



STATE BOARD OF DEPOSIT STATE OF OHIO

Members:

Robert Sprague, Chairman
Treasurer of State
Dave Yost
Attorney General
Keith Faber
Auditor of State

CERTIFICATION OF THE EXPENSES OF THE STATE BOARD OF DEPOSIT

In accordance with Chapter 135.02 of the Ohio Revised Code, the undersigned, Chairman and Secretary of the State Board of Deposit of the State of Ohio, hereby certifies that the necessary expenses of the Board, which represent JP Morgan Chase Bank banking fees [TOS Consolidation Account] for the month of December 2018, are \$400.26.

Robert Cole Sprague

CHAIRMAN

Stacey Cumberland

SECRETARY

February 8, 2019

DATE



J.P.Morgan

JPMORGAN CHASE BANK, N.A.

INVOICE #: 000100000001524408

ACCOUNT: 001 000000000704346915
PRODUCTION DATE: 01-07-2019

STATE OF OHIO TREASURER OF STATE
JOSH MANDEL - TOS CONSOLIDATION ACCT
30 E BROAD ST 10TH FL
ATTN RECONCILIATION DEPT
COLUMBUS OH 43266-0421

OFFICER CONTACT:
GEORGE SESOCK
(330) 972-1762

OTHER CONTACT:
GLOBAL CLIENT CARE SERVICE CTR
(888) 434-3030

BILLING ACTIVITY

Charges and other debits

Invoice Date	Invoice	Description	Amount
10-31-2018	000100000001521752	PREVIOUS SERVICE CHARGE	287.56
11-30-2018	000100000001523073	PREVIOUS SERVICE CHARGE	407.85
12-31-2018	000100000001524408	CURRENT SERVICE CHARGE	400.26
TOTAL			1,095.67

Payments and other credits

Effective Date	Invoice	Post Date	Description	Amount
07-24-2018	000100000001515103	07-24-2018	INVOICED PAYMENT RECEIVED	451.43
09-04-2018	000100000001516411	09-04-2018	INVOICED PAYMENT RECEIVED	441.14
09-27-2018	000100000001517733	09-27-2018	INVOICED PAYMENT RECEIVED	447.24
11-13-2018	000100000001519024	11-13-2018	INVOICED PAYMENT RECEIVED	446.02
12-19-2018	000100000001520410	12-19-2018	INVOICED PAYMENT RECEIVED	428.99
TOTAL			2,214.82	

INVOICE SUMMARY

Date	Invoice	Total Billed	Total Paid to Date	Outstanding Amount
10-31-2018	000100000001521752	423.88	136.32	287.56
11-30-2018	000100000001523073	407.85	0.00	407.85
12-31-2018	000100000001524408	400.26	0.00	400.26
TOTAL OUTSTANDING AMOUNT (01-31-2019)				1,095.67

Account Analysis Payment Remittance

(Please detach and return this portion of the invoice with payment)

Customer Name: STATE OF OHIO TREASURER OF STATE
Account: 001 000000000704346915
Production Date: 01-07-2019
Payment Due On: 01-31-2019
Invoice Number: 000100000001524408

Total Amount Due \$ 1,095.67

Amount Enclosed \$

JPMORGAN CHASE BANK, N.A.
P. O. BOX 973636
DALLAS TX 75397-3636

ACH/Wire payments: ABA 044000037 Account# 619983497
(Please reference your invoice and/ or account number within the Addenda or Payment Detail field)

****The Total Amount Due does not include payments received after 12-31-2018.****

JPMorgan

STATE OF OHIO TREASURER OF STATE
 JOSH MANDEL - TOS CONSOLIDATION ACCT
 30 E BROAD ST 10TH FL
 ATTN RECONCILIATION DEPT
 COLUMBUS OH 43266-0421

ACCOUNT ANALYSIS STATEMENT
 FOR DECEMBER 2018

PAGE 1 OF 6

ACCOUNT: 001 000000000704346915
 PRODUCTION DATE: 01-07-2019

DETAIL OF ACCOUNT 001 000000000704346915

OFFICER CONTACT:
 GEORGE SESOCK
 (330) 972-1762

OTHER CONTACT:
 GLOBAL CLIENT CARE SERVICE CTR
 (888) 434-3030

BALANCE AND COMPENSATION ANALYSIS

EARNINGS ALLOWANCE RATE: 2.407%
 MULTIPLIER: \$ 489.03000

AFP CODE	DESCRIPTION	BALANCE INFORMATION	COMPENSATION INFORMATION
000000	AVERAGE NET LEDGER BALANCE	0	0.00
000030	LESS AVERAGE FLOAT BALANCE	0	0.00
000010	AVERAGE NET COLLECTED BALANCE	0	0.00
000011	AVG POSITIVE COLLECTED BALANCE	0	0.00
000420	LESS DDA BAL RESERVE REQUIREMENT	0	0.00
000040	INVESTABLE BALANCE	0	0.00
000400	BAL EQUIVLT-TOT SERVICE CHRGS	-195,742	0.00
000410	EXCESS/(DEFICIT) INVESTIBLE BAL	-195,742	0.00
000240	EARNINGS ALLOWANCE	0	0.00
000331	BAL COMPENSABLE SRVC CHARGES	0	-400.26
000241	EXCESS/(DEFICIT) EARNING ALLOW	0	-400.26
000314	SERVICE CHARGE AMOUNT	0	400.26

OK
 1/25/19



10211080603000000046

ACCOUNT ANALYSIS STATEMENT
FOR DECEMBER 2018

PAGE 2 OF 6

ACCOUNT: 001 000000000704346915
PRODUCTION DATE: 01-07-2019

DETAIL OF ACCOUNT 001 000000000704346915

JPMorgan
STATE OF OHIO TREASURER OF STATE

ACTIVITY SUMMARY

PRODUCT LINE AND DESCRIPTION	BANK SERVICE CODE	AFP SERVICE CODE	UNIT PRICE (\$)	VOLUME	SERVICE CHARGE (\$)	BALANCE EQUIVALENT (\$)	FEE BASED CHARGES (\$)
ACCOUNT SERVICES							
ACCOUNT MAINTENANCE	01005	010000	8.0000	1	8.00	3,912	0.00
STATEMENT CYCLES	01010	010307	0.0000	1	0.00	0	0.00
POST NO CHECKS MAINTENANCE	03499	1500ZZ	1.0000	1	1.00	489	0.00
SUBTOTAL					9.00	4,401	
AUTOMATED CLEARING HOUSE							
ACH MAINTENANCE	02695	250000	10.0000	1	10.00	4,890	0.00
SUBTOTAL					10.00	4,890	
HOST TO HOST							
EDI 822 ANALYSIS MODULE MAINT	01033	010400	0.0000	1	0.00	0	0.00
EDI 822 ANALYSIS ACCT MAINT	01034	010400	5.0000	8	40.00	19,561	0.00
SUBTOTAL					40.00	19,561	
JPMORGAN ACCESS							
ACCOUNTS REPORTED	06041	40044Z	15.0000	3	45.00	22,007	0.00
MONTHLY SERVICE	06040	400610	50.0000	1	50.00	24,452	0.00
TRANSACTIONS REPORTED - 45 DAY	06043	40066Z	0.1000	46	4.60	2,250	0.00
EXTENDED TRANSACTION DETAIL	06053	40066Z	0.0000	8	0.00	0	0.00
ACCT TRANSFER ITEM	06076	400699	1.0000	1	1.00	489	0.00
SUBTOTAL					100.60	49,197	
BAI/SWIFT/ISO REPORTING							
H2H TRANS DETAIL REPORTED	06094	400110	0.0300	3	0.09	44	0.00
H2H NON-CHECK ITEMS REPORTED	06095	400110	0.0300	19	0.57	279	0.00
H2H FILES TRANSMITTED OVER 67	03653	4004ZZ	0.0000	21	0.00	0	0.00
H2H ACCOUNTS REPORTED	06085	4004ZZ	30.0000	2	60.00	29,342	0.00
SUBTOTAL					60.66	29,665	
INT REC & PAY - RECONCILE / 71							
5681							
CLOSED LBX IMAGE VIEWING	06139	050005	20.0000	1	20.00	9,781	0.00
SUBTOTAL					20.00	9,781	

ACCOUNT ANALYSIS STATEMENT
FOR DECEMBER 2018

PAGE 3 OF 6

ACCOUNT: 001 000000000704346915
PRODUCTION DATE: 01-07-2019

DETAIL OF ACCOUNT 001 000000000704346915

JPMorgan
STATE OF OHIO TREASURER OF STATE

ACTIVITY SUMMARY

PRODUCT LINE AND DESCRIPTION	BANK SERVICE CODE	AFP SERVICE CODE	UNIT PRICE (\$)	VOLUME	SERVICE CHARGE (\$)	BALANCE EQUIVALENT (\$)	FEE BASED CHARGES (\$)
INT REC & PAY - RECONCILE / 78 1166 CLOSED LBX IMAGE VIEWING	06139	050005	20.0000	1	20.00	9,781	0.00
SUBTOTAL					20.00	9,781	
INT REC & PAY - RECONCILE / 78 1216 CLOSED LBX IMAGE VIEWING	06139	050005	20.0000	1	20.00	9,781	0.00
SUBTOTAL					20.00	9,781	
INT REC & PAY - RECONCILE / 78 12161 CLOSED LBX IMAGE VIEWING	06139	050005	20.0000	1	20.00	9,781	0.00
SUBTOTAL					20.00	9,781	
INT REC & PAY - RECONCILE / 78 12162 CLOSED LBX IMAGE VIEWING	06139	050005	20.0000	1	20.00	9,781	0.00
SUBTOTAL					20.00	9,781	
INT REC & PAY - RECONCILE / 78 12163 CLOSED LBX IMAGE VIEWING	06139	050005	20.0000	1	20.00	9,781	0.00
SUBTOTAL					20.00	9,781	
INT REC & PAY - RECONCILE / 78 12164 CLOSED LBX IMAGE VIEWING	06139	050005	20.0000	1	20.00	9,781	0.00
SUBTOTAL					20.00	9,781	
INT REC & PAY - RECONCILE / 78 12165 CLOSED LBX IMAGE VIEWING	06139	050005	20.0000	1	20.00	9,781	0.00
SUBTOTAL					20.00	9,781	



ACCOUNT ANALYSIS STATEMENT
FOR DECEMBER 2018

PAGE 4 OF 6

ACCOUNT: 001 000000000704346915
PRODUCTION DATE: 01-07-2019

J.P.Morgan

STATE OF OHIO TREASURER OF STATE

DETAIL OF ACCOUNT 001 000000000704346915

ACTIVITY SUMMARY

PRODUCT LINE AND DESCRIPTION	BANK SERVICE CODE	AFP SERVICE CODE	UNIT PRICE (\$)	VOLUME	SERVICE CHARGE (\$)	BALANCE EQUIVALENT (\$)	FEE BASED CHARGES (\$)
INT REC & PAY - RECONCILE / 78 1859							
CLOSED LBX IMAGE VIEWING	06139	050005	20.0000	1	20.00	9,781	0.00
SUBTOTAL					20.00	9,781	
TOTAL CHARGE FOR SERVICES		000300			400.26	0	
TOTAL FEE BASED CHARGES		000330			0.00	0	
BAL COMPENSABLE SRVC CHARGES		000331			-400.26	0	
BAL EQUIVINT-TOT SERVICE CHRGS		000400			0.00	195,742	

ACCOUNT ANALYSIS STATEMENT
FOR DECEMBER 2018

ACCOUNT: 001 000000000704346915
PRODUCTION DATE: 01-07-2019

JPMorgan

STATE OF OHIO TREASURER OF STATE

DETAIL OF ACCOUNT 001 000000000704346915

RELATIONSHIP BALANCE COMPENSATION HISTORY

MONTH	AVERAGE NET LEDGER BALANCE (\$)	AVERAGE NET COLLECTED BALANCE (\$)	INVESTABLE BALANCE (\$)	BALANCE EQUIVALENT TOTAL SERVICE CHARGES (\$)	EXCESS/ (DEFICIT) INVESTABLE BALANCE (\$)	EARNINGS ALLOWANCE RATE (%)	EARNINGS ALLOWANCE (\$)	BALANCE COMPENSABLE SERVICE CHARGES (\$)	EXCESS/ (DEFICIT) EARNINGS ALLOWANCE (\$)
JAN	57	57	57	294,724	-294,667		0	445	-445
FEB	0	0	0	275,042	-275,042		0	426	-426
MAR	0	0	0	219,979	-219,979		0	432	-432
APR	0	0	0	225,915	-225,915		0	439	-439
MAY	0	0	0	228,981	-228,981		0	451	-451
JUN	0	0	0	229,785	-229,785		0	441	-441
JUL	0	0	0	224,218	-224,218		0	447	-447
AUG	0	0	0	226,286	-226,286		0	446	-446
SEP	0	0	0	217,621	-217,621		0	429	-429
OCT	0	0	0	195,069	-195,069		0	424	-424
NOV	0	0	0	212,410	-212,410		0	408	-408
DEC	0	0	0	195,742	-195,742		0	400	-400
JAN - DEC AVERAGE	5	5	5	228,814					
JAN - DEC NET					-2,745,715		0	5,188	-5,188



