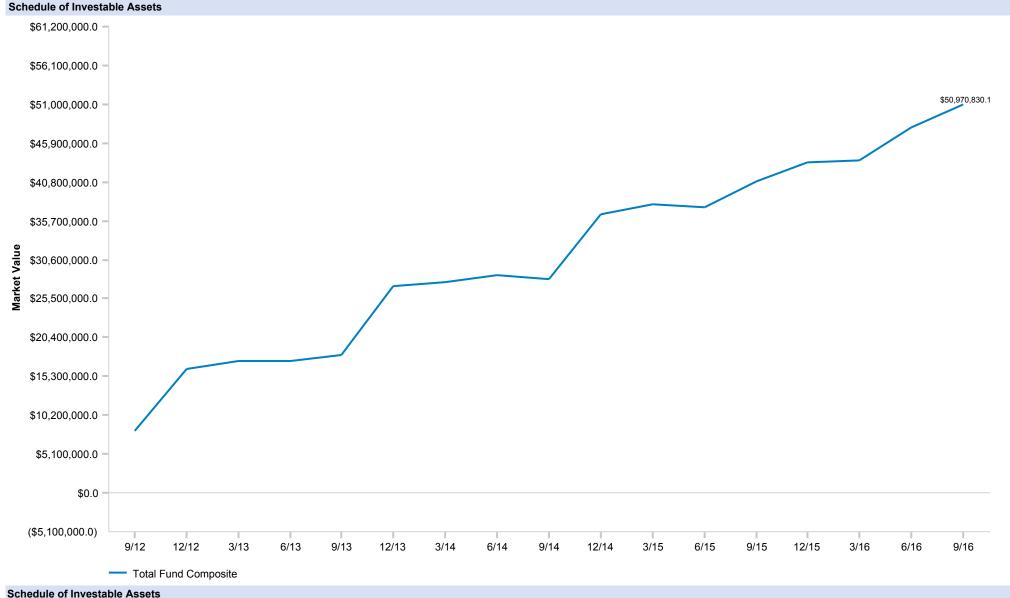
30 yr

20 yr

10 yr

10.2%

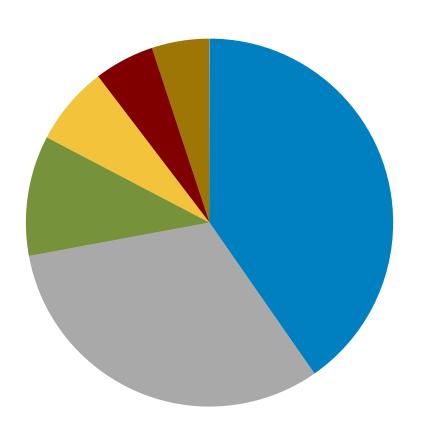


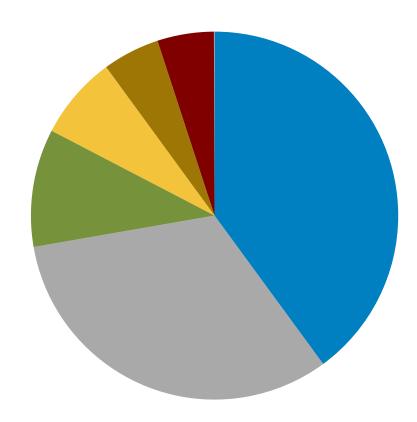


Periods Ending	Beginning Market Value \$	Net Cash Flow \$	Gain/Loss \$	Ending Market Value \$	%Return
Oct-2012 To Sep-2016	8,192,495	35,540,974	7,237,361	50,970,830	7.24



June 30, 2016 : \$47,908,706 September 30, 2016 : \$50,970,830



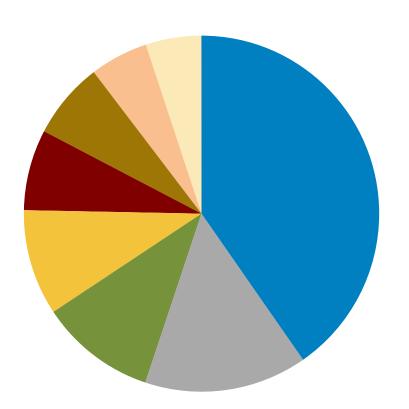


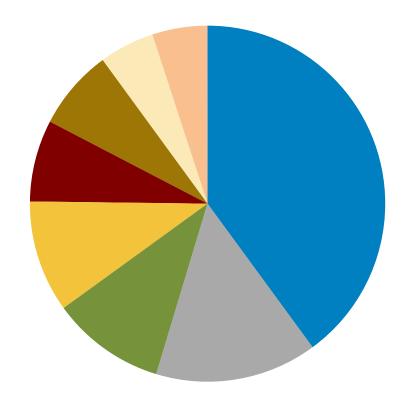
Allocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
Core Plus Fixed Income	19,315,682	40.3	Core Plus Fixed Income	20,353,147	39.9
Domestic Equity	15,222,212	31.8	Domestic Equity	16,479,685	32.3
■ MLPs	5,064,189	10.6	■ MLPs	5,281,926	10.4
International Equity	3,336,072	7.0	International Equity	3,732,431	7.3
Real Estate	2,536,178	5.3	High Yield Fixed Income	2,559,832	5.0
High Yield Fixed Income	2,413,703	5.0	Real Estate	2,535,279	5.0
Cash	20,669	0.0	Cash	28,530	0.1



