275 East Broad Street Columbus, OH 43215-3771 614-227-4090 www.strsoh.org

March 23, 2012

Ms. Bethany Rhodes, Director Ohio Retirement Study Council 88 E. Broad St., Suite 1175 Columbus, OH 43215

Dear Bethany:

Pursuant to Substitute Senate Bill 133 and as required by Section 3307.044 of the Ohio Revised Code, enclosed is a report of the actions of the Audit Committee of the State Teachers Retirement Board for calendar year 2011.

Please don't hesitate to contact me if you have any questions.

Sincerely,

Mill). h

Michael J. Nehf Executive Director

Enclosure

RETIREMENT BOARD CHAIR JAMES MCGREEVY

RETIREMENT BOARD VICE CHAIR MARK HILL

EXECUTIVE DIRECTOR MICHAEL J. NEHF

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# **AUDIT COMMITTEE ANNUAL REPORT**

Audit Committee Members: Jim McGreevy, Chair Daniel Martin, Vice Chair Craig Brooks Taiyia Hayden Bob Stein Mark Hill, Non-voting observer

To: Ohio Retirement Study Council (ORSC)

Subject: STRS Ohio Audit Committee Report - 2011

Date: March 23, 2012

As required by Section 3307.044 of the Ohio Revised Code, the following report outlines the activities of the STRS Ohio Audit Committee and the STRS Ohio Internal Audit Department for the year ending Dec. 31, 2011. This report outlines the following: audit reviews completed during 2011; STRS Ohio Audit Committee meetings and actions; special reviews completed during 2011; and the 2012 Internal Audit Plan. Audit Committee members during 2011 were Jim McGreevy (Chair), Daniel Martin (Vice Chair), Craig Brooks, Taiyia Hayden, Bob Stein and, Mark Hill (non-voting observer).

## **Audit Reviews Completed During 2011**

The attached 2011 Internal Audit Summary lists the audits performed, the scope for each audit, the recommendations to management, management's response and expected implementation dates. The Internal Audit Summaries were mailed to all State Teachers Retirement Board Members in March, May, August and December 2011.

## **STRS Ohio Audit Committee Meetings and Actions**

Aug. 12, 2011 — The Audit Committee met on August 12, 2011. Committee members Mr. Myers, Dr. Martin, Mr. Brooks, Ms. Hayden and Mr. Stein were present. Board members Mr. McGreevy, Mr. Hill, Mr. Price and Ms. Burch were also in attendance. Staff present included Mr. Nehf, Mr. Slater, Mr. Tackett, Mr. Snyder and Mr. Vance.

Kevin Rohrs of Clifton Gunderson presented a summary of their plan for the 2010–11 financial statement audit and tentative schedule for issuing an audit report and management letter. Their overall risk assessment on this engagement is moderate, and Clifton Gunderson has identified investments, contributions, benefit payments and actuarial assumptions as critical audit areas. As part of their audit procedures for contributions and benefits, Clifton Gunderson will test system controls in STaRS. The final audit report, including management letter, will be presented to the Audit Committee in December.

summarized, and the 2012 Internal Audit Plan will be presented at that time.

Dec. 8, 2011 — The Audit Committee met on Dec. 8, 2011. Committee members Mr. McGreevy, Dr. Martin, Mr. Brooks and Mr. Stein were in attendance. Committee member, Ms. Hayden, was absent. Board members, Mr. Hill, Ms. Correthers, Mr. Myers and Mr. Price also attended.

The Committee reviewed a summary of the 2011 internal audit results. There were no material weaknesses in internal controls. Management has accepted all audit recommendations, which have been implemented or are in progress.

The Committee also reviewed the Internal Audit Plan for 2012. There were no changes.

The Committee entered executive session to hear a report from Clifton Gunderson on the results of their audit of the STRS Ohio financial statements for the fiscal year ended June 30, 2011.

Mr. Brooks moved, seconded by Mr. Stein, to enter executive session under authority of Division (G)(5) of Section 121.22 of the Revised Code for the purpose of discussing matters required to be kept confidential by federal law or state statute.