Board of Deposit
Chase Consolidation Account 6915 - December 2018

Bank Code	Service Code	Description	Unit Price	Total Units	Total Amount	List Price	Variance	Comments
1005	01 00 00	ACCOUNT MAINTENANCE	8	1	\$ 8.00	\$ 8.00	\$ -	
6041	40 04 4Z	ACCOUNTS REPORTED	15	3	\$ 45.00	\$ 45.00	\$ -	
6076	40 06 99	ACCT TRANSFER ITEM	1	1	\$ 1.00	\$ 1.00	\$ -	
2695	25 00 00	ACH MAINTENANCE	10	1	\$ 10.00	\$ 10.00	\$ -	
6139	05 00 05	CLOSED LBX IMAGE VIEWING 715681	20	1	\$ 20.00	\$ 20.00	\$ -	
6139	05 00 05	CLOSED LBX IMAGE VIEWING 781166	20	1	\$ 20.00	\$ 20.00	\$ -	
6139	05 00 05	CLOSED LBX IMAGE VIEWING 781216	20	1	\$ 20.00	\$ 20.00	\$ -	
6139	05 00 05	CLOSED LBX IMAGE VIEWING 7812162	20	1	\$ 20.00	\$ 20.00	\$ -	
6139	05 00 05	CLOSED LBX IMAGE VIEWING 7812163	20	1	\$ 20.00	\$ 20.00	\$ -	
6139	05 00 05	CLOSED LBX IMAGE VIEWING 7812164	20	1	\$ 20.00	\$ 20.00	\$ -	
6139	05 00 05	CLOSED LBX IMAGE VIEWING 7812165	20	1	\$ 20.00	\$ 20.00	\$ -	
6139	05 00 05	CLOSED LBX IMAGE VIEWING 781859	20	1	\$ 20.00	\$ 20.00	\$ -	
6139	05 00 05	CLOSED LBX IMAGEVIEWING 7812161	20	1	\$ 20.00	\$ 20.00	\$ -	
1034	01 04 00	EDI 822 ANALYSIS ACCT MAINT	5	8	\$ 40.00	\$ 40.00	\$ -	
1033	01 04 00	EDI 822 ANALYSIS MODULE MAINT	0	1	\$ -	\$ -	\$ -	
6053	40 06 6Z	EXTENDED TRANSACTION DETAIL	0	8	\$ -	\$ -	\$ -	
6085	40 04 ZZ	H2H ACCOUNTS REPORTED	30	2	\$ 60.00	\$ 60.00	\$ -	
3653	40 04 ZZ	H2H FILES TRANSMITTED OVER 67	0	21	\$ -	\$ -	\$ -	
6095	40 01 10	H2H NON-CHECK ITEMS REPORTED	0.03	19	\$ 0.57	\$ 0.57	\$ -	
6094	40 01 10	H2H TRANS DETAIL REPORTED	0.03	3	\$ 0.09	\$ 0.09	\$ -	
6040	40 06 10	MONTHLY SERVICE	50	1	\$ 50.00	\$ 50.00	\$ -	
3499	15 00 ZZ	POST NO CHECKS MAINTENANCE	1	1	\$ 1.00	\$ 1.00	\$ -	
1010	01 03 07	STATEMENT CYCLES	0	1	\$ -	\$ -	\$ -	
6043	40 06 6Z	TRANSACTIONS REPORTED - 45 DAY	0.1	46	\$ 4.60	\$ 4.60	\$ -	
Total					\$ 400.26	\$ 400.26	\$ -	

Service Fee Total	\$ 400.26
Earnings Credit Allowance	\$ -
Total	\$ 400.26



STATE BOARD OF DEPOSIT

STATE OF OHIO

Members:
Robert Sprague, Chairman
Treasurer of State
Dave Yost
Attorney General
Keith Faber
Auditor of State

CERTIFICATION OF THE EXPENSES OF THE STATE BOARD OF DEPOSIT

In accordance with Chapter 135.02 of the Ohio Revised Code, the undersigned, Chairman and Secretary of the State Board of Deposit of the State of Ohio, hereby certifies that the necessary expenses of the Board, which represent Huntington banking fees [ODNR-Division of Reclamation] for December 2018, are \$118.02.

Robert Cole Sprague

CHAIRMAN

Stacey Cumberland

SECRETARY

February 8, 2019

DATE

THE HUNTINGTON NATIONAL BANK
 PO BOX 1558 EA2W20
 COLUMBUS OH 43216-1558



TREAS-ST OH DEPT NATURAL RESOURCES
 RECLAMATION
 30 E. BROAD STREET 10TH FLOOR
 COLUMBUS OH 43215-3414

Invoice Reprint
 Direct inquiries to your Relationship Manager
 or to Huntington Business Direct at
 1-800-480-2001

Account Analysis Statement

Group: 801892412957

Analysis Period From 12/01/2018
 To 12/31/2018
 Statement Date 01/09/2019

Account Summary Section

Group Account: 801892412957

Balance Analysis		Service Charge Analysis	
AVERAGE BALANCE	24,657.69	EARNINGS CREDIT ALLOWANCE	21.98
LESS AVERAGE FLOAT	.00	TOTAL CHARGE FOR SERVICES	-140.00
AVERAGE COLLECTED BALANCE	24,657.69	NET CHARGE FOR SERVICES	-118.02
AVG POSITIVE COLLECTED BALANCE	24,657.69	***SERVICE CHARGE AMOUNT	118.02
LESS RESERVE REQUIRED	.00		
AVERAGE AVAILABLE BALANCE	24,657.69		
LESS BALANCE REQUIRED	-156,940.00		
NET AVAILABLE BALANCE	-132,282.31		
TOTAL DEFICIT BALANCE	-132,282.31		

SR
 1/25/19

Service Charge Detail

Group Account: 801892412957

Service Code	AFP Code	Service Description	Volume	Unit Price	Charge for Service
GENERAL ACCOUNT SERVICES					
0021	010000	MONTHLY SERVICE FEE	1	13.0000	13.00
0104	010307	PAPERLESS STATEMENT	1	.0000	.00
ACCOUNT ANALYSIS					
3004	300100	ANALYSIS STATEMENT VIA EDI	1	15.0000	15.00
BUSINESS SECURITY SUITE					
0183	251053	ACH POS PAY-ALERTS	585	.0000	.00
1490	251050	ACH POS PAY ONLY ACCT	1	20.0000	20.00
BUSINESS ONLINE-BOL					
3722	4000ZZ	BOL ACCOUNT MAINT-BASIC	1	.0000	.00
3742	400272	BOL PREVIOUS DAY ITEMS-BASIC	20	.0000	.00
INFORMATION REPORTING					
4005	40001Z	INFO RPT-TRANS - MONTHLY MAINT	1	15.0000	15.00
4006	400230	INFO RPT-TRANS - PREV DAY SUMM	220	.3500	77.00
TOTAL CHARGE FOR SERVICES					140.00

Please review your statement within 30 days and notify the bank of any questions. We will research your inquiry and notify you of any findings. After 30 days, the items on the statement will be deemed to be correct.

THE HUNTINGTON NATIONAL BANK
PO BOX 1558 EA2W20
COLUMBUS OH 43216-1558



TREAS-ST OH DEPT NATURAL RESOURCES
RECLAMATION
30 E. BROAD STREET 10TH FLOOR
COLUMBUS OH 43215-3414

Invoice Reprint
Direct inquiries to your Relationship Manager
or to Huntington Business Direct at
1-800-480-2001

Account Analysis Statement

Group: 801892412957

Account: 01892412957

Analysis Period From 12/01/2018
To 12/31/2018

Statement Date 01/09/2019

Invoice Due Date* 01/30/2019

* Please remit the Total Amount Due of 121.87 before this date

Invoice Details

Group: 801892412957

Description

Previous Balance 358.76

Payments Received

12/03/2018 Invoice # 8900000000049829	114.31
12/03/2018 Invoice # 8900000000060266	126.72
12/17/2018 Invoice # 8900000000060714	114.88

Grand Total Payments Received 354.91-

Account Summary of Charges
Previous Invoice Balance 3.85
Total Past Due 3.85

Current Service Charges 118.02

Total Amount Due 121.87

Statement Period 12/01/2018 to 12/31/2018 Page 3 of 4

(please fold and tear here to remit this portion with your payment)

TREAS-ST OH DEPT NATURAL RESOURCES
RECLAMATION
30 E. BROAD STREET 10TH FLOOR
COLUMBUS OH 43215-3414

Group #:801892412957
Invoice Date: 12/31/2018
Invoice #: 008900000000061099

THE HUNTINGTON NATIONAL BANK
DEPT. L-2043
COLUMBUS OHIO 43260

Payment Due on 01/30/2019

Amount Due 121.87

Amount Enclosed:

\$

Checks and money orders should be made payable to Huntington National Bank

THE HUNTINGTON NATIONAL BANK
 PO BOX 1558 EA2W20
 COLUMBUS OH 43216-1558



TREAS-ST OH DEPT NATURAL RESOURCES
 DIVISION OF RECLAMATION
 30 E. BROAD STREET 10TH FLOOR
 COLUMBUS OH 43215-3414

Invoice Reprint
 Direct inquiries to your Relationship Manager
 or to Huntington Business Direct at
 1-800-480-2001

Account Analysis Statement

Group: 801892412957

Account: 01892412957

Analysis Period From 12/01/2018
 To 12/31/2018
 Statement Date 01/09/2019

Account Summary Section

Public Fund Analyzed Checking Account: 01892412957

Balance Analysis		Service Charge Analysis	
AVERAGE BALANCE	24,657.69	EARNINGS CREDIT ALLOWANCE 1.050 %	21.98
LESS AVERAGE FLOAT	.00	TOTAL CHARGE FOR SERVICES	-140.00
AVERAGE COLLECTED BALANCE	24,657.69	NET CHARGE FOR SERVICES	-118.02
AVG POSITIVE COLLECTED BALANCE	24,657.69	***SERVICE CHARGE AMOUNT	118.02
LESS RESERVE REQUIRED @	.00		
AVERAGE AVAILABLE BALANCE	24,657.69		
LESS BALANCE REQUIRED	-156,940.00		
NET AVAILABLE BALANCE	-132,282.31		
TOTAL DEFICIT BALANCE	-132,282.31		

Service Charge Detail

Public Fund Analyzed Checking Account: 01892412957

Service Code	AFP Code	Service Description	Volume	Unit Price	Charge for Service
GENERAL ACCOUNT SERVICES					
0021	010000	MONTHLY SERVICE FEE	1	13.0000	13.00
0104	010307	PAPERLESS STATEMENT	1	.0000	.00
ACCOUNT ANALYSIS					
3004	300100	ANALYSIS STATEMENT VIA EDI	1	15.0000	15.00
BUSINESS SECURITY SUITE					
0183	251053	ACH POS PAY-ALERTS	585	.0000	.00
1490	251050	ACH POS PAY ONLY ACCT	1	20.0000	20.00
BUSINESS ONLINE-BOL					
3722	4000ZZ	BOL ACCOUNT MAINT-BASIC	1	.0000	.00
3742	400272	BOL PREVIOUS DAY ITEMS-BASIC	20	.0000	.00
INFORMATION REPORTING					
4005	40001Z	INFO RPT-TRANS - MONTHLY MAINT	1	15.0000	15.00
4006	400230	INFO RPT-TRANS - PREV DAY SUMM	220	.3500	77.00
TOTAL CHARGE FOR SERVICES					140.00

Board of Deposit

Huntington ODNR Division of Reclamation 2957 - December 2018

Bank Code	Service Code	Description	Unit Price	Total Units	Total Amount	List Price	Variance	Comments
1490	25 10 50	ACH POS PAY ONLY ACCT	20	1	\$ 20.00	\$ 20.00	\$ -	
183	25 10 53	ACH POS PAY-ALERTS	0	585	\$ -	\$ -	\$ -	
3004	30 01 00	ANALYSISSTATEMENT VIA EDI	15	1	\$ 15.00	\$ 15.00	\$ -	
3722	40 00 2Z	BOL ACCOUNT MAINT-BASIC	0	1	\$ -	\$ -	\$ -	
3742	40 02 72	BOL PREVIOUS DAY ITEMS-BASIC	0	20	\$ -	\$ -	\$ -	
4005	40 00 1Z	INFO RPT-TRANS - MONTHLY MAINT	15	1	\$ 15.00	\$ 15.00	\$ -	
4006	40 02 30	INFO RPT-TRANS - PREV DAY SUMM	0.35	220	\$ 77.00	\$ 77.00	\$ -	
21	01 00 00	MONTHLY SERVICE FEEUF	13	1	\$ 13.00	\$ 13.00	\$ -	
104	01 03 07	PAPERLESS STATEMENT	0	1	\$ -	\$ -	\$ -	
Total					\$ 140.00	\$ 140.00	\$ -	

Service Fee Total	\$ 140.00
Earnings Credit Allowance	\$ 21.98
Total	\$ 118.02



STATE BOARD OF DEPOSIT

STATE OF OHIO

Members:
Robert Sprague, Chairman
Treasurer of State
Dave Yost
Attorney General
Keith Faber
Auditor of State

CERTIFICATION OF THE EXPENSES OF THE STATE BOARD OF DEPOSIT

In accordance with Chapter 135.02 of the Ohio Revised Code, the undersigned, Chairman and Secretary of the State Board of Deposit of the State of Ohio, hereby certifies that the necessary expenses of the Board, which represent Huntington banking fees [ODNR Lake Katherine] for December 2018, are \$135.55.

Robert Cole Sprague

CHAIRMAN

Stacy Cumberland

SECRETARY

February 8, 2019

DATE

THE HUNTINGTON NATIONAL BANK
 PO BOX 1668 EA2W20
 COLUMBUS OH 43216-1668



TREAS-ST OH DEPT NATURAL RESOURCES
 ODNR LAKE KATHERINE
 30 E. BROAD STREET 10TH FLOOR
 COLUMBUS OH 43215-3414

Invoice

Reprint

Direct inquiries to your Relationship Manager
 or to Huntington Business Direct at
 1-800-480-2001

Account Analysis Statement

Group: 801892413134

Analysis Period From 12/01/2018
 To 12/31/2018
 Statement Date 01/09/2019

Account Summary Section

Group Account: 801892413134

Balance Analysis	
AVERAGE BALANCE	5,000.00
LESS AVERAGE FLOAT	.00
AVERAGE COLLECTED BALANCE	5,000.00
AVG POSITIVE COLLECTED BALANCE	5,000.00
LESS RESERVE REQUIRED	.00
AVERAGE AVAILABLE BALANCE	5,000.00
LESS BALANCE REQUIRED	-156,940.00
NET AVAILABLE BALANCE	-151,940.00
TOTAL DEFICIT BALANCE	-151,940.00

Service Charge Analysis	
EARNINGS CREDIT ALLOWANCE	4.45
TOTAL CHARGE FOR SERVICES	-140.00
NET CHARGE FOR SERVICES	-135.55
***SERVICE CHARGE AMOUNT	135.55

OR
 1/25/19

Service Charge Detail

Group Account: 801892413134

Service Code	AFP Code	Service Description	Volume	Unit Price	Charge for Service
GENERAL ACCOUNT SERVICES					
0021	010000	MONTHLY SERVICE FEE	1	13.0000	13.00
0104	010307	PAPERLESS STATEMENT	1	.0000	.00
ACCOUNT ANALYSIS					
3004	300100	ANALYSIS STATEMENT VIA EDI	1	15.0000	15.00
BUSINESS SECURITY SUITE					
0183	251053	ACH POS PAY-ALERTS	585	.0000	.00
1490	251050	ACH POS PAY ONLY ACCT	1	20.0000	20.00
BUSINESS ONLINE-BOL					
3722	4000ZZ	BOL ACCOUNT MAINT-BASIC	1	.0000	.00
3742	400272	BOL PREVIOUS DAY ITEMS-BASIC	20	.0000	.00
INFORMATION REPORTING					
4005	40001Z	INFO RPT-TRANS - MONTHLY MAINT	1	15.0000	15.00
4006	400230	INFO RPT-TRANS - PREV DAY SUMM	220	.3500	77.00
TOTAL CHARGE FOR SERVICES					140.00

Please review your statement within 30 days and notify the bank of any questions. We will research your inquiry and notify you of any findings. After 30 days, the items on the statement will be deemed to be correct.