As of September 30, 2016

June 30, 2016 : \$47,908,706 September 30, 2016 : \$50,970,830





Allocation		Allocation			
	Market Value	Allocation		Market Value	Allocation
MacKay Shields Core Plus	19,315,682	40.3	MacKay Shields Core Plus	20,353,147	39.9
■ Fiduciary Management	7,093,590	14.8	Fiduciary Management	7,512,402	14.7
■ ARI MLP	5,064,189	10.6	■ ARI MLP	5,281,926	10.4
Barrow Hanley MeWhinney & Strauss	4,609,356	9.6	Barrow Hanley MeWhinney & Strauss	5,180,595	10.2
Stephens Mid Cap Growth	3,519,265	7.3	Stephens Mid Cap Growth	3,786,689	7.4
Causeway International (CIVIX)	3,336,072	7.0	Causeway International (CIVIX)	3,732,431	7.3
Cohen & Steers (CSRIX)	2,536,178	5.3	Loomis Sayles High Yield (LSHIX)	2,559,832	5.0
Loomis Sayles High Yield (LSHIX)	2,413,703	5.0	Cohen & Steers (CSRIX)	2,535,279	5.0
Cash	20,669	0.0	Cash	28,530	0.1



Asset Allocation & Performance								
	Allocation	on			Perfo	rmance(%)		
	Market Value \$	%	QTR	1 YR	3 YR	5 YR	Inception	Inception Date
Total Fund Composite (Gross of Fees)	50,970,830	100.0	3.60	10.15	5.53	N/A	7.24	10/01/2012
Policy Index			2.80	10.82	6.01	9.84	7.52	
OPEB Actuarial Assumption			1.71	7.00	7.01	N/A	7.07	
Total Fund Composite (Net of Fees)			3.51	9.71	4.97	N/A	6.64	
Fiduciary Management	7,512,402	14.7	3.25	13.30	9.97	N/A	12.47	10/01/2012
Russell 1000 Value Index			3.48	16.19	9.70	16.15	12.73	
S&P 500 Index			3.85	15.43	11.16	16.37	13.15	
Stephens Mid Cap Growth	3,786,689	7.4	7.80	11.59	6.19	N/A	11.95	01/01/2013
Russell Midcap Growth Index			4.59	11.24	8.90	15.85	13.72	
Barrow Hanley MeWhinney & Strauss	5,180,595	10.2	9.32	15.29	7.39	N/A	14.57	10/01/2012
Russell 2000 Value Index			8.87	18.81	6.77	15.45	11.51	
Causeway International (CIVIX)	3,732,431	7.3	6.30	2.89	-1.09	N/A	-1.09	10/01/2013
MSCI EAFE (Net) Index			6.43	6.52	0.48	7.39	0.48	
Cohen & Steers (CSRIX)	2,535,279	5.0	-0.04	18.37	14.56	N/A	12.50	01/01/2013
FTSE NAREIT All Equity REITs			-1.21	20.94	13.86	15.97	11.83	
ARI MLP	5,281,926	10.4	4.51	10.43	-1.09	N/A	4.44	10/01/2012
Alerian MLP Index			1.07	12.74	-4.82	4.96	0.23	
MacKay Shields Core Plus	20,353,147	39.9	1.08	6.01	N/A	N/A	3.22	07/01/2014
Bloomberg Barclays U.S. Aggregate Index			0.46	5.19	4.03	3.08	3.68	
Loomis Sayles High Yield (LSHIX)	2,559,832	5.0	6.05	12.51	4.64	N/A	6.44	01/01/2013
BofA Merrill Lynch High Yield Master II			5.49	12.82	5.27	8.24	5.23	
Cash	28,530	0.1						



	Allocation			Performance(%)			
	Market Value \$	%	2015	2014	2013	2012	2011
Total Fund Composite (Gross of Fees)	50,970,830	100.0	-2.43	5.42	17.12	N/A	N/A
Policy Index			-2.53	7.49	16.29	12.11	4.25
OPEB Actuarial Assumption			7.00	7.00	7.19	N/A	N/A
iduciary Management	7,512,402	14.7	-1.93	13.46	30.21	N/A	N/A
Russell 1000 Value Index			-3.83	13.45	32.53	17.51	0.39
S&P 500 Index			1.38	13.69	32.39	16.00	2.11
Stephens Mid Cap Growth	3,786,689	7.4	-0.28	4.61	36.16	N/A	N/A
Russell Midcap Growth Index			-0.20	11.90	35.74	15.81	-1.65
Barrow Hanley MeWhinney & Strauss	5,180,595	10.2	-6.22	3.03	48.35	N/A	N/A
Russell 2000 Value Index			-7.47	4.22	34.52	18.05	-5.50
Causeway International (CIVIX)	3,732,431	7.3	-3.12	-6.22	N/A	N/A	N/A
MSCI EAFE (Net) Index			-0.81	-4.90	22.78	17.32	-12.14
Cohen & Steers (CSRIX)	2,535,279	5.0	5.23	30.18	3.46	N/A	N/A
FTSE NAREIT All Equity REITs			2.83	28.03	2.86	19.70	8.28
ARI MLP	5,281,926	10.4	-32.54	14.43	32.52	N/A	N/A
Alerian MLP Index			-32.59	4.80	27.58	4.80	13.88
MacKay Shields Core Plus	20,353,147	39.9	-0.08	N/A	N/A	N/A	N/A
Bloomberg Barclays U.S. Aggregate Index			0.55	5.97	-2.02	4.21	7.84
oomis Sayles High Yield (LSHIX)	2,559,832	5.0	-10.27	5.17	15.07	N/A	N/A
BofA Merrill Lynch High Yield Master II			-4.64	2.50	7.42	15.58	4.38
Cash	28,530	0.1					