Upon roll call the vote was as follows: Mr. Brooks, yes; Mr. Stein, yes; Mr. Martin, yes; Mr. McGreevy, yes. Motion carried.

Public session resumed and the Committee meeting was adjourned.

## **Special Reviews/Projects**

The STRS Ohio Internal Audit Department has been involved in the enterprise risk management process for STRS Ohio.

#### 2012 Internal Audit Plan

The 2012 Internal Audit Plan was approved by the Retirement Board on Dec. 8, 2011. A copy of the 2012 Plan is enclosed.

If you have any questions or need further information, please feel free to call me at (614) 227-2821.

Jun 7

David S. Tackett, CFA, CPA, CIA Chief Audit Executive



#### 2011 Internal Audit Summary

Audit Area Scope		Recommendations	Management's Response	Implemented	Implementation Date or Targeted Implementation Date	
	187 197	Closed Audits			.90	
Closed           Annual Reporting         Report Processing         Create procedures made document processes associate training           Board Expenses 2010         Pre-approval of Travel         Update the Board Travel address situations where celpts are unavailable board-related expenses           Derivatives 2010         Semiannual Derivative Exposure Rpt Currency Forward Settlements         On a monthly basis, in Performance Dept. in reviews swap contractives sequence of the performance Dept.           Derivatives 2010         Semiannual Derivative Exposure Rpt Currency Forward Settlements         On a monthly basis, in Performance Dept.           Counterparty Risk         Cross-train another Imformance associate to backup coverage for 3 process         Process           Domestic Equities 2010*         Research Costs         Audit Resulted in No F           Monitoring of External Managers         Reporting/Accounting         Require that each dep a centralized list of a a centrelized list of a a ce	Create procedures manual to document processes and aid in associate training	Agree	Yes	7/1/2011		
Board Expenses 2010	Timeliness/Accuracy of Reimburse- ments	Update the Board Travel Policy to address situations where itemized receipts are unavailable for legitimate Board-related expenses	Agree	Yes	6/16/2011	
Derivatives 2010	Currency Forward Settlements	Performance Dept. independently reviews swap contract notional values are fully collateralized and inform	Agree	Yes	10/01/2010	
	Counterparty Risk	Cross-train another Investment Per- formance associate to provide proper backup coverage for State Street swap process	Agree	Yes	03/31/2011	
Domestic Equities 2010*	Monitoring of External Managers Reporting/Accounting External Manager Fees	Audit Resulted in No Recommendations	N/A	N/A	N/A	
Member Data Mgt.*	Transmission of Member	Require that each department maintain a centralized list of all external entities that have been granted access to STRS Ohio member data	Agree	Yes	6/16/2010	
		Require I.T.S. gather and update lists from each department, no less than annually, to facilitate data loss pre- vention projects	Agree	Yes	6/16/2010	
		Investigate the feasibility and cost/benefit of mandating information exchange formats and procedures	Agree	Yes	1/31/2011	
		Develop a centralized authority for review and determining acceptable risk related to data access	Agree	Yes	1/31/2011	