THE HUNTINGTON NATIONAL BANK
 PO BOX 1668 EA2W20
 COLUMBUS OH 43216-1668



TREAS-ST OH DEPT NATURAL RESOURCES
 ODNR LAKE KATHERINE
 30 E. BROAD STREET 10TH FLOOR
 COLUMBUS OH 43215-3414

Invoice Reprint
 Direct inquiries to your Relationship Manager
 or to Huntington Business Direct at
 1-800-480-2001

Account Analysis Statement

Group: 801892413134

Account: 01892413134

Analysis Period From 12/01/2018
 To 12/31/2018
 Statement Date 01/09/2019
 Invoice Due Date* 01/30/2019

* Please remit the Total Amount Due of 414.06 before this date

Invoice Details

Group: 801892413134

Description		
Previous Balance		410.36
Payments Received		
12/17/2018 Invoice # 8900000000049831	131.41	
12/17/2018 Invoice # 8900000000060268	.43	
Grand Total Payments Received		131.84-
Account Summary of Charges		
Previous Invoice Balance		278.51
Total Past Due		278.51
Current Service Charges		135.56
Total Amount Due		414.06

Statement Period 12/01/2018 to 12/31/2018 Page 3 of 4

(please fold and tear here to remit this portion with your payment)

TREAS-ST OH DEPT NATURAL RESOURCES
 ODNR LAKE KATHERINE
 30 E. BROAD STREET 10TH FLOOR
 COLUMBUS OH 43216-3414

Group #: 801892413134
 Invoice Date: 12/31/2018
 Invoice #: 008900000000051101

THE HUNTINGTON NATIONAL BANK
 DEPT. L-2043
 COLUMBUS OHIO 43260

Payment Due on 01/30/2019
 Amount Due 414.06

Amount Enclosed:

\$

Checks and money orders should be made payable to Huntington National Bank

THE HUNTINGTON NATIONAL BANK
 PO BOX 1668 EA2W20
 COLUMBUS OH 43216-1668



TREAS-ST OH DEPT NATURAL RESOURCES
 ODNR LAKE KATHERINE MGMT FUND
 30 E. BROAD STREET 10TH FLOOR
 COLUMBUS OH 43215-3414

Invoice Reprint
 Direct inquiries to your Relationship Manager
 or to Huntington Business Direct at
 1-800-480-2001

Account Analysis Statement

Group: 801892413134

Account: 01892413134

Analysis Period From 12/01/2018
 To 12/31/2018
 Statement Date 01/09/2019

Account Summary Section

Public Fund Analyzed Checking Account: 01892413134

Balance Analysis		Service Charge Analysis	
AVERAGE BALANCE	5,000.00	EARNINGS CREDIT ALLOWANCE 1.050 %	4.45
LESS AVERAGE FLOAT	.00	TOTAL CHARGE FOR SERVICES	-140.00
AVERAGE COLLECTED BALANCE	5,000.00	NET CHARGE FOR SERVICES	-135.55
AVG POSITIVE COLLECTED BALANCE	5,000.00	***SERVICE CHARGE AMOUNT	135.55
LESS RESERVE REQUIRED @	.00		
AVERAGE AVAILABLE BALANCE	5,000.00		
LESS BALANCE REQUIRED	-156,940.00		
NET AVAILABLE BALANCE	-151,940.00		
TOTAL DEFICIT BALANCE	-151,940.00		

Service Charge Detail

Public Fund Analyzed Checking Account: 01892413134

Service Code	AFP Code	Service Description	Volume	Unit Price	Charge for Service
GENERAL ACCOUNT SERVICES					
0021	010000	MONTHLY SERVICE FEE	1	13.0000	13.00
0104	010307	PAPERLESS STATEMENT	1	.0000	.00
ACCOUNT ANALYSIS					
3004	300100	ANALYSIS STATEMENT VIA EDI	1	15.0000	15.00
BUSINESS SECURITY SUITE					
0183	251053	ACH POS PAY-ALERTS	585	.0000	.00
1490	251050	ACH POS PAY ONLY ACCT	1	20.0000	20.00
BUSINESS ONLINE-BOL					
3722	4000ZZ	BOL ACCOUNT MAINT-BASIC	1	.0000	.00
3742	400272	BOL PREVIOUS DAY ITEMS-BASIC	20	.0000	.00
INFORMATION REPORTING					
4005	40001Z	INFO RPT-TRANS - MONTHLY MAINT	1	15.0000	15.00
4006	400230	INFO RPT-TRANS - PREV DAY SUMM	220	.3500	77.00
TOTAL CHARGE FOR SERVICES					140.00

Board of Deposit
Huntington ODNR Lake Katherine Management Fund 3134 - December 2018

Bank Code	Service Code	Description	Unit Price	Total Units	Total Amount	List Price	Variance	Comments
1490	25 10 50	ACH POS PAY ONLY ACCT	20	1	\$ 20.00	\$ 20.00	\$ -	
183	25 10 53	ACH POS PAY-ALERTS	0	585	\$ -	\$ -	\$ -	
3004	30 01 00	ANALYSIS STATEMENT VIA EDI	15	1	\$ 15.00	\$ 15.00	\$ -	
3722	40 00 ZZ	BOL ACCOUNT MAINT-BASIC	0	1	\$ -	\$ -	\$ -	
3742	40 02 72	BOL PREVIOUS DAY ITEMS-BASIC	0	20	\$ -	\$ -	\$ -	
4005	40 00 1Z	INFO RPT-TRANS - MONTHLY MAINT	15	1	\$ 15.00	\$ 15.00	\$ -	
4006	40 02 30	INFO RPT-TRANS - PREV DAY SUMM	0.35	220	\$ 77.00	\$ 77.00	\$ -	
21	01 00 00	MONTHLY SERVICE FEEÛF	13	1	\$ 13.00	\$ 13.00	\$ -	
104	01 03 07	PAPERLESS STATEMENT	0	1	\$ -	\$ -	\$ -	
Total					\$ 140.00	\$ 140.00	\$ -	

Service Fee Total	\$ 140.00
Earnings Credit Allowance	\$ 4.45
Total	\$ 135.55



STATE BOARD OF DEPOSIT STATE OF OHIO

Members:

Robert Sprague, Chairman
Treasurer of State

Dave Yost
Attorney General

Keith Faber
Auditor of State

CERTIFICATION OF THE EXPENSES OF THE STATE BOARD OF DEPOSIT

In accordance with Chapter 135.02 of the Ohio Revised Code, the undersigned, Chairman and Secretary of the State Board of Deposit of the State of Ohio, hereby certifies that the necessary expenses of the Board, which represent Huntington banking fees [ODNR-Wildlife Habitat Fund] for December 2018, are \$140.00.

Robert Cole Sprague

CHAIRMAN

Stacy Cumberland

SECRETARY

February 8, 2019

DATE

THE HUNTINGTON NATIONAL BANK
 PO BOX 1558 EA2W20
 COLUMBUS OH 43216-1558



TREAS-ST OH DEPT NATURAL RESOURCES
 WILDLIFE HABITAT
 30 E. BROAD STREET 10TH FLOOR
 COLUMBUS OH 43215-3414

Invoice

Reprint

Direct inquiries to your Relationship Manager
 or to Huntington Business Direct at
 1-800-480-2001

Account Analysis Statement

Group: 801892413105

Analysis Period From 12/01/2018
 To 12/31/2018
 Statement Date 01/09/2019

Account Summary Section

Group Account: 801892413105

Balance Analysis		Service Charge Analysis	
AVERAGE BALANCE	.00	EARNINGS CREDIT ALLOWANCE	.00
LESS AVERAGE FLOAT	.00	TOTAL CHARGE FOR SERVICES	-140.00
AVERAGE COLLECTED BALANCE	.00	NET CHARGE FOR SERVICES	-140.00
AVG POSITIVE COLLECTED BALANCE	.00	***SERVICE CHARGE AMOUNT	140.00
LESS RESERVE REQUIRED	.00		
AVERAGE AVAILABLE BALANCE	.00		
LESS BALANCE REQUIRED	-156,940.00		
NET AVAILABLE BALANCE	-156,940.00		
TOTAL DEFICIT BALANCE	-156,940.00		

JR
 1/25/19

Service Charge Detail

Group Account: 801892413105

Service Code	AFP Code	Service Description	Volume	Unit Price	Charge for Service
GENERAL ACCOUNT SERVICES					
0021	010000	MONTHLY SERVICE FEE	1	13.0000	13.00
0104	010307	PAPERLESS STATEMENT	1	.0000	.00
ACCOUNT ANALYSIS					
3004	300100	ANALYSIS STATEMENT VIA EDI	1	15.0000	15.00
BUSINESS SECURITY SUITE					
0183	251053	ACH POS PAY-ALERTS	585	.0000	.00
1490	251050	ACH POS PAY ONLY ACCT	1	20.0000	20.00
BUSINESS ONLINE-BOL					
3722	4000ZZ	BOL ACCOUNT MAINT-BASIC	1	.0000	.00
3742	400272	BOL PREVIOUS DAY ITEMS-BASIC	20	.0000	.00
INFORMATION REPORTING					
4005	40001Z	INFO RPT-TRANS - MONTHLY MAINT	1	15.0000	15.00
4006	400230	INFO RPT-TRANS - PREV DAY SUMM	220	.3500	77.00
TOTAL CHARGE FOR SERVICES					140.00

Please review your statement within 30 days and notify the bank of any questions. We will research your inquiry and notify you of any findings. After 30 days, the items on the statement will be deemed to be correct.

THE HUNTINGTON NATIONAL BANK
PO BOX 1568 EA2W20
COLUMBUS OH 43216-1568



TREAS-ST OH DEPT NATURAL RESOURCES
WILDLIFE HABITAT
30 E. BROAD STREET 10TH FLOOR
COLUMBUS OH 43215-3414

Invoice

Reprint

Direct inquiries to your Relationship Manager
or to Huntington Business Direct at
1-800-480-2001

Account Analysis Statement

Group: 801892413105

Account: 01892413105

Analysis Period From 12/01/2018
To 12/31/2018

Statement Date 01/09/2019

Invoice Due Date* 01/30/2019

* Please remit the Total Amount Due of 441.17 before this date

Invoice Details

Group: 801892413105

Description

Previous Balance	437.32
Payments Received 12/17/2018 Invoice # 8900000000049830	136.15
Grand Total Payments Received	136.15-
Account Summary of Charges	
Previous Invoice Balance	301.17
Total Past Due	301.17
Current Service Charges	140.00
Total Amount Due	441.17

Statement Period 12/01/2018 to 12/31/2018 Page 3 of 4

(please fold and tear here to remit this portion with your payment)

TREAS-ST OH DEPT NATURAL RESOURCES
WILDLIFE HABITAT
30 E. BROAD STREET 10TH FLOOR
COLUMBUS OH 43215-3414

Group #:801892413105

Invoice Date: 12/31/2018

Invoice #: 008900000000051100

THE HUNTINGTON NATIONAL BANK
DEPT. L-2043
COLUMBUS OHIO 43260

Payment Due on 01/30/2019

Amount Due 441.17

Amount Enclosed:

\$

Checks and money orders should be made payable to Huntington National Bank

THE HUNTINGTON NATIONAL BANK
 PO BOX 1558 EA2W20
 COLUMBUS OH 43216-1558



TREAS-ST OH DEPT NATURAL RESOURCES
 ODNR WILDLIFE HABITAT FUND
 30 E. BROAD STREET 10TH FLOOR
 COLUMBUS OH 43215-3414

Invoice

Reprint

Direct inquiries to your Relationship Manager
 or to Huntington Business Direct at
 1-800-480-2001

Account Analysis Statement

Group: 801892413105

Account: 01892413105

Analysis Period From 12/01/2018
 To 12/31/2018

Statement Date 01/09/2019

Account Summary Section

Public Fund Analyzed Checking Account: 01892413105

Balance Analysis		Service Charge Analysis	
AVERAGE BALANCE	.00	EARNINGS CREDIT ALLOWANCE 1.050 %	.00
LESS AVERAGE FLOAT	.00	TOTAL CHARGE FOR SERVICES	-140.00
AVERAGE COLLECTED BALANCE	.00	NET CHARGE FOR SERVICES	-140.00
AVG POSITIVE COLLECTED BALANCE	.00	***SERVICE CHARGE AMOUNT	140.00
LESS RESERVE REQUIRED @	.00		
AVERAGE AVAILABLE BALANCE	.00		
LESS BALANCE REQUIRED	-156,940.00		
NET AVAILABLE BALANCE	-156,940.00		
TOTAL DEFICIT BALANCE	-156,940.00		

Service Charge Detail

Public Fund Analyzed Checking Account: 01892413105

Service Code	AFP Code	Service Description	Volume	Unit Price	Charge for Service
GENERAL ACCOUNT SERVICES					
0021	010000	MONTHLY SERVICE FEE	1	13.0000	13.00
0104	010307	PAPERLESS STATEMENT	1	.0000	.00
ACCOUNT ANALYSIS					
3004	300100	ANALYSIS STATEMENT VIA EDI	1	15.0000	15.00
BUSINESS SECURITY SUITE					
0183	251053	ACH POS PAY-ALERTS	585	.0000	.00
1490	251050	ACH POS PAY ONLY ACCT	1	20.0000	20.00
BUSINESS ONLINE-BOL					
3722	4000ZZ	BOL ACCOUNT MAINT-BASIC	1	.0000	.00
3742	400272	BOL PREVIOUS DAY ITEMS-BASIC	20	.0000	.00
INFORMATION REPORTING					
4005	40001Z	INFO RPT-TRANS - MONTHLY MAINT	1	15.0000	15.00
4006	400230	INFO RPT-TRANS - PREV DAY SUMM	220	.3500	77.00
TOTAL CHARGE FOR SERVICES					140.00