Fiduciary's objective is to buy durable business at value prices in order to achieve top in class investment results over a three to five year time horizon. Fiduciary considers themselves long-term investors, not traders. They will typically hold between 20-30 companies in their portfolio with an average turnover of 35%. The research process is geared toward finding six new investment ideas for the portfolio in a given year. All investment ideas are generated by a research team consisting of six individuals, rather than relying on the portfolio manager. As of September 30, 2016, Fiduciary had a market value of \$7,512,402.

Eidusian, Managament

	Fiduciary Manageme	ent
		Weight %
	Comcast Corp	4.8
	Berkshire Hathaway Inc	4.7
	Accenture PLC	4.4
	Dollar General Corp	4.2
	Unitedhealth Group Inc	4.0
	eBay Inc.	3.9
	Schlumberger Ltd	3.8
	Expeditors Intl	3.4
	Omnicom Group Inc.	3.4
	TE Connectivity Ltd	3.3
<b>Equity Assets Exposures by Se</b>	ector	
	Fiduciary Management	Russell 1000 Value Index
Cash	11.19	N/A
Consumer Discretionary	19.30	4.88
Consumer Staples	7.10	8.86
Energy	6.77	13.46
Financials	16.02	23.42
Health Care	7.27	11.48
Industrials	13.39	9.48
Information Technology	14.02	10.04
Materials	3.06	2.86
Real Estate	N/A	5.11
Telecommunication Services	1.88	3.91
Utilities	N/A	6.49
<b>Equity Characteristics</b>		
	Fiduciary Management	Russell 1000 Value Index
Wtd. Avg. Mkt. Cap (\$)	81,115,105,594	112,504,866,075
Price/Earnings ratio	16.8	17.0
Price/Book ratio	2.9	2.1

1.9

30



2.6

687

Current Yield

Number of Stocks

The Stephens Mid Cap Growth portfolio is a diversified portfolio that seeks long term growth of capital by investing primarily in common stock of U.S. companies with market capitalizations of between \$1.5 billion to \$12.5 billion. They select mid cap growth companies that are established growth companies that have achieved above average growth. The combination of core growth and catalyst growth stocks positions the portfolio for varying market conditions. As of September 30, 2016, Stephens had a market value of \$3,786,689.

Stephens Mi	d Cap Growth	Russell Midcap Gr	owth Index
	Weight %		Weight %
MercadoLibre Inc	2.0	NVIDIA Corp	1.3
Ross Stores Inc	1.8	Illumina Inc	1.0
CoStar Group Inc	1.7	O'Reilly Automotive Inc	1.0
Monster Beverage Corp	1.7	Intuitive Surgical Inc	1.0
IDEXX Laboratories Inc	1.7	Edwards Lifesciences Corp	0.9
Illumina Inc	1.6	Ross Stores Inc	0.9
Cerner Corp	1.6	Electronic Arts Inc.	0.9
NVIDIA Corp	1.6	Zoetis Inc	0.9
Microchip Technology Inc	1.6	Equinix Inc	0.9
SVB Financial Group	1.5	Newell Brands Inc	0.9
Equity Assets Exposures by Sector			
	Stephens Mid Cap Growth	Russell Mid	Icap Growth Index
Cash	3.09		N/A
Consumer Discretionary	19.37		23.44
Consumer Staples	2.95		7.35
Energy	6.30	1.45	
Financials	4.80		4.91
Health Care	22.86		16.22
Industrials	9.73		13.92
Information Technology	30.90		22.22
Materials	N/A		5.05
Real Estate	N/A		4.80
Telecommunication Services	N/A		0.49
Utilities	N/A		0.14
Equity Characteristics			
	Stephens Mid Cap Growth	Russell Midca	p Growth Index
Wtd. Avg. Mkt. Cap (\$)	11,547,665,706	13,188	,099,349
Price/Earnings ratio	32.2		25.3
Price/Book ratio	4.5		5.0
Current Yield	0.5		1.1

93



464

Number of Stocks

The strategy is designed to exploit inefficiencies in the small cap sector of the market by carefully employing high value-added proprietary research in a universe of small capitalization, low-expectation stocks. This process is directed toward the discovery of companies in which the value of the underlying business is significantly greater than the market price. The portfolio's goal is to consistently generate superior returns while assuming below average levels of risk. As of September 30, 2016, Barrow, Hanley, MeWhinney & Strauss had a market value of \$5,180,595.