Audit Area	Scope	Recommendations	Management's Response	Implemented	Implementation Date
Purchasing Practices*	Compliance with Policies	Include Real Estate Dept. in the	Agree	Yes	2/21/2011
		in the Investment Policy Officer's			
	Due Diligence/Efficient Use of Resources	reviews			
	1103001003	Update Policy for Approval of	Agree	Yes	6/30/2011
	Receipt of Goods and Services	Administrative Expenses to	The state of the state		
		document the delegation of			
		signature authority, signature limitations, and review within a speci-	S. S		
		fied period of time.			
		Provide a centralized source of inform- ation that documents individuals with	Agree	Yes	6/30/2011
		sign-off capabilities and make it			
		available to the STRS Ohio Executive			
		Director			
Risk Mgt./Insurance*	Compliance with STRS Ohio	Independently monitor and verify	Agree	Yes	2/22/2011
	Insurance and Risk Management	all future insurance carrier credit		[	
	Manual	ratings			
	Carrier Ratings				
	-				
	Accuracy of Premium Payments		Í		
	Segregation of Duties				
	1 -	Active Audits		L	
Accounts Payable	Vendor Approval Process	Draft Report Under Mgmt Review	N/A	N/A	N/A
	Vendor Payment History				
	Segregation of Duties				
Alternative Investments	General Partner Review/Monitoring	Organize all documentation supporting	Agree	No	6/30/2012
2011	Valuations	the investment decision process, in a logical/structured manner			
	General Partner Fees	Schedule an external review of	Agree	No	6/30/2012
	Opportunistic/Diversified Invest-	Alternative Investments with Cliffwater			
	ment Program	(due diligence and monitoring) as as stated in the Investment Advisor			
		Agreement			
		Establish detailed policing/second-ups	A	N-	00/00/0040
		Establish detailed policies/procedures for monitoring general partners that	Agree	No	06/30/2012
		includes documentation of the		[	
		annual reviews			
ssociate Travel Expense	Prior Authorization	Audit Resulted in No Recommendations	N/A	N/A	N/A
	Compliance with STRS Ohio				
	Travel Policy				
	Approval/Payment of Travel Expenses				
ttendance Reporting	Accuracy of Database	Periodically validate the accuracy of	Recommendation	No	N/A
		data being sent the HRS to manage	Part of Current		
oard Expenses 2011	Compliance with Policies Pre-approval of Travel	attendance Draft Report Under Mgmt. Review	Mgmt. Discussions N/A	N/A	N/A
Janu LAponada 2011		Prair Report Order Wight, Review	IN/A		IN/A
	Timeliness/Accuracy of Reimburse-				
	ments			j l	
	Compliance with Board Policies				
usiness Continuity Plan	Compliance	Audit Initiated	N/A	N/A	N/A
child Care Center	Monitoring & Testing Compliance with State Licensing	Audit Initiated	N/A	N/A	N/A
		rue initiateu	IN/A	I INVA	IN/A
	State Inspections				
	Tuition Reymonth				
	Tuition Payments				
	Enrollment				

Audit Area	Scope	Recommendations	Management's Response	Implemented	Implementation Date
Derivatives 2011	Semi-Annual Derivate Exposure	Audit Initiated	N/A	N/A	N/A
	Report				
	Currency Forward Settlements				
	Equity Swap Settlements				
Disability Benefits	Counterparty Risk Reexamination Schedules	Audit Initiated	N/A	N/A	N/A
Disability Densitia				N/A	N/A
	Medical Invoice Payments				
	Terminated Benefits-Notification				
	Statement of Employment/Earnings				
Domestic Equities 2011	Monitoring of External Managers	Audit initiates 12/19/2011	N/A	N/A	N/A
	Recalculations of Management Fees				
	Approved Brokers		STATISTICS.		
	CRAME TO A CONTRACT OF			(注意)) 透明。	
	Research Costs				
	Reporting/Accounting				
	Compliance with Investment Policies				
Financial Reporting	Role-Based Security/Segregation	Audit Initiates 12/19/2011	N/A	N/A	N/A
	General Journal Entries				
	Disaster Recovery Process				
Tived Income Investments	Audit Trail Integrity				
Fixed-Income Investments	Due Diligence	Audit In Progress	N/A	N/A	N/A
	Approved Brokers				
	Accuracy of Pricing				
	Interest Income				
	Monitoring of External Managers				
	Compliance with Investment Policies				
lealthcare*	Records Retention/Mgmt	Begin identifying control/risk-based	Agree	Partial	Will be prioritized
	Contracts	STaRS management reporting needs and elevate the priority as			considering current STaRS needs and
	Issues Monitoring/Resolution	necessary/possible			addressed as
	Segregation of Duties				resources become available
	Disbursements Reconciliations				
nternational Investments	External Manager Fees	Create foreign tax receivable and	Agree	No	Mgmt. is currently
2010*	Monitoring of External Managers	dividend receivable journal entry accounts to track corporate actions			researching this issue
	Foreign Tax Reclamations	Portfolio managers document instances where their investment decisions	Agree	Yes	11/16/2011
	Foreign Currency Rates	place portfolios outside of guideline ranges for country sector weights			
	State Street's Role as Sub-Custodian	exposures			
		For consistency, require that State	Agree	No	Mgmt. Is currently
		Street's management fee be based			researching this
ternet/Intranet Security	Policy Appropriateness & Enforce-	on the monthly statement market value Draft Report Under Mgmt. Review	N/A	N/A	issue N/A
	ment		17/2	17/2	19/0
	Systems Access Revocation				