Board of Deposit
Huntington ODNR Wildlife Habitat Fund 3105 - December 2018

Bank Code	Service Code	Description	Unit Price	Total Units	Total Amount	List Price	Variance	Comments
1490	25 10 50	ACH POS PAY ONLY ACCT	20	1	\$ 20.00	\$ 20.00	\$ -	
183	25 10 53	ACH POS PAY-ALERTS	0	585	\$ -	\$ -	\$ -	
3004	30 01 00	ANALYSIS STATEMENT VIA EDI	15	1	\$ 15.00	\$ 15.00	\$ -	
3722	40 00 ZZ	BOL ACCOUNT MAINT-BASIC	0	1	\$ -	\$ -	\$ -	
3742	40 02 72	BOL PREVIOUS DAY ITEMS-BASIC	0	20	\$ -	\$ -	\$ -	
4005	40 00 12	INFO RPT-TRANS - MONTHLY MAINT	15	1	\$ 15.00	\$ 15.00	\$ -	
4006	40 02 30	INFO RPT-TRANS - PREV DAY SUMM	0.35	220	\$ 77.00	\$ 77.00	\$ -	
21	01 00 00	MONTHLY SERVICE FEEUF	13	1	\$ 13.00	\$ 13.00	\$ -	
104	01 03 07	PAPERLESS STATEMENT	0	1	\$ -	\$ -	\$ -	
Total					\$ 140.00	\$ 140.00	\$ -	

Service Fee Total	\$ 140.00
Earnings Credit Allowance	\$ -
Total	\$ 140.00



STATE BOARD OF DEPOSIT

STATE OF OHIO

Members:
Robert Sprague, Chairman
Treasurer of State
Dave Yost
Attorney General
Keith Faber
Auditor of State

CERTIFICATION OF THE EXPENSES OF THE STATE BOARD OF DEPOSIT

In accordance with Chapter 135.02 of the Ohio Revised Code, the undersigned, Chairman and Secretary of the State Board of Deposit of the State of Ohio, hereby certifies that the necessary expenses of the Board, which represent Huntington banking fees [Torrens Law Assurance Fund] for December 2018, are \$261.55.

Robert Cole Sprague

CHAIRMAN

Stacy Cumberland

SECRETARY

February 8, 2019

DATE

THE HUNTINGTON NATIONAL BANK
 PO BOX 1658 EA2W20
 COLUMBUS OH 43216-1658



TREAS-ST OH TORRENS LAW ASSSUR FUND
 TLAF
 30 E BROAD ST FL 10
 COLUMBUS OH 43215-3414

Invoice

Reprint

Direct inquiries to your Relationship Manager
 or to Huntington Business Direct at
 1-800-480-2001

Account Analysis Statement

Group: 801891935590

Analysis Period From 12/01/2018
 To 12/31/2018
 Statement Date 01/09/2019

Account Summary Section

Group Account: 801891935590

Balance Analysis	
AVERAGE BALANCE	26,298.98
LESS AVERAGE FLOAT	.00
AVERAGE COLLECTED BALANCE	26,298.98
AVG POSITIVE COLLECTED BALANCE	26,298.98
LESS RESERVE REQUIRED	.00
AVERAGE AVAILABLE BALANCE	26,298.98
LESS BALANCE REQUIRED	-319,486.00
NET AVAILABLE BALANCE	-293,186.02
TOTAL DEFICIT BALANCE	-293,186.02

Service Charge Analysis	
EARNINGS CREDIT ALLOWANCE	23.45
TOTAL CHARGE FOR SERVICES	-286.00
NET CHARGE FOR SERVICES	-261.55
***SERVICE CHARGE AMOUNT	261.55

OR
 1/25/19

Service Charge Detail

Group Account: 801891935590

Service Code	AFP Code	Service Description	Volume	Unit Price	Charge for Service
GENERAL ACCOUNT SERVICES					
0021	010000	MONTHLY SERVICE FEE	1	13.0000	13.00
0104	010307	PAPERLESS STATEMENT	1	.0000	.00
ACCOUNT ANALYSIS					
3004	300100	ANALYSIS STATEMENT VIA EDI	1	16.0000	16.00
BUSINESS SECURITY SUITE					
0183	251053	ACH POS PAY-ALERTS	586	.0000	.00
1490	251050	ACH POS PAY ONLY ACCT	1	20.0000	20.00
PAYMENT CENTER					
2201	320000	PYMNT CNTR-PREMIER ACH & WIRES	1	70.0000	70.00
2202	320001	PYMNT CNTR-PREMIER ACCOUNTS	10	5.0000	50.00
		**NO CHARGE			
2202	320001	PYMNT CNTR-PREMIER ACCOUNTS	15	5.0000	75.00
BUSINESS ONLINE-BOL					
3702	4000ZZ	BOL COMPANY MAINT-BASIC	1	.0000	.00
3722	4000ZZ	BOL ACCOUNT MAINT-BASIC	1	.0000	.00
3742	400272	BOL PREVIOUS DAY ITEMS-BASIC	20	.0000	.00

Service Charge Detail**Group Account: 801891935590**

Service Code	AFP Code	Service Description	Volume	Unit Price	Charge for Service
INFORMATION REPORTING					
4005	40001Z	INFO RPT-TRANS - MONTHLY MAINT	1	15.0000	15.00
4006	400230	INFO RPT-TRANS - PREV DAY SUMM	220	.3600	77.00
TOTAL CHARGE FOR SERVICES					285.00
TOTAL NO CHARGE					50.00

Please review your statement within 30 days and notify the bank of any questions. We will research your inquiry and notify you of any findings. After 30 days, the items on the statement will be deemed to be correct.

THE HUNTINGTON NATIONAL BANK
PO BOX 1568 EA2W20
COLUMBUS OH 43216-1568



TREAS-ST OH TORRENS LAW ASSSUR FUND
TLAF
30 E BROAD ST FL 10
COLUMBUS OH 43215-3414

Invoice

Reprint

Direct inquiries to your Relationship Manager
or to Huntington Business Direct at
1-800-480-2001

Account Analysis Statement

Group: 801891935590

Account: 01891935590

Analysis Period From 12/01/2018
To 12/31/2018

Statement Date 01/09/2019

Invoice Due Date* 01/30/2019

* Please remit the Total Amount Due of 795.88 before this date

Invoice Details

Group: 801891935590

Description

Previous Balance		792.79
Payments Received		
12/17/2018 Invoice # 8900000000049757	256.23	
12/17/2018 Invoice # 8900000000060182	2.23	
Grand Total Payments Received		258.46-
Account Summary of Charges		
Previous Invoice Balance		534.33
Total Past Due		534.33
Current Service Charges		261.55
Total Amount Due		795.88

Statement Period 12/01/2018 to 12/31/2018 Page 3 of 5

(please fold and tear here to remit this portion with your payment)

TREAS-ST OH TORRENS LAW ASSSUR FUND
TLAF
30 E BROAD ST FL 10
COLUMBUS OH 43215-3414

Group #:801891935590
Invoice Date: 12/31/2018
Invoice #: 008900000000051026

THE HUNTINGTON NATIONAL BANK
DEPT. L-2043
COLUMBUS OHIO 43260

Payment Due on 01/30/2019

Amount Due 795.88

Amount Enclosed:

\$

Checks and money orders should be made payable to Huntington National Bank

THE HUNTINGTON NATIONAL BANK
 PO BOX 1668 EA2W20
 COLUMBUS OH 43216-1668



TREAS-ST OH TORRENS LAW ASSSUR FUND
 TORRENS LAW ASSURANCE FUND T
 30 E BROAD ST FL 10
 COLUMBUS OH 43215-3414

Invoice Reprint
 Direct inquiries to your Relationship Manager
 or to Huntington Business Direct at
 1-800-480-2001

Account Analysis Statement

Group: 801891935590

Account: 01891935590

Analysis Period From 12/01/2018
 To 12/31/2018
 Statement Date 01/09/2019

Account Summary Section

Public Fund Analyzed Checking Account: 01891935590

Balance Analysis		Service Charge Analysis	
AVERAGE BALANCE	26,298.98	EARNINGS CREDIT ALLOWANCE 1.050 %	23.45
LESS AVERAGE FLOAT	.00	TOTAL CHARGE FOR SERVICES	-285.00
AVERAGE COLLECTED BALANCE	26,298.98	NET CHARGE FOR SERVICES	-261.55
AVG POSITIVE COLLECTED BALANCE	26,298.98	***SERVICE CHARGE AMOUNT	261.55
LESS RESERVE REQUIRED @	.00		
AVERAGE AVAILABLE BALANCE	26,298.98		
LESS BALANCE REQUIRED	-319,485.00		
NET AVAILABLE BALANCE	-293,186.02		
TOTAL DEFICIT BALANCE	-293,186.02		

Service Charge Detail

Public Fund Analyzed Checking Account: 01891935590

Service Code	AFP Code	Service Description	Volume	Unit Price	Charge for Service
GENERAL ACCOUNT SERVICES					
0021	010000	MONTHLY SERVICE FEE	1	13.0000	13.00
0104	010307	PAPERLESS STATEMENT	1	.0000	.00
ACCOUNT ANALYSIS					
3004	300100	ANALYSIS STATEMENT VIA EDI	1	15.0000	15.00
BUSINESS SECURITY SUITE					
0183	251053	ACH POS PAY-ALERTS	585	.0000	.00
1490	251050	ACH POS PAY ONLY ACCT	1	20.0000	20.00
PAYMENT CENTER					
2201	320000	PYMNT CNTR-PREMIER ACH & WIRES	1	70.0000	70.00
2202	320001	PYMNT CNTR-PREMIER ACCOUNTS	10	5.0000	50.00
		**NO CHARGE			
2202	320001	PYMNT CNTR-PREMIER ACCOUNTS	15	5.0000	75.00
BUSINESS ONLINE-BOL					
3702	4000ZZ	BOL COMPANY MAINT-BASIC	1	.0000	.00
3722	4000ZZ	BOL ACCOUNT MAINT-BASIC	1	.0000	.00
3742	400272	BOL PREVIOUS DAY ITEMS-BASIC	20	.0000	.00

Service Charge Detail

Public Fund Analyzed Checking Account: 01891935590

Service Code	AFP Code	Service Description	Volume	Unit Price	Charge for Service
INFORMATION REPORTING					
4005	40001Z	INFO RPT-TRANS - MONTHLY MAINT	1	15.0000	15.00
4006	400230	INFO RPT-TRANS - PREV DAY SUMM	220	.3500	77.00
TOTAL CHARGE FOR SERVICES					286.00
TOTAL NO CHARGE					50.00

Board of Deposit
Huntington Torrens Law Assurance Fund 5590 - December 2018

Bank Code	Service Code	Description	Unit Price	Total Units	Total Amount	List Price	Variance	Comments
1490	25 10 50	ACH POS PAY ONLY ACCT	20	1	\$ 20.00	\$ 20.00	\$ -	
183	25 10 53	ACH POS PAY-ALERTS	0	585	\$ -	\$ -	\$ -	
3004	30 01 00	ANALYSIS STATEMENT VIA EDI	15	1	\$ 15.00	\$ 15.00	\$ -	
3722	40 00 ZZ	BOL ACCOUNT MAINT-BASIC	0	1	\$ -	\$ -	\$ -	
3702	40 00 ZZ	BOL COMPANY MAINT-BASIC	0	1	\$ -	\$ -	\$ -	
3742	40 02 72	BOL PREVIOUS DAY ITEMS-BASIC	0	20	\$ -	\$ -	\$ -	
4005	40 00 12	INFO RPT-TRANS - MONTHLY MAINT	15	1	\$ 15.00	\$ 15.00	\$ -	
4006	40 02 30	INFO RPT-TRANS - PREV DAY SUMM	0.35	220	\$ 77.00	\$ 77.00	\$ -	
21	01 00 00	MONTHLY SERVICE FEEUF	13	1	\$ 13.00	\$ 13.00	\$ -	
104	01 03 07	PAPERLESS STATEMENT	0	1	\$ -	\$ -	\$ -	
2202	32 00 01	PYMNT CNTR-PREMIER ACCOUNTS	5	15	\$ 75.00	\$ 75.00	\$ -	
2202	32 00 01	PYMNT CNTR-PREMIER ACCOUNTS - NO CH	5	10	\$ 50.00	\$ -	\$ -	No charge
2201	32 00 00	PYMNTCNTR-PREMIER ACH & WIRES	70	1	\$ 70.00	\$ 70.00	\$ -	
Total					\$ 335.00	\$ 285.00	\$ -	

Service Fee Total	\$ 285.00
Earnings Credit Allowance	\$ 23.45
Total	\$ 261.55



STATE BOARD OF DEPOSIT

STATE OF OHIO

Members:

Robert Sprague, Chairman
Treasurer of State

Dave Yost
Attorney General

Keith Faber
Auditor of State

CERTIFICATION OF THE EXPENSES OF THE STATE BOARD OF DEPOSIT

In accordance with Chapter 135.02 of the Ohio Revised Code, the undersigned, Chairman and Secretary of the State Board of Deposit of the State of Ohio, hereby certifies that the necessary expenses of the Board, which represent KeyBank banking fees [AOS Agency Collateral] for the month of December 2018, are \$13.00.