Barrow Hanl	ey MeWhinney & Strauss	Russell 2000 Valu	e Index
	Weight %		Weight %
Vishay Intertechnology Inc.	4.0	IDACORP Inc.	0.5
II VI Inc	3.8	Gramercy Property Trust	0.4
Simpson Manufacturing Co. Inc.	3.7	Portland Gen. Elec. Co.	0.4
Barnes Group Inc	3.5	XPO Logistics Inc	0.4
Texas Capital Bancshares Inc	3.5	Olin Corp	0.4
Trex Co Inc	3.4	Healthcare Realty Trust Inc	0.4
Plexus Corp	3.4	Investors Bancorp Inc	0.4
Terex Corp	3.2	PrivateBancorp Inc	0.4
PolyOne Corp	3.1	Webster Financial Corp	0.4
Brooks Automation Inc	3.0	Prosperity Bancshares Inc	0.4
Equity Assets Exposures by Sector			
	Barrow Hanley MeWhinney & Strauss	Russell 20	00 Value Index
Cash	4.27		N/A
Consumer Discretionary	10.35		10.56
Consumer Staples	N/A		2.90
Energy	2.62		5.19
Financials	9.45		30.09
Health Care	2.69		4.89
Industrials	32.29		12.63
Information Technology	27.69		10.55
Materials	10.63		4.53
Real Estate	N/A		11.06
Telecommunication Services	N/A		0.73
Utilities	N/A		6.85
Equity Characteristics			
	Barrow Hanley MeWhinney & Strauss	Russell 2000	
Wtd. Avg. Mkt. Cap (\$)	2,260,086,922	1,746,4	
Price/Earnings ratio	20.1		17.1
Price/Book ratio	1.9		1.6
Current Yield	1.1		2.1
Number of Stocks	39		1,338



#### **Fund Information**

Fund Name: Causeway Capital Management Trust: Causeway International Value Fund;

Institutional Class Shares

Fund Family: Causeway Capital Management LLC

Ticker: CIVIX
Inception Date: 10/26/2001
Fund Assets: \$5,585 Million

Portfolio Turnover: 28%

Portfolio Assets :	\$6.295 Million

Portfolio Manager: Team Managed

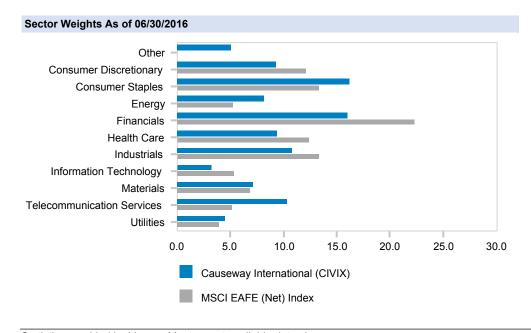
PM Tenure:

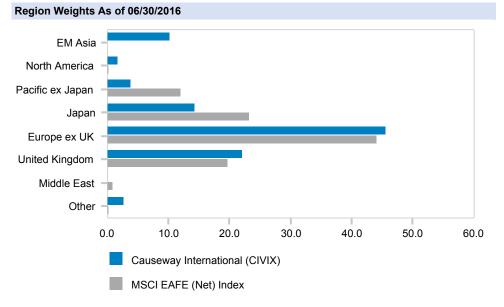
Fund Style: IM International Large Cap Value Equity (MF)

Style Benchmark: MSCI EAFE (Net) Index

Portfolio Characteristics As of 06/30/2016		
	Portfolio	Benchmark
Total Securities	58	930
Avg. Market Cap (\$)	69,634,029,854	8,598,822,516
Price/Earnings (P/E)	20.43	15.56
Price/Book (P/B)	3.33	2.29
Dividend Yield	3.39	3.57
Annual EPS	-0.20	N/A
5 Yr EPS	2.27	5.30
3 Yr EPS Growth	1.30	N/A
Beta (3 Years, Monthly)	0.91	1.00

Top Ten Securities As of 06/30/2016		
Dreyfus Cash Management;Institutional	3.9 %	
British American Tobacco PLC ORD	3.5 %	
KDDI Corp ORD	3.5 %	
Volkswagen AG PFD	3.2 %	
Akzo Nobel NV ORD	3.2 %	
Royal Dutch Shell Plc B ORD	3.0 %	
Novartis AG ORD	3.0 %	
Total SA ORD	3.0 %	
East Japan Railway Co ORD	3.0 %	
Roche Holding AG Par	2.9 %	





Statistics provided by Lipper. Most recent available data shown.