Audit Area	Scope	Recommendations	Management's Response	Implemented	Implementation Date
Liquidity Reserves	Compliance with Policies Accuracy of Interest Income Quality of Investments	Review the current guidelines to determine if risk control changes are warranted	Final Report Under Mgmt. Review	NA	N/A
Member Income Taxes	Daily Reconciliations Withholding Change Reconciliations	Research the cost/benefit of allowing	Agree	No	Will be prioritized
	Tax Interface Reconciliation & G/L Update Segregation of Duties	members to manage their tax withhold- ings through the STRS Ohio Internet site	Agree	NO	will be promuzed with other online services as part of the 2012-2013 budget process and STaRS review
Member Withdrawals	Compliance with ORC	Audit In Progress	N/A	N/A	N/A
Refund Estimates/Paymen Non-Zero Accounts 1099R					
Personal Investment	Compliance with Policy	Audit Initiated	N/A	N/A	N/A
Disclosure	Acruma //Completences				a strength and
Accuracy/Completeness Post-Retirement Benefits Death Match Process Annuity Certain Expirations Overpayment/Collections Disbursement Compliance		Audit In Progress	N/A	N/A	N/A
Service Retirement Benefits		Enforce proper segregation of duties	Agree	Yes	3/25/2011
	Documentation Benefit Calculations Management of Overpayments Segregation of Duties	and restrict Benefit Auditors' access levels to "Read Only" where appro- priate Create a retroactive report (back to STaRS activation date) to review new retirement activities and to review changes to existing member records	Agree	Yes	05/31/2011
		to verify appropriateness Create/use standardized documentation to be used to detail changes to member benefits information	Agree	Yes	05/31/2011
		I.T.S. and Member Benefits Depts. explore the cost/benefit of providing STRS Ohio members with an online service retirement-application service	Agree	No	03/31/2012
Survivor Benefits*	Benefit Calculations	Draft Report Under Mgmt Review	N/A	N/A	N/A
	Student Benefits	-			
	Segregation of Duties				
		Postponed Audits			
3enefit Payment Process**	Data Backup Pension Reconciliation & G/L Update Information Change Management	Audit to be performed considering outcome of scheduled, external general controls review	N/A	N/A	N/A
		Relevant		and the second se	
External IT Review**	Risk Assessment of IT Operations	Non-Internal Audit Reviews General controls review by external consultant is being coordinated by Mgmt.	N/A	N/A	N/A

\*Audits were listed as "Under Mgmt. Review", "In Progress", "Audit Initiated", or had not implemented recommendation(s) at the time of the last Annual Audit Summary presentation \*\* Changes in resources (human and/or technical), departmental workloads, and other issues may necessitate rescheduling of an audit or an understandable delay in the implementation of an

Internal Audit recommendation



STATE TEACHERS RETIREMENT SYSTEM OF OHIO

#### **Mission Statement**

To work in partnership with associates to conduct value-added independent appraisals of policies and procedures to contribute to the continuous improvement of STRS Ohio.

#### **Vision Statement**

To be recognized as an innovative department that, through independent appraisals and partnered solutions, strives for quality enhancements and the elimination of non-value-added processes.

To create an environment that encourages teamwork, innovation, open communication, empowerment and personal and professional growth.

## Guiding Principles

To achieve our mission and vision, we will:

- Prepare a comprehensive, practical, planned program of audit coverage consistent with STRS Ohio's mission, vision and guiding principles.
- Perform audits in compliance with professional standards.
- Verify the adequacy and effectiveness of STRS Ohio's systems of administrative, operating and financial controls.
- Understand the associates' business from their perspective.
- Produce objective, clear, concise, constructive and timely reports.
- Maintain contemporary professional proficiency through continuing education and training.
- Seek to continuously improve our team, tools and processes.
- Develop professional expertise for potential career opportunities within STRS Ohio.