Robert Cole Sprague

CHAIRMAN

Stacey Cumberlander

SECRETARY

February 8, 2019

DATE

TREASURER OF STATE
 AOS AGENCY COLLATERAL
 88 EAST BROAD STREET
 LARA DELEONE OH-18-07-0205
 COLUMBUS OH 43215-3506

DATE: JANUARY 11, 2019
 OFFICER: OFFICER LXM3B
 ANALYSIS PERIOD: DECEMBER 2018
 KEY ACCOUNT: 359681427431

ACCOUNT ANALYSIS INVOICE

INVOICE NUMBER	INVOICE DATE	PAYMENT PAYMENT	DATE	ADJUSTMENTS	OUTSTANDING INVOICE BALANCE
18090001509	10-11-18	13.00	12-19-18		.00
18100001230	11-11-18				13.00
18110001220	12-11-18				13.00
18120002790	01-11-19				13.00
TOTAL OUTSTANDING INVOICE BALANCES:					52.00
LESS TOTAL PAYMENTS RECEIVED:					13.00
TOTAL AMOUNT DUE:					39.00

** PLEASE MAKE TIMELY PAYMENTS ON YOUR ANALYSIS INVOICE. INVOICES WHICH ARE 90 **
 ** DAYS PAST DUE WILL BE DIRECT DEBITED FROM YOUR DDA ACCOUNT AND WILL INCUR A \$30 **
 ** PAST DUE SURCHARGE. PLEASE CONTACT OUR COMMERCIAL CLIENT SERVICE CENTER, YOUR **
 ** CASH MANAGEMENT SALES OFFICER, OR RELATIONSHIP MANAGER WITH ANY QUESTIONS. **

PAST DUE AGING:

31 DAYS AND OVER \$26.00

TREASURER OF STATE	TOTAL AMOUNT DUE	39.00
ACCOUNT NUMBER: 359681427431	AMOUNT ENCLOSED:	_____
MAIL PAYMENT TO:	APPLY TO THE FOLLOWING INVOICES:	
KEYBANK NATIONAL ASSOCIATION	INVOICE NBR	INVOICE AMT
ATTN: DEPARTMENT AA 0101	18100001230	13.00
P O BOX 901626	18110001220	13.00
CLEVELAND, OHIO 44190-1626	18120002790	13.00

RETURN THIS PORTION WITH YOUR REMITTANCE



KeyBank National Association
 Account Analysis, OH-01-51-2005
 4910 Tiedeman Road
 Brooklyn, OH 44144-2338

Account Analysis Statement December 2018

*TREASURER OF STATE
 30 E BROAD ST 9TH FL
 COLUMBUS OH 43215-3414

Relationship Overview : *TREASURER OF STATE

Balance Summary	
Average Ledger Balance	\$0.00
LESS: Average Float	(\$0.00)
Average Collected Balance	\$0.00
Average Positive Collected Balance	\$0.00
Balance Available to Support Services	\$0.00
LESS: Balance Needed To Support Services	(\$5,462.08)
Balance Deficiency/Surplus for Eligible Services	(\$5,462.08)

Billing Information	
Settlement Cycle	Monthly
Payment Method	Invoice
Billing Account	XXXXXXXX7431
Days in the Month	31

Service Charge Summary	
Service Charges Eligible for Earnings Credit	\$13.00
LESS: Earnings Credit Allowance	\$0.00
Service Charges Due	\$13.00

JP
1/25/19

An invoice will be distributed on approximately the 15th business day of the month.

Trend Analysis [^]								
Months	Average Ledger Balance	Average Collected Balance	Balance Available to Support Services	Balance Needed to Support Services	Service Charges Eligible for Earnings Credit	Earnings Credit Allowance	Direct Service Charges	Service Charges Due
DEC	\$0	\$0	\$0	\$5,462	\$13	\$0	\$0	\$13
NOV	\$0	\$0	\$0	\$5,882	\$13	\$0	\$0	\$13
OCT	\$0	\$0	\$0	\$6,103	\$13	\$0	\$0	\$13
SEP	\$0	\$0	\$0	\$6,667	\$13	\$0	\$0	\$13
AUG	\$0	\$0	\$0	\$6,599	\$13	\$0	\$0	\$13
JUL	\$0	\$0	\$0	\$6,566	\$13	\$0	\$0	\$13
JUN	\$0	\$0	\$0	\$5,729	\$11	\$0	\$0	\$11
MAY	\$0	\$0	\$0	\$5,584	\$11	\$0	\$0	\$11
APR	\$0	\$0	\$0	\$5,670	\$11	\$0	\$0	\$11
MAR	\$0	\$0	\$0	\$5,670	\$11	\$0	\$0	\$11
FEB	\$0	\$0	\$0	\$7,333	\$11	\$0	\$0	\$11
JAN	\$0	\$0	\$0	\$7,383	\$11	\$0	\$0	\$11
YTD	\$0	\$0	\$0	\$6,221	\$144	\$0	\$0	\$144

[^] All numbers in this section are rounded to the nearest whole dollar

Please contact your Account Officer or the Commercial Business Banking Center at 1-800-821-2829 with questions.

Account Officer: Lara Deleone
 Center: 3080035 SO



Account Analysis Statement

December 2018

Relationship Summary

Relationship Overview : *TREASURER OF STATE
Accounts in Relationship: 1

Accounts Analyzed ^

Account Number	Account Name	Earnings Credit Rate	Balance Needed to Support Services	Balance Available to Support Services	Service Charges Eligible for Earnings Credit	Direct Service Charges	Earnings Credit Allowance
359681427431	*TREASURER OF STATE	2.81%	\$5,462	\$0	\$13	\$0	\$0
Total			\$5,462	\$0	\$13	\$0	\$0

^ All numbers in this section are rounded to the nearest whole dollar

* Notes the billing account for the relationship

Service Activity Summary

Service Codes	Services	Total Service Charges
AFP01	General Account Services	\$10.00
AFP25	General ACH Services	\$3.00
Total		\$13.00

Service Activity Details

Service Codes	Services	Quantity	Unit Price	Total Service Charges	Balance Needed To Support Services
01	General Account Services				
01 00 00	Maintenance	1	\$10.00	\$10.00	\$4,201.60
01 04 40	Electronic Analysis Statement	1	\$0.00	\$0.00	\$0.00
AFP01 TOTAL				\$10.00	\$4,201.60
25	General ACH Services				
25 10 52	EPA Admin Fee/Month	1	\$3.00	\$3.00	\$1,260.48
AFP25 TOTAL				\$3.00	\$1,260.48
Total				\$13.00	\$5,462.08



Account Analysis Statement December 2018

Account Detail

Account Name: **TREASURER OF STATE , AOS AGENCY COLLATERAL**
Account Number: **359681427431**

AA

Balance Summary	
Average Ledger Balance	\$0.00
LESS: Average Float	(\$0.00)
Average Collected Balance	\$0.00
Average Positive Collected Balance	\$0.00
Balance Available to Support Services	\$0.00

Rate and Other Information	
Earnings Credit Rate	2.81 %
Service Charge Multiplier	\$420.16
Uncollected Funds Rate	0.00%

Service Charge Summary	
Service Charges Eligible for Earnings Credit	\$13.00
Earnings Credit Allowance	(\$0.00)
Service Charges Due	\$13.00

Service Activity Details					
<i>Service Codes</i>	<i>Services</i>	<i>Quantity</i>	<i>Unit Price</i>	<i>Total Service Charges</i>	<i>Balance Needed To Support Services</i>
01	General Account Services				
01 00 00	Maintenance	1	\$10.00	\$10.00	\$4,201.60
01 04 40	Electronic Analysis Statement	1	\$0.00	\$0.00	\$0.00
	AFP01 TOTAL			\$10.00	\$4,201.60
25	General ACH Services				
25 10 52	EPA Admin Fee/Month	1	\$3.00	\$3.00	\$1,260.48
	AFP25 TOTAL			\$3.00	\$1,260.48
	Total			\$13.00	\$5,462.08

Board of Deposit

KeyBank AOS Agency Collateral 7431 - December 2018

Bank Code	Service Code	Description	Unit Price	Total Units	Total Amount	List Price	Variance	Comments	
RPMDAYPL	00 00 06	# POSITIVE DAYS		0	31 \$	-	\$ -	\$ -	
DDAANELC	01 04 40	ELECTRONIC ANALYSIS STATEMENT		0	1 \$	-	\$ -	\$ -	
DDAEPAAD	25 10 52	EPA ADMIN FEE/MONTH		3	1 \$	3.00	\$ 3.00	\$ -	
DDAMAIN	01 00 00	MAINTENANCE		10	1 \$	10.00	\$ 10.00	\$ -	
Total						\$	13.00	\$ 13.00	\$ -

Service Fee Total	\$	13.00
Earnings Credit Allowance	\$	-
Total	\$	13.00



STATE BOARD OF DEPOSIT

STATE OF OHIO

Members:

Robert Sprague, Chairman
Treasurer of State

Dave Yost
Attorney General

Keith Faber
Auditor of State

CERTIFICATION OF THE EXPENSES OF THE STATE BOARD OF DEPOSIT

In accordance with Chapter 135.02 of the Ohio Revised Code, the undersigned, Chairman and Secretary of the State Board of Deposit of the State of Ohio, hereby certifies that the necessary expenses of the Board, which represent KeyBank banking fees for the month of December 2018, are \$27,138.09.

Robert Cole Sprague

CHAIRMAN

Stacey Cumberland

SECRETARY

February 8, 2019

DATE

TREASURER OF STATE
 REGULAR ACCOUNT
 30 E BROAD ST 10TH FL
 COLUMBUS OH 43215-3414

DATE: JANUARY 11, 2019
 OFFICER: OFFICER LXM3B
 ANALYSIS PERIOD: DECEMBER 2018
 KEY ACCOUNT: 14511001050

ACCOUNT ANALYSIS INVOICE

INVOICE NUMBER	INVOICE DATE	PAYMENT PAYMENT	PAYMENT DATE	ADJUSTMENTS	OUTSTANDING INVOICE BALANCE
18090001180	10-11-18	34,775.75	12-19-18		.00
18100000909	11-11-18				38,291.83
18110000891	12-11-18				37,234.81
18120002460	01-11-19				27,138.09
TOTAL OUTSTANDING INVOICE BALANCES:					137,440.48
LESS TOTAL PAYMENTS RECEIVED:					34,775.75
TOTAL AMOUNT DUE:					102,664.73

** PLEASE MAKE TIMELY PAYMENTS ON YOUR ANALYSIS INVOICE. INVOICES WHICH ARE 90 **
 ** DAYS PAST DUE WILL BE DIRECT DEBITED FROM YOUR DDA ACCOUNT AND WILL INCUR A \$30 **
 ** PAST DUE SURCHARGE. PLEASE CONTACT OUR COMMERCIAL CLIENT SERVICE CENTER, YOUR **
 ** CASH MANAGEMENT SALES OFFICER, OR RELATIONSHIP MANAGER WITH ANY QUESTIONS. **

PAST DUE AGING:

31 DAYS AND OVER \$75,526.64

TREASURER OF STATE	TOTAL AMOUNT DUE	102,664.73
ACCOUNT NUMBER: 14511001050	AMOUNT ENCLOSED:	_____
MAIL PAYMENT TO:	APPLY TO THE FOLLOWING INVOICES:	
KEYBANK NATIONAL ASSOCIATION	INVOICE NBR	INVOICE AMT
ATTN: DEPARTMENT AA 0101	18100000909	38,291.83
P O BOX 901626	18110000891	37,234.81
CLEVELAND, OHIO 44190-1626	18120002460	27,138.09

RETURN THIS PORTION WITH YOUR REMITTANCE



KeyBank National Association
 Account Analysis, OH-01-51-2005
 4910 Tiedeman Road
 Brooklyn, OH 44144-2338

Account Analysis Statement December 2018

*TREASURER OF STATE
 30 E BROAD ST
 COLUMBUS OH 43215-3414

Relationship Overview : *TREASURER OF STATE

Balance Summary	
Average Ledger Balance	\$200,573,564.38
LESS: Average Float	(\$6,123,123.78)
Average Collected Balance	\$194,450,440.60
Average Negative Collected Balance	(\$7,242.15)
Average Positive Collected Balance	\$194,457,682.74
LESS: Compensating Balance	(\$183,375,714.51)
Balance Available to Support Services	\$11,081,968.23
LESS: Balance Needed To Support Services	(\$22,502,875.00)
Balance Deficiency/Surplus for Eligible Services	(\$11,420,906.77)

Billing Information	
Settlement Cycle	Monthly
Payment Method	Invoice
Billing Account	XXXXXXXX1050
Days in the Month	31

Service Charge Summary	
Service Charges Eligible for Earnings Credit	\$53,558.14
LESS: Adjustment	(\$45.00)
Adjusted Service Charges Eligible for Earnings Credit	\$53,513.14
LESS: Earnings Credit Allowance	(\$26,375.05)
Service Charges Due	\$27,138.09

AR 11/25/19

An invoice will be distributed on approximately the 15th business day of the month.

Trend Analysis [^]								
Months	Average Ledger Balance	Average Collected Balance	Balance Available to Support Services	Balance Needed to Support Services	Service Charges Eligible for Earnings Credit	Earnings Credit Allowance	Direct Service Charges	Service Charges Due
DEC	\$200,573,564	\$194,450,441	\$11,081,968	\$22,502,875	\$53,558	\$26,375	\$0	\$27,138
NOV	\$208,508,936	\$202,292,285	\$7,496,069	\$24,364,157	\$53,846	\$16,566	\$0	\$37,235
OCT	\$165,735,133	\$157,160,043	\$10,869,433	\$28,867,562	\$61,489	\$23,152	\$0	\$38,292
SEP	\$166,659,771	\$151,167,786	\$11,923,280	\$29,779,911	\$58,071	\$23,250	\$0	\$34,776
AUG	\$150,388,159	\$144,377,646	\$11,520,166	\$30,416,452	\$59,921	\$22,654	\$0	\$37,223
JUL	\$146,636,903	\$140,569,761	\$10,444,011	\$29,651,673	\$58,711	\$20,679	\$0	\$37,987
JUN	\$214,103,637	\$199,700,245	\$11,902,915	\$29,075,645	\$55,826	\$22,854	\$0	\$32,927
MAY	\$247,580,493	\$235,469,971	\$11,365,099	\$35,822,823	\$70,572	\$22,389	\$0	\$48,149
APR	\$257,407,425	\$220,634,392	\$12,861,887	\$69,482,306	\$134,797	\$24,952	\$0	\$109,845
MAR	\$206,074,351	\$196,053,416	\$14,727,704	\$60,492,030	\$117,356	\$28,572	\$0	\$88,784
FEB	\$145,663,842	\$139,207,323	\$12,686,132	\$86,520,076	\$129,782	\$19,029	\$0	\$110,753
JAN	\$165,385,590	\$143,763,778	\$11,848,259	\$42,271,509	\$62,985	\$17,654	\$0	\$45,331

Please contact your Account Officer or the Commercial Business Banking Center at 1-800-821-2829 with questions.