#### **Fund Information**

Fund Name: Cohen & Steers Institutional Realty Shares, Inc. \$3,184 Million Portfolio Assets: Fund Family: Cohen & Steers Capital Management Inc Portfolio Manager: Team Managed Ticker:

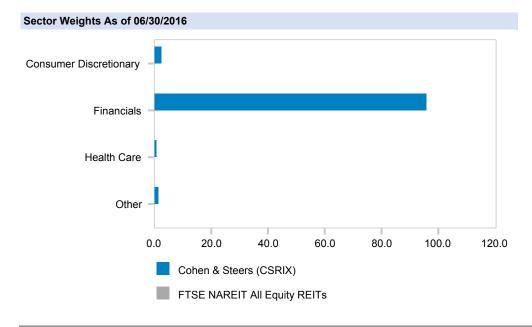
**CSRIX** PM Tenure:

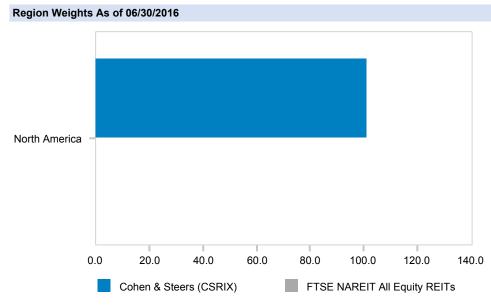
Inception Date: 02/14/2000 Fund Style: IM Real Estate Sector (MF) Fund Assets: \$3,184 Million Style Benchmark: FTSE NAREIT All Equity REITs

Portfolio Turnover: 60%

Portfolio Characteristics As of 06/30/2016		
	Portfolio	Benchmark
Total Securities	50	N/A
Avg. Market Cap (\$)	17,927,955,365	-
Price/Earnings (P/E)	45.22	N/A
Price/Book (P/B)	4.34	N/A
Dividend Yield	3.60	N/A
Annual EPS	45.43	N/A
5 Yr EPS	20.69	N/A
3 Yr EPS Growth	22.74	N/A
Beta (3 Years, Monthly)	1.03	1.00

Top Ten Securities As of 06/30/2016	
Simon Property Group Inc ORD	12.5 %
UDR Inc	5.6 %
Equinix Inc ORD	4.6 %
Prologis Inc ORD	4.4 %
Essex Property Trust Inc	4.1 %
HCP Inc ORD	3.9 %
Apartment Investment and Management Co	3.5 %
Digital Realty Trust Inc ORD	3.5 %
Vornado Realty Trust ORD	3.2 %
Kilroy Realty Corp	3.0 %





Statistics provided by Lipper. Most recent available data shown.



The ARI Master Limited Partnerships (MLPs) strategy is a diversified portfolio consisting primarily of publicly traded partnerships focused in the natural resources and energy infrastructure industries. The objective is to provide high levels of total returns and a growing cash yield. It offers low correlation to the broader equity market over the long-term. As of September 30, 2016, ARI had a market value of \$5,281,926.

ARI MLP		Alerian MLP Index	
	Weight %		Weight %
Magellan Midstream Partners LP	8.4	Enterprise Products Partners LP	18.4
Energy Transfer Partners LP	8.2	Williams Partners LP	7.2
DCP Midstream Partners LP	7.5	Energy Transfer Partners LP	5.7
Plains All American Pipeline LP	5.9	Magellan Midstream Partners LP	5.1
Buckeye Partners LP	5.9	Plains All American Pipeline LP	4.6
MPLX LP	5.5	Spectra Energy Partners LP	4.2
Williams Partners LP	4.9	Cheniere Energy Partners LP	4.1
Enbridge Energy Partners LP	4.8	MPLX LP	4.0
Tesoro Logistics LP	4.6	ONEOK Partners LP	3.6
Western Gas Equity Partners LP	4.5	Enbridge Energy Partners LP	3.2
uity Assets Exposures by Sector			
Α	RI MLP	Alerian MLP	Index

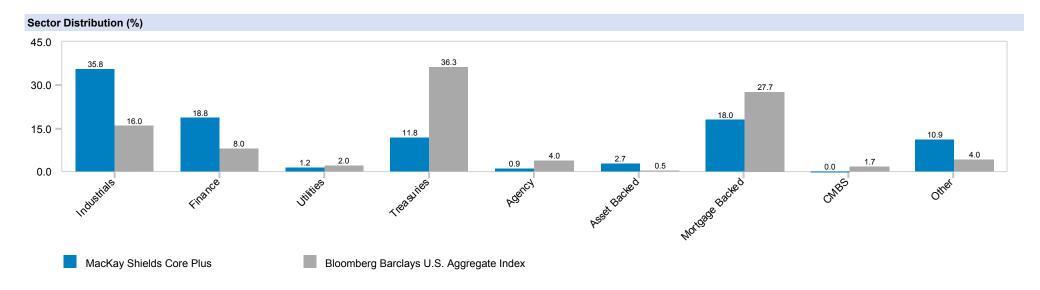
	ARI MLP	Alerian MLP Index
Cash	1.59	N/A
Energy	98.41	96.98
Materials	N/A	0.66
Utilities	N/A	2.36

A DU ANU D	
ARI MLP	Alerian MLP Index
9,107,763,883	18,196,790,932
23.8	23.3
2.3	2.4
7.3	7.0
31	44
	23.8 2.3 7.3



MacKay Shields Core Plus seeks to outperform the benchmark by eliminating or reducing uncompensated risk while opportunistically allocating investments across a range of core and off-benchmark sectors. The fund typically invests in the same sectors represented by the Barclays U.S. Aggregate Bond Index, as well as high yield, emerging market debt, and non-US Dollar exposure. Their philosophy is centered on their pursuit of consistent, superior rates of return with low volatility. Their goal for the product is to provide enhanced returns over a full market cycle with lower-than market risk. This portfolio replaced Smith

Affiliated during the second quarter of 2014. As of June 30, 2016, MacKay Shields had a market value of \$19,315,682.