## **EXECUTIVE SUMMARY**

2012 Internal Audit Schedule	1	Î
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## **DETAILED SUMMARY**

Risk Factors	3
Risk Assessment Scale	4
Assignment of Risk Rating	5
Risk Factors Weighted	8
2012 Internal Audit Work Plan	11

	2012 INTERNAL AUDIT SCHEDULE	SCHEDULE
Audit Area	Description of Audit Area Jan. Feb.	. Mar. Apr. May Jun. Jul. Aug. Sep. Oct. N
Annual Statements	Accuracy of Member Information Accuracy and Security of Statements External Contracts Segregation of Duties	
Early Retirement Incentive Credit	Eligibility Requirements ERI Cost Calculations ERI Internal Accrual Calculations Compliance With Ohio Revised Code Segregation of Duties	
Reemployed Retirees	Compliance With Ohio Revised Code Violations/Collections Lump-sum Calculation Input Controls	
Real Estate	Property Management Fees Site Inspections External Compliance Reviews Tenant Surveys Compliance With Investment Policy	
Defined Contribution Plan	Processing Plan Selection Forms NRS Contract Compliance Accuracy of Member Statements Segregation of Duties	
STRS Ohio Self Insurance	Identification/Mitigation of Key Risks Annual Reporting Allocation of Self Insurance Costs	
Petty Cash	Cafeteria Cash/Physical Security Cafeteria Deposits Segregation of Duties Cash Reconciliation Petty Cash Disbursements Cafeteria Operations - Ohio Sales Tax	
Purchasing Service Credit	STaRS Access Certifications and Cost Calculations Member Applications Posting of Purchased Credits Free Military Service Credits Compliance With Ohio Revised Code	
Building Maintenance	Purchases of Goods and Services Preventive Maintenance Associate Training Quality Assurance	
Board Expenses	Preapproval of Travel Accuracy of Reimbursements Compliance With Rules/Policies	

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Audit Area	<b>Description of Audit Area</b>	Jan. F	Feb. 1	Mar. A	Apr. N	May Jun.	. Jul.	Aug.	Sep.	Oct. Þ
Investment Performance	Accuracy of PBI Awards Investment Policy Compliance								Stanvelie Lint	
Records Management	Compliance Imaging - Quality Control Off-Site Storage Facility Inspections Disaster Recovery									
Contribution Reporting	Foundation Management Employee Contribution Management G/L Postings Segregation of Duties Annual Report Management									
Alternative Investments	Opportunistic/Diversified - Due Diligence Opportunistic/Diversified - Monitoring Opportunistic/Diversified - Valuations									
Purchasing Servce Credit by Payroll Deduction	Member Applications Processing of Receipts Segregation of Duties Payroll Deduction Refunds									
Enterprise Risk Management	Review of Risk Management Process Review of Reporting of Key Risks Review of Management of Key Risks									
Fixed Assets	Tracking, Reporting, and Monitoring Depreciation Disposition						8			
Fixed Assets — Computer Equipment	Purchasing Accuracy of Inventory Records Disposition									
Domestic Equities	Compliance With Investment Policy Monitoring of External Portfolio Managers Investment Management Fees Reporting/Accounting Research Costs Approved Brokers Custodian									
Postage	Compliance With Policies/Procedures Disbursements									EAST OF ST
Proxy Voting	Proxy Voting for Passive Investments Proxy Voting for Active Investments Compliance With Proxy Voting Policy									

<b>Risk Factor</b>	Risk Factor Description	Weighting
А	Adequacy and Effectiveness of the System of Internal Controls	9
В	Major Changes in Technology, Operations, the Organization or the Economy	8
С	Dates and Results of Previous Audits	7
D	Recent or Relevant Changes in Key Personnel	6
Е	Complexity or Volatility of Activities	5
F	Asset Size or Transaction Volume	4