Account Officer: Lara Deleone
 Center: 3080035 SO



KeyBank National Association
Account Analysis, OH-01-51-2005
4910 Tiedeman Road
Brooklyn, OH 44144-2338

Account Analysis Statement December 2018

Relationship Overview : *TREASURER OF STATE

YTD	\$189,559,817	\$177,070,591	\$11,560,577	\$40,770,585	\$916,913	\$268,126	\$0	\$648,438
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^ All numbers in this section are rounded to the nearest whole dollar



Relationship Summary

Relationship Overview : *TREASURER OF STATE

Accounts in Relationship: 64

Accounts Analyzed ^

Non Interest Bearing Accounts

Account Number	Account Name	Earnings Credit Rate	Balance Needed to Support Services	Balance Available to Support Services	Service Charges Eligible for Earnings Credit	Direct Service Charges	Earnings Credit Allowance
14511001050	*TREASURER OF STATE	2.81%	\$11,903,386	\$391	\$28,331	\$0	\$1
14511001100	TREASURER OF STATE	2.81%	\$196,089	\$39	\$467	\$0	\$0
14511001225	TREASURER OF STATE	2.81%	\$85,313	\$0	\$203	\$0	\$0
14511002447	TREASURER OF STATE	2.81%	\$7,521	\$0	\$18	\$0	\$0
14511002454	TREASURER OF STATE	2.81%	\$7,458	\$0	\$18	\$0	\$0
14511002462	TREASURER OF STATE	2.81%	\$7,342	\$0	\$17	\$0	\$0
14511002470	TREASURER OF STATE	2.81%	\$75,041	\$0	\$179	\$0	\$0
14511002488	TREASURER OF STATE	2.81%	\$1,619,307	\$0	\$3,854	\$0	\$0
354511001688	TREASURER OF STATE	2.81%	\$10,052	\$0	\$24	\$0	\$0
354511002793	TREASURER OF STATE	2.81%	\$7,248	\$0	\$17	\$0	\$0
359681004818	TREASURER OF STATE	2.81%	\$91,771	\$0	\$218	\$0	\$0
359681036752	TREASURER OF STATE	2.81%	\$7,143	\$0	\$17	\$0	\$0
359681092367	TREASURER OF STATE	2.81%	\$272,201	\$0	\$648	\$0	\$0
359681099438	TREASURER OF STATE	2.81%	\$8,676	\$0	\$21	\$0	\$0
359681107165	TREASURER OF STATE	2.81%	\$4,202	\$0	\$10	\$0	\$0
359681113973	TREASURER OF STATE	2.81%	\$11,649	\$0	\$28	\$0	\$0
359681120929	TREASURER OF STATE	2.81%	\$70,524	\$0	\$168	\$0	\$0
359681120952	TREASURER OF STATE	2.81%	\$40,346	\$0	\$96	\$0	\$0
359681129375	TREASURER OF STATE	2.81%	\$16,607	\$0	\$40	\$0	\$0
359681130506	TREASURER OF STATE	2.81%	\$76,910	\$0	\$183	\$0	\$0
359681147740	TREASURER OF STATE	2.81%	\$5,588	\$463	\$13	\$0	\$1
359681150413	TREASURER OF STATE	2.81%	\$15,226	\$0	\$36	\$0	\$0
359681156428	TREASURER OF STATE	2.81%	\$10,966	\$0	\$26	\$0	\$0
359681163028	TREASURER OF STATE	2.81%	\$5,462	\$780	\$13	\$0	\$2
359681172128	TREASURER OF STATE	2.81%	\$5,462	\$4,698	\$13	\$0	\$11
359681172136	TREASURER OF STATE	2.81%	\$5,462	\$1,173	\$13	\$0	\$3
359681177572	TREASURER OF STATE	2.81%	\$8,708	\$0	\$21	\$0	\$0
359681181921	TREASURER OF STATE	2.81%	\$15,788	\$0	\$38	\$0	\$0
359681183448	TREASURER OF STATE	2.81%	\$7,353	\$0	\$18	\$0	\$0
359681197869	TREASURER OF STATE	2.81%	\$19,632	\$756,452	\$47	\$0	\$1,800
359681211991	STATE OF OHIO OBM WELFARE	2.81%	\$2,062,628	\$0	\$4,909	\$0	\$0
359681212064	STATE OF OHIO OBM MEDICAID	2.81%	\$626,532	\$0	\$1,491	\$0	\$0
359681212072	STATE OF OHIO OBM VENDOR	2.81%	\$1,418,418	\$0	\$3,376	\$0	\$0
359681237483	TREASURER OF STATE	2.81%	\$7,311	\$0	\$17	\$0	\$0
359681237491	TREASURER OF STATE	2.81%	\$38,287	\$38,982	\$91	\$0	\$93
359681245668	STATE OF OHIO	2.81%	\$127,886	\$0	\$304	\$0	\$0
359681245692	STATE OF OHIO	2.81%	\$2,405,500	\$0	\$5,725	\$0	\$0
359681296968	TREASURER OF STATE	2.81%	\$8,298	\$6	\$20	\$0	\$0
359681318788	STATE OF OHIO	2.81%	\$7,248	\$0	\$17	\$0	\$0
359681324307	OHIO DEPARTMENT OF	2.81%	\$9,576	\$0	\$23	\$0	\$0
359681341533	OHIO DEPARTMENT OF	2.81%	\$10,084	\$0	\$24	\$0	\$0
359681341541	OHIO DEPARTMENT OF	2.81%	\$16,439	\$0	\$39	\$0	\$0
359681342838	STATE OF OHIO	2.81%	\$4,580	\$10,278,983	\$11	\$0	\$24,464
359681362950	TREASURER OF STATE	2.81%	\$9,674	\$0	\$23	\$0	\$0
359681362968	TREASURER OF STATE	2.81%	\$11,092	\$0	\$26	\$0	\$0
359681367348	TREASURER OF STATE	2.81%	\$7,185	\$0	\$17	\$0	\$0
359681367355	TREASURER OF STATE	2.81%	\$7,143	\$0	\$17	\$0	\$0
359681367363	TREASURER OF STATE	2.81%	\$7,720	\$0	\$18	\$0	\$0



Account Analysis Statement December 2018

Relationship Summary

Relationship Name : *TREASURER OF STATE

Accounts Analyzed^ - Continued							
<i>Account Number</i>	<i>Account Name</i>	<i>Earnings Credit Rate</i>	<i>Balance Needed to Support Services</i>	<i>Balance Available to Support Services</i>	<i>Service Charges Eligible for Earnings Credit</i>	<i>Direct Service Charges</i>	<i>Earnings Credit Allowance</i>
359681375382	TREASURER OF STATE	2.81%	\$7,143	\$0	\$17	\$0	\$0
359681395919	STATE OF OHIO DAS	2.81%	\$8,844	\$0	\$21	\$0	\$0
359681398533	TREASURER OF STATE	2.81%	\$5,882	\$0	\$14	\$0	\$0
359681398541	TREASURER OF STATE	2.81%	\$10,777	\$0	\$26	\$0	\$0
359681409108	TREASURER OF STATE	2.81%	\$7,164	\$0	\$17	\$0	\$0
359681409116	TREASURER OF STATE	2.81%	\$9,748	\$0	\$23	\$0	\$0
359681415592	TREASURER OF STATE	2.81%	\$241,371	\$0	\$574	\$0	\$0
359681435707	TREASURER OF STATE	2.81%	\$11,187	\$0	\$27	\$0	\$0
359681481164	TREASURER OF STATE	2.81%	\$723,230	\$0	\$1,721	\$0	\$0
359681492963	TREASURER OF STATE	2.81%	\$7,321	\$0	\$17	\$0	\$0
359681530721	TREASURER OF STATE	2.81%	\$12,185	\$0	\$29	\$0	\$0
Sub Total			\$22,448,884	\$11,081,968	\$53,430	\$0	\$26,375
Interest Bearing Accounts							
<i>Account Number</i>	<i>Account Name</i>	<i>Earnings Credit Rate</i>	<i>Balance Needed to Support Services</i>	<i>Balance Available to Support Services</i>	<i>Service Charges Eligible for Earnings Credit</i>	<i>Direct Service Charges</i>	<i>Earnings Credit Allowance</i>
359681260766	TREASURER OF STATE	2.81%	\$9,664	\$0	\$23	\$0	\$0
359681261657	TREASURER OF STATE	2.81%	\$9,664	\$0	\$23	\$0	\$0
359681261665	TREASURER OF STATE	2.81%	\$9,664	\$0	\$23	\$0	\$0
359683018600	TREASURER OF STATE	2.81%	\$15,336	\$0	\$37	\$0	\$0
359683035281	TREASURER OF STATE	2.81%	\$9,664	\$0	\$23	\$0	\$0
Sub Total			\$53,991	\$0	\$129	\$0	\$0
Total			\$22,502,875	\$11,081,968	\$53,558	\$0	\$26,375

^ All numbers in this section are rounded to the nearest whole dollar

* Notes the billing account for the relationship

Service Activity Summary		
<i>Service Codes</i>	<i>Services</i>	<i>Total Service Charges</i>
AFP00	Balance & Compensation Information	\$0.00
AFP01	General Account Services	\$1,040.00
AFP05	Lockbox Services	\$10.00
AFP10	Depository Services	\$11,436.68
AFP15	Paper Disbursement Services	\$102.16
AFP20	Paper Disb. Reconciliation Services	\$74.58
AFP25	General ACH Services	\$29,731.54
AFP26	ACH Concentration Services	\$0.00
AFP30	EDI Payment Services	\$185.33
AFP35	Wire and Other Funds Xfer Services	\$4,520.50
AFP40	Information Services	\$6,457.35
AFP45	Investment/Custody Services	\$0.00
AFP99	Undefined Services	\$0.00



Account Analysis Statement December 2018

Relationship Summary

Relationship Name : *TREASURER OF STATE

Service Activity Summary - Continued

Service Codes	Services	Total Service Charges
Total		\$53,558.14

Service Activity Details

Service Codes	Services	Quantity	Unit Price	Total Service Charges	Balance Needed To Support Services
00	Balance & Compensation Information				
00 02 12 H	Uncollected Fund Direct Charge	0	\$0.00	\$0.00	\$0.00
00 02 30	Deposit Assessment			\$0.00	\$0.00
	AFP00 TOTAL			\$0.00	\$0.00
01	General Account Services				
01 00 00	Maintenance	64	\$10.00	\$640.00	\$268,902.40
01 00 99	ZBA Concentration Account	6	\$10.00	\$60.00	\$25,209.60
01 00 99	ZBA Subsidiary Accounts	49	\$4.00	\$196.00	\$82,351.36
01 02 02	KeyNav ZBA Report	1	\$0.00	\$0.00	\$0.00
01 03 00	DDA Paper Statement	14	\$6.00	\$84.00	\$35,293.44
01 03 07	KeyNav Corp Banking Statement	126	\$0.00	\$0.00	\$0.00
01 03 99	DDA Stmt Special Cut	6	\$5.00	\$30.00	\$12,604.80
01 03 99	Statement Duplicate Copy	3	\$10.00	\$30.00	\$12,604.80
01 04 07	KeyNav Analysis Statement	1	\$0.00	\$0.00	\$0.00
01 04 40	Electronic Analysis Statement	1	\$0.00	\$0.00	\$0.00
01 04 47	KeyNav RPM 822 Statement	1	\$0.00	\$0.00	\$0.00
	AFP01 TOTAL			\$1,040.00	\$436,966.40
05	Lockbox Services				
05 04 00	KeyNav Receivables Base Fee	1	\$5.00	\$5.00	\$2,100.80
05 04 24	KeyNav LBX Image Base Fee	1	\$5.00	\$5.00	\$2,100.80
	AFP05 TOTAL			\$10.00	\$4,201.60
10	Depository Services				
10 00 00	Branch Deposited Cash	7,454.44	\$0.0005	\$3.73	\$1,566.01
10 01 00	Vault Deposited Cash	385,819.29	\$0.00109	\$420.54	\$176,695.35
10 02 00	Deposits Branch\Night Drop Tkt	95	\$0.55	\$52.25	\$21,953.34
10 02 00	Deposits Key Capture Ticket	712	\$0.08	\$56.96	\$23,932.30
10 02 00	Deposits Key Image Cash Letter	43	\$0.08	\$3.44	\$1,445.35
10 02 00	Deposits Vault Ticket	18	\$0.08	\$1.44	\$605.03
10 02 00	Miscellaneous Deposit Tickets	12	\$0.55	\$6.60	\$2,773.05
10 02 1B	Electronic Item Clearing Fee	21,309	\$0.07	\$1,491.63	\$626,723.24
10 02 1B	ICL Clear Agent	48,602	\$0.07	\$3,402.14	\$1,429,443.14
10 02 1B	RDC Scanned Item	21,309	\$0.01	\$213.09	\$89,531.88
10 02 10	ICL On-Us	7,220	\$0.03	\$216.60	\$91,006.65
10 02 18	ICL Direct Send	82,372	\$0.03	\$2,471.16	\$1,038,282.58
10 02 24	Branch Per Item Charge	322	\$0.10	\$32.20	\$13,529.14
10 04 00	Check Charge Backs	139	\$1.00	\$139.00	\$58,402.24
10 04 02	Redeposited Returned	133	\$1.50	\$199.50	\$83,821.92
10 04 16	KeyNav Return Item Report	1	\$5.00	\$5.00	\$2,100.80