Portfolio Characteristics		
	Portfolio	Benchmark
Avg. Maturity	7.07	7.85
Avg. Quality	A+/A	AA
Coupon Rate (%)	3.78	3.09
Modified Duration	5.22	5.42
Yield To Maturity (%)	2.44	1.96
Holdings Count	212	9,977



#### **Fund Information**

Fund Name: Loomis Sayles Funds I: Loomis Sayles Institutional High Income Fund; Institutional Portfolio Assets: \$714 Million

Fund Family: Loomis Sayles & Company LP

Ticker: **LSHIX** Inception Date: 06/05/1996 Fund Assets: \$714 Million

Portfolio Turnover: 19%

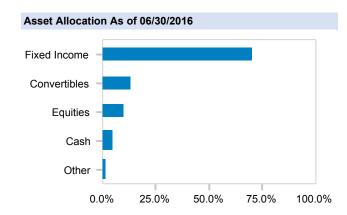
Portfolio Manager:	Fuss/Eagan/Stokes
PM Tenure:	199620072007
E 1011	184110 11: 1 36: 110

Fund Style: IM U.S. High Yield Bonds (MF) Style Benchmark: Citigroup High Yield Market Index

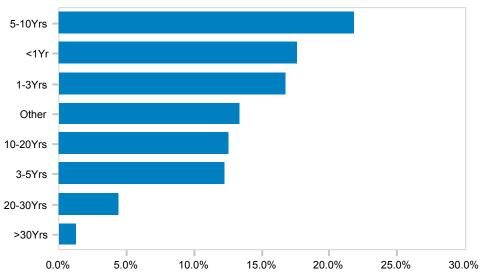
ŀ	-und	Characte	eristics	As of	06/30/2016
		_			

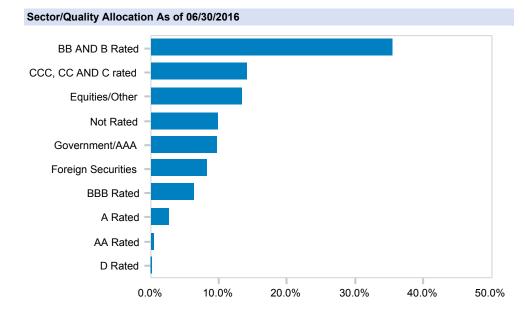
Avg. Coupon	5.11 %
Nominal Maturity	N/A
Effective Maturity	6.59 Years
Duration	4.07 Years
SEC 30 Day Yield	5.5
Avg. Credit Quality	BB

Top Ten Securities As of 06/30/2016	
Corporate Notes/Bonds	60.1 %
Convertible Securities	13.2 %
Common Stock	10.0 %
Fgn. Currency Denominated Bonds	8.2 %
Treasury Notes/Bonds	3.0 %
Asset Backed Securities	0.3 %
Preferred Stock-Non Convertible	0.3 %









Statistics provided by Lipper. Most recent available data shown.



Mandate Status		Notes		
Large Cap Value Equity	In Compliance			
Mid Cap Growth Equity	On Alert	4q2014 - Perfromance		
Small Cap Value Equity	Non-Compliance	Beta 1.35 vs. Investment Policy Statement of 1.20		
International Equity	In Compliance			
Real Estate and Investement Trust	In Compliance			
Master Limited Partnership	In Compliance			
Core Plus Fixed Income	In Compliance			
High Yield Fixed Income	In Compliance			
	Large Cap Value Equity  Mid Cap Growth Equity  Small Cap Value Equity  International Equity  Real Estate and Investement Trust  Master Limited Partnership  Core Plus Fixed Income	Large Cap Value Equity  Mid Cap Growth Equity  On Alert  Small Cap Value Equity  In Compliance  International Equity  Real Estate and Investement Trust  Master Limited Partnership  Core Plus Fixed Income  In Compliance  In Compliance		

In Compliance- The portfolio is acting in full compliance with its guidelines and it is performing according to expectations.

On Alert- Concerns exist with the portfolio's performance, a change in investment characteristics, management style, ownership structure, staff or other related events.

**On Notice-** A continued and serious problem with any of the issues mentioned above. If the situation is not resolved to the Trustee's satisfaction, a replacement will be replaced and hired.