The risk assessment scale is a 9-point system with graduations of risk as follows:

<b>Risk Factor Description</b>	Score
Extremely Risky	9
Very Risky	7
Risky	5*
Slightly Risky	3
Not Risky	1

2			Ris	k Facto	rs*		
Audit Area	Α	В	С	D	Ε	F	Total
ADI	MINISTR	RATION					
Associate Payroll	2	2	2	2	2	3	13
Associate Travel Expenses	2	2	3	2	2	2	13
Attendance Reporting	3	2	3	2	2	3	15
Benefit Payment Process	3	4	3	3	3	3	19
Board Expenses	2	2	2	2	2	2	12
Building Maintenance	2	2	2	2	2	2	12
Business Continuity Plan	3	3	3	3	4	3	19
Child Care Center	2	2	2	2	2	2	12
Educational Assistance Program	2	2	2	2	2	2	12
Fixed Assets — Computer Equipment	3	3	3	3	3	3	18
Flexible Spending Plans	2	2	3	2	2	2	13
Insurance/Risk Management	2	3	2	2	2	2	13
Internet/Intranet	2	3	3	2	3	3	16
Network Security	3	3	3	2	2	2	15
Ohio Ethics Commission Reporting	1	2	1	2	2	1	9
Other Staff Expenses	2	2	3	2	1	1	11
Personal Investment Disclosure	2	2	2	2	2	2	12
Postage	2	2	3	2	2	3	14
Purchasing Practices	3	2	3	2	2	3	15
STRS Ohio Self Insurance Plan	3	3	5	2	3	3	19
Unused Sick and Vacation Leave	2	2	2	2	2	1	11

			Ris	k Facto	rs*		
Audit Area	Α	В	С	D	Е	F	Total
	FINAN	ICE					
Accounts Payable	2	2	2	2	2	2	12
Annual Reporting	2	3	2	2	2	2	13
Contribution Reporting	2	3	2	2	2	3	14
Early Retirement Incentive Credit	2	2	2	2	3	2	13
Financial Reporting (STRS Ohio)	3	3	2	2	4	4	18
Fixed Assets	3	2	3	2	2	2	14
Member Income Taxes	4	4	2	2	3	4	19
Member Withdrawals	2	3	2	2	2	2	13
Petty Cash	3	2	4	3	1	1	14
Purchasing Service Credit							
by Payroll Deduction	2	4	2	2	3	2	15

INVESTMENTS												
Alternative Investments	4	4	3	2	4	3	20					
Derivatives	3	4	2	2	4	3	18					
Domestic Equities	3	4	2	2	4	5	20					
Fixed Income	2	4	2	2	3	3	16					
International Investing	4	4	2	3	4	5	22					
Investment Performance	2	2	2	2	3	2	13					
Liquidity Reserves	2	3	2	2	2	2	13					
Proxy Voting	2	2	2	2	2	1	11					
Real Estate	3	4	3	2	3	3	18					
Securities Lending	2	4	2	2	3	4	17					

	Risk Factors*								
Audit Area	Α	В	С	D	Е	F	Total		
ME	EMBER B	ENEFIT	rs						
Annual Statements	2	2	2	2	2	2	12		
Call Center	2	2	2	2	2	2	12		
Defined Contribution Plan	2	2	2	2	2	2	12		
Disability Benefits	3	3	3	2	2	2	15		
Health Care	3	3	2	2	3	4	17		
Member Data Management	3	4	4	2	2	2	17		
Benefit Services (Post Retirement)	3	4	2	2	2	2	15		
Purchasing Service Credit	2	3	2	2	3	2	14		
Records Management	2	2	2	2	2	3	13		
Reemployed Retirees	3	3	3	3	2	2	16		
Service Retirement Benefits	2	4	2	3	3	4	18		
Survivor Benefits	2	3	2	3	2	2	14		