## Port of Houston OPEB Fee Summary As of September 30, 2016

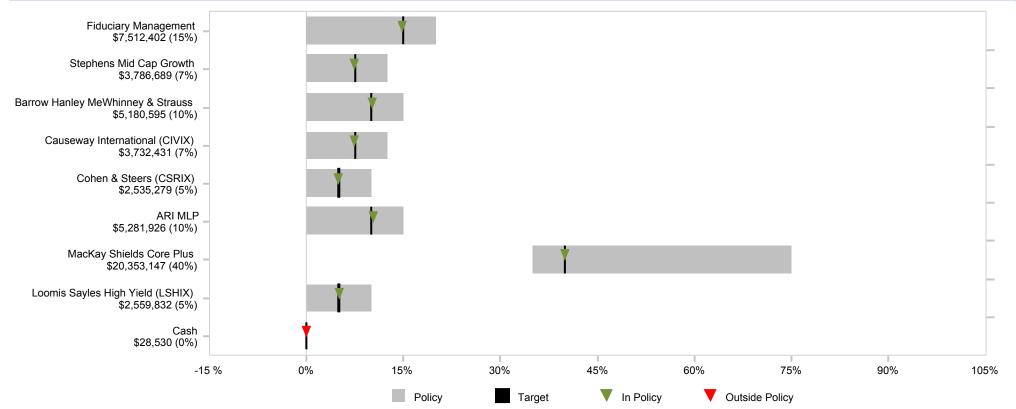
Structure	Mandate	Expense Ratio	Category Average	Difference	Annual Savings
Fiduciary Management	Large Cap Value Equity	0.55%	1.21%	0.66%	\$49,582
Stephens Mid Cap Growth	Mid Cap Growth Equity	0.78%	1.35%	0.57%	\$21,584
Barrow Hanley MeWhinney & Strauss	Small Cap Value Equity	0.68%	1.40%	0.72%	\$37,300
Causeway International (CIVIX)	International Equity	0.90%	1.16%	0.26%	\$9,704
Cohen & Steers (CSRIX)	Real Estate and Investement Trust	0.75%	1.31%	0.56%	\$14,198
ARI MLP	Master Limited Partnership	0.75%	1.00%	0.25%	\$13,205
Mackay Shields Core Plus	Core Plus Fixed Income	0.35%	0.84%	0.49%	\$99,730
Loomis Sayles High Yield (LSHIX)	High Yield Fixed Income	0.68%	1.08%	0.40%	\$10,239
Total Management Fees		0.56%	1.06%	0.50%	\$255,543

Source: Morningstar and Investment Managers



	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Minimum Allocation (%)	Maximum Allocation (%)
Total Fund Composite	50,970,830	100.0	100.0	0.0		
Fiduciary Management	7,512,402	14.7	15.0	-0.3	0.0	20.0
Stephens Mid Cap Growth	3,786,689	7.4	7.5	-0.1	0.0	12.5
Barrow Hanley MeWhinney & Strauss	5,180,595	10.2	10.0	0.2	0.0	15.0
Causeway International (CIVIX)	3,732,431	7.3	7.5	-0.2	0.0	12.5
Cohen & Steers (CSRIX)	2,535,279	5.0	5.0	0.0	0.0	10.0
ARI MLP	5,281,926	10.4	10.0	0.4	0.0	15.0
MacKay Shields Core Plus	20,353,147	39.9	40.0	-0.1	35.0	75.0
_oomis Sayles High Yield (LSHIX)	2,559,832	5.0	5.0	0.0	0.0	10.0
Cash	28,530	0.1	0.0	0.1	0.0	0.0

### **Executive Summary**





	-4			-4.	
А	CT	ive	ĸ	eti	urr

- Arithmetic difference between the manager's performance and the designated benchmark return over a specified time period.

#### Alpha

- A measure of the difference between a portfolio's actual performance and its expected return based on its level of risk as determined by beta. It determines the portfolio's non-systemic return, or its historical performance not explained by movements of the market.

#### Beta

- A measure of the sensitivity of a portfolio to the movements in the market. It is a measure of the portfolio's systematic risk.

#### Consistency

- The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. Higher consistency indicates the manager has contributed more to the product's performance.

#### Distributed to Paid In (DPI)

- The ratio of money distributed to Limited Partners by the fund, relative to contributions. It is calculated by dividing cumulative distributions by paid in capital. This multiple shows the investor how much money they got back. It is a good measure for evaluating a fund later in its life because there are more distributions to measure against.

#### **Down Market Capture**

- The ratio of average portfolio performance over the designated benchmark during periods of negative returns. A lower value indicates better product performance

#### **Downside Risk**

- A measure similar to standard deviation that utilizes only the negative movements of the return series. It is calculated by taking the standard deviation of the negative quarterly set of returns. A higher factor is indicative of a riskier product.

#### **Excess Return**

- Arithmetic difference between the manager's performance and the risk-free return over a specified time period.

#### **Excess Risk**

- A measure of the standard deviation of a portfolio's performance relative to the risk free return.

#### Information Ratio

- This calculates the value-added contribution of the manager and is derived by dividing the active rate of return of the portfolio by the tracking error. The higher the Information Ratio, the more the manager has added value to the portfolio.

#### **Public Market Equivalent (PME)**

- Designs a set of analyses used in the Private Equity Industry to evaluate the performance of a Private Equity Fund against a public benchmark or index.

#### R-Squared

- The percentage of a portfolio's performance that can be explained by the behavior of the appropriate benchmark. A high R-Squared means the portfolio's performance has historically moved in the same direction as the appropriate benchmark.

#### Return

- Compounded rate of return for the period.

#### Sharpe Ratio

- Represents the excess rate of return over the risk free return divided by the standard deviation of the excess return. The result is an absolute rate of return per unit of risk. A higher value demonstrates better historical risk-adjusted performance.

#### Standard Deviation

- A statistical measure of the range of a portfolio's performance. It represents the variability of returns around the average return over a specified time period.

#### Total Value to Paid In (TVPI)

- The ratio of the current value of remaining investments within a fund, plus the total value of all distributions to date, relative to the total amount of capital paid into the fund to date. It is a good measure of performance before the end of a fund's life

#### **Tracking Error**

- This is a measure of the standard deviation of a portfolio's returns in relation to the performance of its designated market benchmark.

#### Trevnor Ratio

- Similar to Sharpe ratio but utilizes beta rather than excess risk as determined by standard deviation. It is calculated by taking the excess rate of return above the risk free rate divided by beta to derive the absolute rate of return per unit of risk. A higher value indicates a product has achieved better historical risk-adjusted performance.

#### **Up Market Capture**

- The ratio of average portfolio performance over the designated benchmark during periods of positive returns. A higher value indicates better product performance.



The Bogdahn Group compiled this report for the sole use of the client for which it was prepared. The Bogdahn Group is responsible for evaluating the performance results of the Total Fund along with the investment advisors by comparing their performance with indices and other related peer universe data that is deemed appropriate. The Bogdahn group uses the results from this evaluation to make observations and recommendations to the client.

The Bogdahn Group uses time-weighted calculations which are founded on standards recommended by the CFA Institute. The calculations and values shown are based on information that is received from custodians. The Bogdahn Group analyzes transactions as indicated on the custodian statements and reviews the custodial market values of the portfolio. As a result, this provides The Bogdahn Group with a reasonable basis that the investment information presented is free from material misstatement. This methodology of evaluating and measuring performance provides The Bogdahn Group with a practical foundation for our observations and recommendations. Nothing came to our attention that would cause The Bogdahn Group to believe that the information presented is significantly misstated.

This performance report is based on data obtained by the client's custodian(s), investment fund administrator, or other sources believed to be reliable. While these sources are believed to be reliable, the data providers are responsible for the accuracy and completeness of their statements. Clients are encouraged to compare the records of their custodian(s) to ensure this report fairly and accurately reflects their various asset positions.

The strategies listed may not be suitable for all investors. We believe the information provided here is reliable, but do not warrant its accuracy or completeness. Past performance is not an indication of future performance. Any information contained in this report is for informational purposes only and should not be construed to be an offer to buy or sell any securities, investment consulting, or investment management services.

Additional information included in this document may contain data provided by from index databases, public economic sources and the managers themselves.

This document may contain data provided by Barclays. Barclays Index data provided by way of Barclays Live.

This document may contain data provided by Standard and Poor's. Nothing contained within any document, advertisement or presentation from S&P Indices constitutes an offer of services in jurisdictions where S&P Indices does not have the necessary licenses. All information provided by S&P Indices is impersonal and is not tailored to the needs of any person, entity or group of persons. Any returns or performance provided within any document is provided for illustrative purposes only and does not demonstrate actual performance. Past performance is not a guarantee of future investment results.

This document may contain data provided by MSCI, Inc. Copyright MSCI, 2012. Unpublished. All Rights Reserved. This information may only be used for your internal use, may not be reproduced or redisseminated in any form and may not be used to create any financial instruments or products or any indices. This information is provided on an "as is" basis and the user of this information assumes the entire risk of any use it may make or permit to be made of this information. Neither MSCI, any of its affiliates or any other person involved in or related to compiling, computing or creating this information makes any express or implied warranties or representations with respect to such information or the results to be obtained by the use thereof, and MSCI, its affiliates and each such other person hereby expressly disclaim all warranties (including, without limitation, all warranties of originality, accuracy, completeness, timeliness, non-infringement, merchantability and fitness for a particular purpose) with respect to this information. Without limiting any of the foregoing, in no event shall MSCI, any of its affiliates or any other person involved in or related to compiling, computing or creating this information have any liability for any direct, indirect, special, incidental, punitive, consequential or any other damages (including, without limitation, lost profits) even if notified of, or if it might otherwise have anticipated, the possibility of such damages.

This document may contain data provided by Russell Investment Group. Russell Investment Group is the source owner of the data contained or reflected in this material and all trademarks and copyrights related thereto. The material may contain confidential information and unauthorized use, disclosure, copying, dissemination or redistribution is strictly prohibited. This is a user presentation of the data. Russell Investment Group is not responsible for the formatting or configuration of this material or for any inaccuracy in presentation thereof.

This document may contain data provided by Morningstar. All rights reserved. Use of this content requires expert knowledge. It is to be used by specialist institutions only. The information contained herein: (1) is proprietary to Morningstar and/or its content providers; (2) may not be copied, adapted or distributed; and (3) is not warranted to be accurate, complete or timely. Neither Morningstar nor its content providers are responsible for any damages or losses arising from any use of this information, except where such damages or losses cannot be limited or excluded by law in your jurisdiction. Past financial performance is not quarantee of future results.





# Orlando

4901 Vineland Road, Suite 600 Orlando, Florida 32811

866.240.7932

Chicago Cleveland Detroit Pittsburgh Tulsa