	Risk Factors*							
Audit Area	Α	В	С	D	Е	F	Total	
AD	MINIST	RATIO	N					
Associate Payroll	18	16	14	12	10	12	82	
Associate Travel Expenses	18	16	21	12	10	8	85	
Attendance Reporting	27	16	21	12	10	12	98	
Benefit Payment Process	27	32	21	18	15	12	125	
Board Expenses	18	16	14	12	10	8	78	
Building Maintenance	18	16	14	12	10	8	78	
Business Continuity Plan	27	24	21	18	20	12	122	
Child Care Center	18	16	14	12	10	4	74	
Educational Assistance Program	18	16	14	12	10	8	78	
Fixed Assets — Computer Equipment	27	24	21	18	15	12	117	
Flexible Spending Plans	18	16	21	12	10	8	85	
Insurance/Risk Management	18	24	14	12	10	8	86	
Internet/Intranet	18	24	21	12	15	12	102	
Network Security	27	24	21	12	10	8	102	
Ohio Ethics Commission Reporting	9	16	7	12	10	4	58	
Other Staff Expenses	18	16	21	12	5	4	76	
Personal Investment Disclosure	18	16	14	12	10	8	78	
Postage	18	16	21	12	10	12	89	
Purchasing Practices	27	16	21	12	10	12	98	
STRS Ohio Self Insurance Plan	27	24	35	12	15	12	125	
Unused Sick and Vacation Leave	18	16	14	12	10	4	74	

	Risk Factors*							
Audit Area	A	В	С	D	E	F	Tota	
	FINA	NCE						
Accounts Payable	18	16	14	12	10	8	78	
Annual Reporting	18	24	14	12	10	8	86	
Contribution Reporting	18	24	14	12	10	12	90	
Early Retirement Incentive Credit	18	16	14	12	15	8	83	
Financial Reporting (STRS Ohio)	27	24	14	12	20	16	113	
Fixed Assets	27	16	21	12	10	8	94	
Member Income Taxes	36	32	14	12	15	16	125	
Member Withdrawals	18	24	14	12	10	8	86	
Petty Cash	27	16	28	18	5	4	98	
Purchasing Service Credit								
by Payroll Deduction	18	32	14	12	15	8	99	

	the second s							
	INVEST	VESTMENTS				a second and a second		
Alternative Investments	36	32	21	12	20	12	133	
Derivatives	27	32	14	12	20	12	117	
Domestic Equities	27	32	14	12	20	20	125	
Fixed Income	18	32	14	12	15	12	103	
International Investing	36	32	14	18	20	20	140	
Investment Performance	18	16	14	12	15	8	83	
Liquidity Reserves	18	24	14	12	10	8	86	
Proxy Voting	18	16	14	12	10	4	74	
Real Estate	27	32	21	12	15	12	119	
Securities Lending	18	32	14	12	15	16	107	

	Risk Factors*								
Audit Area	Α	В	С	D	Е	F	Total		
ME	MBER B	ENEFI	TS		1997 - 1997 1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1 1997 -				
Annual Statements	18	16	14	12	10	8	78		
Call Center	18	16	14	12	10	8	78		
Defined Contribution Plan	18	16	14	12	10	8	78		
Disability Benefits	27	24	21	12	10	8	102		
Health Care	27	24	14	12	15	16	108		
Member Data Management	27	32	28	12	10	8	117		
Benefit Services (Post Retirement)	27	32	14	12	10	8	103		
Purchasing Service Credit	18	24	14	12	15	8	91		
Records Management	18	16	14	12	10	12	82		
Reemployed Retirees	27	24	21	18	10	8	108		
Service Retirement Benefits	18	32	14	18	15	16	113		
Survivor Benefits	18	24	14	18	10	8	92		

			Risk	Last	Estimated Audit	Estimated Audit	
Audit Area	Priority	Dept.	Score	Audit	Date	Hours	<b>Risk Codes</b>
International Investing	HIGH	I	140	2011			F, I, C, O
Alternative Investments	HIGH	I	133	2011	Sep-12	120	F, I, C, O
Domestic Equities	HIGH	1	125	2011	Oct-12	240	F, I, C, O
Real Estate	HIGH	1	119	2010	Mar-12	320	F, I, C, O
Derivatives	HIGH	I	117	2011			F, I, C, O
Fixed Income	HIGH	Ι	103	2011			F, I, C, O
Liquidity Reserves	HIGH	I	86	2011			F, I, C, O
Business Continuity Plan	MED.	A	122	2011			F,I, C, O
Member Data Management	MED.	MB	117	2009			PS, C
Financial Reporting (STRS Ohio)	MED.	F	113	2011			I, C, O
Service Retirement Benefits	MED.	MB	113	2010			I, C, O
Health Care	MED.	MB	108	2011			I, C, O
Contribution Reporting	MED.	F	90	2008	Aug-12	120	I, C, O
Insurance/Risk Management	MED.	Α	86	2010			F,I, C, O
Annual Reporting	MED.	F	86	2010			I, C, O
Accounts Payable	MED.	F	78	2011			I, C, O
Annual Statements	MED.	MB	78	2007	Jan-12	120	I, C, O
Defined Contribution Plan	MED.	MB	78	2007	Apr-12	160	I, C, O
STRS Ohio Self Insurance Plan	LOW	A	125	N/A	Apr-12	160	I, C, O
Benefit Payment Process	LOW	A	125	2011			I, C, O
Member Income Taxes	LOW	F	125	2011			I, C, O
Fixed Assets-Computer Equipment	LOW	А	117	2008	Oct-12	160	I, C, O
Reemployed Retirees	LOW	MB	108	2008	Feb-12	120	I, C, O
Securities Lending	LOW		107	2010			I, C, O

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- O: Operational = Risk related to operational efficiencies/inefficiencies
- PS: Public Sensitivity = No material financial impact but high public sensitivity

Audit Area	Priority	Dept.	Risk Score	Last Audit	Estimated Audit Date	Estimated Audit Hours	Risk Codes
Benefit Services							
(Post Retirement)	LOW	MB	103	2011			I, C, O
Internet/Intranet	LOW	A	102	2011			I, C, O
Network Security	LOW	Α	102	2010			I, C, O
Disability Benefits	LOW	MB	102	2011			I, C, O
Purchasing Service Credit by Payroll Deduction	LOW	F	99	2008	Sep-12	160	I, C, O
Purchasing Practices	LOW	 A	98	2010			I, C, O, PS
Attendance Reporting	LOW	A	98	2010			I, C, O
Petty Cash	LOW	 F	98	2009	May-12	40	I, C, O, PS
Fixed Assets	LOW	F	94	2009	Oct-12	120	I, C, O
Survivor Benefits	LOW	MB	92	2011			I, C, O
Purchasing Service Credit	LOW	MB	91	2008	May-12	160	I, C, O
Postage	LOW	A	89	2009	Nov-12	80	I, C, O
Member Withdrawals	LOW	F	86	2011			I, C, O
Flexible Spending Programs	LOW	А	85	2009			I, C, O
Associate Travel Expenses	LOW	А	85	2011			I, C, O, PS
Investment Performance	LOW		83	2011	Aug-12	160	I, C, O
Early Retirement Incentive Credit	LOW	F	83	2005	Jan-12	120	I, C, O
Records Management	LOW	MB	82	2008	Aug-12	120	C, O
Associate Payroll	LOW	Α	82	2010		<u></u>	I, C, O
Call Center	LOW	MB	78	2008			C, O
Board Expenses	LOW	Α	78	2011	Jun-12	40	I, C, O, PS
Building Maintenance	LOW	Α	78	2008	Jun-12	120	I, C, O
Educational Assistance Program	LOW	А	78	2009			I, C, O

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Audit Area	Priority	Dept.	Risk Score	Last Audit	Estimated Audit Date	Estimated Audit Hours	Risk Codes
Personal Investment Disclosure	LOW	А	78	2011			I, C
Child Care Center	LOW	Α	78	2011			I, C, O
Other Staff Expenses	LOW	Α	76	2009			I, C, O, PS
Unused Sick and Vacation Leave	LOW	A	74	2009			I, C, O
Proxy Voting	LOW	1	74	2008	Dec-12	80	I, C
OEC Reporting	LOW	Α	58	2008			I, C, O, PS

Total Hours 2720

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