Account Analysis Statement December 2018

Relationship Summary

Relationship Name : *TREASURER OF STATE

Service Activity Details - Continued					
<i>Service Codes</i>	<i>Services</i>	<i>Quantity</i>	<i>Unit Price</i>	<i>Total Service Charges</i>	<i>Balance Needed To Support Services</i>
10 04 16	Return Advice Image Inquiry	1	\$0.00	\$0.00	\$0.00
10 04 16	Return Item Image	35	\$0.50	\$17.50	\$7,352.80
10 06 00	Deposit Recon Maintenance	1	\$10.00	\$10.00	\$4,201.60
10 06 10	Deposit Recon Per Deposit	49	\$0.10	\$4.90	\$2,058.78
10 99 99	ICL Monthly Fee	2	\$100.00	\$200.00	\$84,032.00
10 99 99	RDC Monthly Fee	88	\$28.00	\$2,464.00	\$1,035,274.24
10 99 99	RDC Reporting Module	1	\$0.00	\$0.00	\$0.00
10 99 99	RDC Setup Fee	1	\$25.00	\$25.00	\$10,504.00
	AFP10 TOTAL			\$11,436.68	\$4,805,235.44
15	Paper Disbursement Services				
15 00 30	Positive Pay Maintenance	2	\$5.00	\$10.00	\$4,201.60
15 01 00	Checks/Debits Paid	1,224	\$0.045	\$55.08	\$23,142.41
15 01 20	Positive Pay Per Item	1,229	\$0.02	\$24.58	\$10,327.52
15 03 22	Pospay/ Pymt Protection Return	5	\$0.00	\$0.00	\$0.00
15 04 10	KeyNav Stop Payment Entry	5	\$2.50	\$12.50	\$5,252.00
	AFP15 TOTAL			\$102.16	\$42,923.53
20	Paper Disb. Reconciliation Services				
20 00 10	Reconciliation Maintenance	2	\$10.00	\$20.00	\$8,403.20
20 01 10	Reconciliation Per Item	1,229	\$0.02	\$24.58	\$10,327.52
20 02 01	ARP Weekly Trans Input/Month	1	\$20.00	\$20.00	\$8,403.20
20 03 24	ARP Recon Paper Report	1	\$10.00	\$10.00	\$4,201.60
	AFP20 TOTAL			\$74.58	\$31,335.52
25	General ACH Services				
25 00 00	ACH Monthly Fee	10	\$10.00	\$100.00	\$42,016.00
25 01 00	Orig ACH Dr Via Direct Send	213,193	\$0.025	\$5,329.86	\$2,239,379.23
25 01 00	Originated ACH DB Via KeyNav	150	\$0.025	\$3.76	\$1,575.59
25 01 01	ACH Tax Payment Via KeyNav	3	\$0.50	\$1.50	\$630.24
25 01 01	Orig ACH Cr Via Direct Send	395,810	\$0.025	\$9,895.26	\$4,157,588.20
25 01 01	Originated ACH Cr Via KeyNav	18	\$0.025	\$0.45	\$189.07
25 01 20	ACH Addenda Originated	183,532	\$0.025	\$4,588.31	\$1,927,820.11
25 01 40	Originated Late File Surcharge	86	\$0.75	\$64.50	\$27,100.32
25 02 00	Incoming ACH Debit Item	29	\$0.025	\$0.73	\$304.59
25 02 01	Incoming ACH Credit Item	78,516	\$0.025	\$1,963.04	\$824,731.88
25 02 20	ACH Received Addenda	86,643	\$0.025	\$2,166.13	\$910,097.97
25 03 02	ACH Return Items	1,410	\$0.50	\$705.00	\$296,212.80
25 03 02	Unauthorized ACH Item Return	98	\$0.50	\$49.00	\$20,587.84
25 04 01	CAR,Noc,Rtn Rpt Via E-Mail	308	\$4.00	\$1,232.00	\$517,637.12
25 05 01	ACH Data Transmission	325	\$5.00	\$1,625.00	\$682,760.00
25 06 40	ACH Reversal Or Deletion	27	\$10.00	\$270.00	\$113,443.20
25 07 01	CAR Report Via KeyNav IR	1	\$5.00	\$5.00	\$2,100.80
25 07 01	Rtn ACH Converted Draft Rpt	1	\$0.00	\$0.00	\$0.00
25 07 01	Rtn ACH Resubmitted Via ACH Rpt	1	\$0.00	\$0.00	\$0.00
25 10 00	ACH Setup	1	\$0.00	\$0.00	\$0.00
25 10 50	EPA Implementation Fee	1	\$10.00	\$10.00	\$4,201.60
25 10 52	EPA Admin Fee/Month	61	\$3.00	\$183.00	\$76,889.28



Account Analysis Statement December 2018

Relationship Summary

Relationship Name : *TREASURER OF STATE

Service Activity Details - Continued					
<i>Service Codes</i>	<i>Services</i>	<i>Quantity</i>	<i>Unit Price</i>	<i>Total Service Charges</i>	<i>Balance Needed To Support Services</i>
25 10 70	ACH Noc	3,018	\$0.50	\$1,509.00	\$634,021.44
25 11 00	ACH Direct Monthly Maint	1	\$15.00	\$15.00	\$6,302.40
25 11 00	KeyNav ACH Monthly Base Fee	1	\$15.00	\$15.00	\$6,302.40
	AFP25 TOTAL			\$29,731.54	\$12,491,892.08
26	ACH Concentration Services				
26 04 00	ACH Reports	1	\$0.00	\$0.00	\$0.00
	AFP26 TOTAL			\$0.00	\$0.00
30	EDI Payment Services				
30 00 00	Monthly EDI Origination Fee	2	\$5.00	\$10.00	\$4,201.60
30 02 10	EDI Translation Fee/1000 Chara	1,213	\$0.025	\$30.33	\$12,741.35
30 02 25	KeyNav Intraday EDI Remit Rpt	1	\$45.00	\$45.00	\$18,907.20
30 02 25	KeyNav Previous Day EDI Report	1	\$0.00	\$0.00	\$0.00
30 05 00	EDI Per File Orig/Recd Fee	20	\$5.00	\$100.00	\$42,016.00
	AFP30 TOTAL			\$185.33	\$77,866.15
35	Wire and Other Funds Xfer Services				
35 01 00	KeyNav Domestic Repeat	1	\$5.00	\$5.00	\$2,100.80
35 01 03	KeyNav Domestic Nonrepeat	16	\$5.00	\$80.00	\$33,612.80
35 01 04	Batch Wire Domestic	2	\$8.00	\$16.00	\$6,722.56
35 01 13	KeyNav International Nonrepeat	5	\$10.00	\$50.00	\$21,008.00
35 01 20	KeyNav Internal Repeat	19	\$3.50	\$66.50	\$27,940.64
35 01 23	KeyNav Internal Nonrepeat	6	\$3.50	\$21.00	\$8,823.36
35 01 24	Batch Wire Internal Nonrepeat	50	\$2.00	\$100.00	\$42,016.00
35 03 00	Incoming Domestic Wire Stp	519	\$8.00	\$4,152.00	\$1,744,504.32
35 04 11	Wire Mail Advice For Incoming	1	\$5.00	\$5.00	\$2,100.80
35 06 00	KeyNav Wire Maintenance	1	\$25.00	\$25.00	\$10,504.00
35 40 0Z	KeyNav In/Out Wire Rpt	1	\$0.00	\$0.00	\$0.00
	AFP35 TOTAL			\$4,520.50	\$1,899,333.28
40	Information Services				
40 00 12	KeyNav BAI2 Previous Day File	1	\$2.50	\$2.50	\$1,050.40
40 00 15	KeyNav BAI2 Intraday File	1	\$2.50	\$2.50	\$1,050.40
40 00 52	KeyNav Previous Day Report	126	\$1.75	\$220.50	\$92,645.28
40 00 55	KeyNav Intraday Report	126	\$1.75	\$220.50	\$92,645.28
40 01 10	BAI File Transfer Per Acct	156	\$5.00	\$780.00	\$327,724.80
40 01 10	BAI File Xfer Per Detail	170,578	\$0.014	\$2,388.09	\$1,003,380.73
40 01 10	BAI Per File Transfer Fee	66	\$2.50	\$165.00	\$69,326.40
40 02 10	KeyNav Online Access	3	\$0.00	\$0.00	\$0.00
40 02 71	KeyNav Pre Day Detail Items	86,123	\$0.016	\$1,377.97	\$578,967.03
40 02 74	KeyNav Intraday Detail Items	80,737	\$0.016	\$1,291.79	\$542,759.32
40 08 00	Long-Term Image Access	17	\$0.50	\$8.50	\$3,571.36
	AFP40 TOTAL			\$6,457.35	\$2,713,121.00
45	Investment/Custody Services				



Account Analysis Statement

December 2018

Relationship Summary

Relationship Name : *TREASURER OF STATE

Service Activity Details - Continued					
<i>Service Codes</i>	<i>Services</i>	<i>Quantity</i>	<i>Unit Price</i>	<i>Total Service Charges</i>	<i>Balance Needed To Support Services</i>
45 04 03	KeyNav Investments Confirm Rpt	1	\$0.00	\$0.00	\$0.00
	AFP45 TOTAL			\$0.00	\$0.00
99	Undefined Services				
99 99 99	Public Reloadable	1	\$0.00	\$0.00	\$0.00
	AFP99 TOTAL			\$0.00	\$0.00
	Total			\$53,558.14	\$22,502,875.00

DDATRMS2	25 05 01	ACH DATA TRANSMISSION	5	29 \$	145.000 \$	145.000 \$	-	
DDATRMS2	25 05 01	ACH DATA TRANSMISSION	5	7 \$	35.000 \$	35.000 \$	-	
DDATRMS2	25 05 01	ACH DATA TRANSMISSION	5	20 \$	100.000 \$	100.000 \$	-	
DDATRMS2	25 05 01	ACH DATA TRANSMISSION	5	2 \$	10.000 \$	10.000 \$	-	
DDATRMS2	25 05 01	ACH DATA TRANSMISSION	5	40 \$	200.000 \$	200.000 \$	-	
DDATRMS2	25 05 01	ACH DATA TRANSMISSION	5	8 \$	40.000 \$	40.000 \$	-	
DDATRMS2	25 05 01	ACH DATA TRANSMISSION	5	46 \$	230.000 \$	230.000 \$	-	
DDATRMS2	25 05 01	ACH DATA TRANSMISSION	5	17 \$	85.000 \$	85.000 \$	-	
DDATRMS2	25 05 01	ACH DATA TRANSMISSION	5	8 \$	40.000 \$	40.000 \$	-	
DDAOLDIR	25 11 00	ACH DIRECT MONTHLY MAINT	15	1 \$	15.000 \$	15.000 \$	-	
DDACHMTH	25 00 00	ACH MONTHLY FEE	10	4 \$	40.000 \$	40.000 \$	-	
DDACHMTH	25 00 00	ACH MONTHLY FEE	10	2 \$	20.000 \$	20.000 \$	-	
DDACHMTH	25 00 00	ACH MONTHLY FEE	10	1 \$	10.000 \$	10.000 \$	-	
DDACHMTH	25 00 00	ACH MONTHLY FEE	10	1 \$	10.000 \$	10.000 \$	-	
DDACHMTH	25 00 00	ACH MONTHLY FEE	10	1 \$	10.000 \$	10.000 \$	-	
DDACHMTH	25 00 00	ACH MONTHLY FEE	10	1 \$	10.000 \$	10.000 \$	-	
DDACHNOC	25 10 70	ACH NOC	0.5	2688 \$	1,344.000 \$	1,344.000 \$	-	
DDACHNOC	25 10 70	ACH NOC	0.5	14 \$	7.000 \$	7.000 \$	-	
DDACHNOC	25 10 70	ACH NOC	0.5	24 \$	12.000 \$	12.000 \$	-	
DDACHNOC	25 10 70	ACH NOC	0.5	29 \$	14.500 \$	14.500 \$	-	
DDACHNOC	25 10 70	ACH NOC	0.5	46 \$	23.000 \$	23.000 \$	-	
DDACHNOC	25 10 70	ACH NOC	0.5	2 \$	1.000 \$	1.000 \$	-	
DDACHNOC	25 10 70	ACH NOC	0.5	51 \$	25.500 \$	25.500 \$	-	
DDACHNOC	25 10 70	ACH NOC	0.5	72 \$	36.000 \$	36.000 \$	-	
DDACHNOC	25 10 70	ACH NOC	0.5	66 \$	33.000 \$	33.000 \$	-	
DDACHNOC	25 10 70	ACH NOC	0.5	25 \$	12.500 \$	12.500 \$	-	
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	2279 \$	56.980 \$	56.975 \$	0.00	Rounding
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	17 \$	0.430 \$	0.425 \$	0.01	Rounding
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	14 \$	0.350 \$	0.350 \$	-	
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	8 \$	0.200 \$	0.200 \$	-	
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	2999 \$	74.980 \$	74.975 \$	0.01	Rounding
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	80920 \$	2,023.000 \$	2,023.000 \$	-	
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	30 \$	0.750 \$	0.750 \$	-	
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	1 \$	0.030 \$	0.025 \$	0.01	Rounding
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	73 \$	1.830 \$	1.825 \$	0.01	Rounding
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	120 \$	3.000 \$	3.000 \$	-	
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	1 \$	0.030 \$	0.025 \$	0.01	Rounding
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	4 \$	0.100 \$	0.100 \$	-	
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	32 \$	0.800 \$	0.800 \$	-	
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	8 \$	0.200 \$	0.200 \$	-	
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	13 \$	0.330 \$	0.325 \$	0.01	Rounding
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	4 \$	0.100 \$	0.100 \$	-	
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	2 \$	0.050 \$	0.050 \$	-	
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	11 \$	0.280 \$	0.275 \$	0.01	Rounding
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	50 \$	1.250 \$	1.250 \$	-	
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	2 \$	0.050 \$	0.050 \$	-	
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	28 \$	0.700 \$	0.700 \$	-	
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	13 \$	0.330 \$	0.325 \$	0.01	Rounding
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	1 \$	0.030 \$	0.025 \$	0.01	Rounding
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	4 \$	0.100 \$	0.100 \$	-	
DDACHRAD	25 02 20	ACH RECEIVED ADDENDA	0.025	9 \$	0.230 \$	0.225 \$	0.01	Rounding
DDAOLACH	26 04 00	ACH REPORTS	0	1 \$	- \$	- \$	-	
DDAACRT1	25 03 02	ACH RETURN ITEMS	0.5	1054 \$	527.000 \$	527.000 \$	-	
DDAACRT1	25 03 02	ACH RETURN ITEMS	0.5	5 \$	2.500 \$	2.500 \$	-	
DDAACRT1	25 03 02	ACH RETURN ITEMS	0.5	3 \$	1.500 \$	1.500 \$	-	
DDAACRT1	25 03 02	ACH RETURN ITEMS	0.5	32 \$	16.000 \$	16.000 \$	-	
DDAACRT1	25 03 02	ACH RETURN ITEMS	0.5	5 \$	2.500 \$	2.500 \$	-	
DDAACRT1	25 03 02	ACH RETURN ITEMS	0.5	3 \$	1.500 \$	1.500 \$	-	
DDAACRT1	25 03 02	ACH RETURN ITEMS	0.5	4 \$	2.000 \$	2.000 \$	-	
DDAACRT1	25 03 02	ACH RETURN ITEMS	0.5	59 \$	29.500 \$	29.500 \$	-	
DDAACRT1	25 03 02	ACH RETURN ITEMS	0.5	15 \$	7.500 \$	7.500 \$	-	
DDAACRT1	25 03 02	ACH RETURN ITEMS	0.5	74 \$	37.000 \$	37.000 \$	-	
DDAACRT1	25 03 02	ACH RETURN ITEMS	0.5	77 \$	38.500 \$	38.500 \$	-	
DDAACRT1	25 03 02	ACH RETURN ITEMS	0.5	42 \$	21.000 \$	21.000 \$	-	
DDAACRT1	25 03 02	ACH RETURN ITEMS	0.5	1 \$	0.500 \$	0.500 \$	-	
DDAACRT1	25 03 02	ACH RETURN ITEMS	0.5	35 \$	17.500 \$	17.500 \$	-	
DDAACRT1	25 03 02	ACH RETURN ITEMS	0.5	1 \$	0.500 \$	0.500 \$	-	
DDACHMNT	25 06 40	ACH REVERSAL OR DELETION	10	2 \$	20.000 \$	20.000 \$	-	
DDACHMNT	25 06 40	ACH REVERSAL OR DELETION	10	25 \$	250.000 \$	250.000 \$	-	
DDACHSET	25 10 00	ACH SETUP	0	1 \$	- \$	- \$	-	
DDACHTAX	25 01 01	ACH TAX PAYMENT VIA KEYNAV	0.5	3 \$	1.500 \$	1.500 \$	-	
DDACHNOC	25 10 70	ACHNOC	0.5	1 \$	0.500 \$	0.500 \$	-	
DDARSPMA	20 03 24	ARP RECON PAPER REPORT	10	1 \$	10.000 \$	10.000 \$	-	
DDAPPTRI	20 02 01	ARP WEEKLY TRANS INPUT/MONTH	20	1 \$	20.000 \$	20.000 \$	-	
DDAOLXAC	40 01 10	BAI FILE TRANSFER PER ACCT	5	156 \$	780.000 \$	780.000 \$	-	
DDAOLXIT	40 01 10	BAI FILE XFER PER DETAIL	0.014	170578 \$	2,388.090 \$	2,388.092 \$	(0.00)	Rounding
DDAOLXBA	40 01 10	BAI PER FILE TRANSFER FEE	2.5	66 \$	165.000 \$	165.000 \$	-	
DDABWIRD	35 01 04	BATCH WIRE DOMESTIC	8	2 \$	16.000 \$	16.000 \$	-	

DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDAMAIN	01 00 00	MAINTENANCE	10	1 \$	10.000 \$	10.000 \$	-
DDADPOTH	10 02 00	MISCELLANEOUS DEPOSIT TICKETS	0.55	4 \$	2.200 \$	2.200 \$	-
DDADPOTH	10 02 00	MISCELLANEOUS DEPOSIT TICKETS	0.55	8 \$	4.400 \$	4.400 \$	-
DDAEDIOR	30 00 00	MONTHLY EDI ORIGINATION FEE	5	2 \$	10.000 \$	10.000 \$	-
DDACHCR1	25 01 01	ORIG ACH CR VIA DIRECT SEND	0.025	12 \$	0.300 \$	0.300 \$	-
DDACHCR1	25 01 01	ORIG ACH CR VIA DIRECT SEND	0.025	2 \$	0.050 \$	0.050 \$	-
DDACHCR1	25 01 01	ORIG ACH CR VIA DIRECT SEND	0.025	6 \$	0.150 \$	0.150 \$	-
DDACHCR1	25 01 01	ORIG ACH CR VIA DIRECT SEND	0.025	92663 \$	2,316.580 \$	2,316.575 \$	0.01 Rounding
DDACHCR1	25 01 01	ORIG ACH CR VIA DIRECT SEND	0.025	28175 \$	704.380 \$	704.375 \$	0.00 Rounding
DDACHCR1	25 01 01	ORIG ACH CR VIA DIRECT SEND	0.025	58274 \$	1,456.850 \$	1,456.850 \$	-
DDACHCR1	25 01 01	ORIG ACH CR VIA DIRECT SEND	0.025	2528 \$	63.200 \$	63.200 \$	-
DDACHCR1	25 01 01	ORIG ACH CR VIA DIRECT SEND	0.025	214136 \$	5,353.400 \$	5,353.400 \$	-
DDACHCR1	25 01 01	ORIG ACH CR VIA DIRECT SEND	0.025	14 \$	0.350 \$	0.350 \$	-
DDACHDR1	25 01 00	ORIG ACH DR VIA DIRECT SEND	0.025	203074 \$	5,076.850 \$	5,076.850 \$	-
DDACHDR1	25 01 00	ORIG ACH DR VIA DIRECT SEND	0.025	128 \$	3.200 \$	3.200 \$	-
DDACHDR1	25 01 00	ORIG ACH DR VIA DIRECT SEND	0.025	2438 \$	60.950 \$	60.950 \$	-
DDACHDR1	25 01 00	ORIG ACH DR VIA DIRECT SEND	0.025	3071 \$	76.780 \$	76.775 \$	0.00 Rounding
DDACHDR1	25 01 00	ORIG ACH DR VIA DIRECT SEND	0.025	1394 \$	34.850 \$	34.850 \$	-
DDACHDR1	25 01 00	ORIG ACH DR VIA DIRECT SEND	0.025	881 \$	22.030 \$	22.025 \$	0.01 Rounding
DDACHDR1	25 01 00	ORIG ACH DR VIA DIRECT SEND	0.025	169 \$	4.230 \$	4.225 \$	0.01 Rounding
DDACHDR1	25 01 00	ORIG ACH DR VIA DIRECT SEND	0.025	9 \$	0.230 \$	0.225 \$	0.01 Rounding
DDACHDR1	25 01 00	ORIG ACH DR VIA DIRECT SEND	0.025	15 \$	0.380 \$	0.375 \$	0.01 Rounding
DDACHDR1	25 01 00	ORIG ACH DR VIA DIRECT SEND	0.025	1 \$	0.030 \$	0.025 \$	0.01 Rounding
DDACHDR1	25 01 00	ORIG ACH DR VIA DIRECT SEND	0.025	2010 \$	50.250 \$	50.250 \$	-
DDACHDR1	25 01 00	ORIG ACH DR VIA DIRECT SEND	0.025	3 \$	0.080 \$	0.075 \$	0.01 Rounding
DDACHCR5	25 01 01	ORIGINATED ACH CR VIA KEYNAV	0.025	18 \$	0.450 \$	0.450 \$	-

DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-
DDAZBASB	01 00 99	ZBA SUBSIDIARY ACCOUNTS	4	1	\$	4.000	\$	4.000	\$	-

\$.27 rounding diff added to the calculated total
 \$45 Incorr chrg - will be credited on the December statement, also added to the calculated total
 \$45 Incorr chrg from October is credited on this statement.
 Subtracted from the calculated total

Total \$ 53,558.14 \$ 53,512.87 \$ 45.27

Service Fee Total \$ 53,513.14
 Earnings Credit Allowance \$ 26,375.05
 Total \$ 27,138.09



STATE BOARD OF DEPOSIT STATE OF OHIO

Members:
Robert Sprague, Chairman
Treasurer of State
Dave Yost
Attorney General
Keith Faber
Auditor of State

CERTIFICATION OF THE EXPENSES OF THE STATE BOARD OF DEPOSIT

In accordance with Chapter 135.02 of the Ohio Revised Code, the undersigned, Chairman and Secretary of the State Board of Deposit of the State of Ohio, hereby certifies that the necessary expenses of the Board, which represent KeyBank trust banking fees for December 2018, are \$8,108.62.

Robert Cole Sprague

CHAIRMAN

Stacy Cumberlander

SECRETARY

February 8, 2019

DATE



Revenue Administration
 OH-01-49-0353
 4900 Tiedeman Road
 Brooklyn, OH 44144

Fee Invoice
 STATE OF OH-REGULAR INVE 0900160
 Services Provided for the Period: 1/30/2018 - 12/31/2018

TREASURER OF STATE
 ATN: FISCAL OFFICE
 30 EAST BROAD ST 10TH FLOOR
 COLUMBUS OH 43215-3414

STATE OF OH-REGULAR INVE AGENT FOR

Invoice Reference No: 0001JRPSJ000

Billing Account Number: 0900160

Invoice Date: 01/04/2019

Payment Due Date: 02/03/2019

Invoice for Services and Expenses

Amount Due	Service Charges	Expense		Total
		Disbursements	Fee Refunds	
Outstanding Balance from Prior Invoice	15,308.37	0.00	0.00	15,308.37
Current Fees for Services and Expenses	8,124.62	0.00	16.00	8,108.62
Less Fee Collections	0.00	0.00	0.00	0.00
Please Pay this Amount	23,432.99	0.00	16.00	23,416.99

How to Contact Us:

Relationship Manager
 THOR G HARALDSSON
 216-889-3675
 216-370-4071
 THOR_G_HARALDSSON@KEYBANK.COM

THG
1-18-19

Make check payable to:
 KeyBank
 Revenue Administration
 PO Box 74543
 Cleveland, Ohio 44194-4543

Please include account number and invoice reference number on your check

Invoice
 Return to KeyBank





Revenue Administration
 OH-01-49-0353
 4900 Tiedeman Road
 Brooklyn, OH 44144

Fee Invoice
 STATE OF OH-REGULAR INVE 0900160
 Services Provided for the Period: 1/30/2019 - 12/31/2019

TREASURER OF STATE
 ATN: FISCAL OFFICE
 30 EAST BROAD ST 10TH FLOOR
 COLUMBUS OH 43215-3414

STATE OF OH-REGULAR INVE AGENT FOR

Invoice Reference No: 0001JRPSJ000

Billing Account Number: 0900160

Invoice Date: 01/04/2019

Payment Due Date: 02/03/2019

Services for the Following Accounts/Portfolios

Portfolio Number	Name of Portfolio	Market Value for Fee Purposes
0900160.1	STATE OF OH-REGULAR INVEST-REG PRI USD	4,121,529,050
0900160.2	STATE OF OH-REGULAR INVEST CORP PRI USD	884,676,000
0900160.4	STATE OF OH-REGULAR CORE PRI USD	2,034,431,792
0900160.5	STATE OF OHIO-REGULAR INVT-TRES PRI USD	1,802,636,550
0900160.6	STATE OF OH-STRUCTURED INVT MISC PRI USD	324,063,627
0900160.8	STATE OF OH-OLC MEGA MILLIONS PRI USD	99,975,694
Total Market Value for Fee Purposes		9,267,312,713

Invoice for Services and Expenses

Amount Due	Service Charges	Expense Disbursements	Fee Refunds	Total
Outstanding Balance from Prior Invoice	15,308.37	0.00	0.00	15,308.37
Current Fees for Services and Expenses	8,124.62	0.00	16.00	8,108.62
Less Fee Collections	0.00	0.00	0.00	0.00
Please Pay this Amount	23,432.99	0.00	16.00	23,416.99

How to Contact Us:

Relationship Manager
 THOR G HARALDSSON
 216-689-3675
 216-370-4071
 THOR_G.HARALDSSON@KEYBANK.COM

Make check payable to:

KeyBank
 Revenue Administration
 PO Box 74543
 Cleveland, Ohio 44194-4543

Please include account number and invoice reference number on your check





Fee Invoice
 STATE OF OH-REGULAR INVE 0900160
 Services Provided for the Period: 1/1/30/2018 - 12/31/2018

Invoice for Service and Expenses

Invoice Reference No: 0001 JRP5J000 Billing Account Number: 0900160 Invoice Date: 01/04/2019 Payment Due Date: 02/03/2019

Summary of Current Charges and Expenses

Base Currency: USD

Summary by Type

Fee Type Description	Quantity	Service Charges	Disbursements	Expense	Total
Account Maintenance	9,267,312.713	7,336.62	0.00	7,336.62	
Depository Eligible Trades - \$4	143	572.00	0.00	572.00	
Depository Ineligible Trades - \$12	18	216.00	0.00	216.00	
Total Current Charges and Expenses		8,124.62	0.00		8,124.62





Fee Invoice
 STATE OF OH-REGULAR INVE 0900160
 Services Provided for the Period: 1/1/30/2018 - 12/31/2018

Invoice for Service and Expenses

Invoice Reference No: 0001JRPSJ000 Billing Account Number: 0900160 Invoice Date: 01/04/2019 Payment Due Date: 02/03/2019

Summary of Current Charges and Expenses

Base Currency: USD

Summary by Account/Portfolio Detail

Portfolio Number	Name of Portfolio	Service Charges	Expense Disbursements	Total
0900160.1	STATE OF OH-REGULAR INVEST-REG PRI USD	3,986.88	0.00	3,986.88
0900160.2	STATE OF OH-REGULAR INVEST CORP PRI USD	712.37	0.00	712.37
0900160.4	STATE OF OH-REGULAR CORE PRI USD	1,634.59	0.00	1,634.59
0900160.5	STATE OF OHIO-REGULAR INVT-TRES PRI USD	1,451.09	0.00	1,451.09
0900160.6	STATE OF OH-STRUCTURED INVT MISC PRI USD	260.55	0.00	260.55
0900160.8	STATE OF OH-OLC MEGA MILLIONS PRI USD	79.14	0.00	79.14
Total Current Charges and Expenses		8,124.62	0.00	8,124.62



Invoice for Service and Expenses

Invoice Reference No: 0001JRPS J000 Billing Account Number: 0900160 Invoice Date: 01/04/2019 Payment Due Date: 02/03/2019

Summary of Current Charges and Expenses

Base Currency: USD

Account Maintenance

Allocation of Fee to Portfolios

Portfolio Number	Name of Portfolio	Quantity	Percent of Total	Fee for the Period
0900160.1	STATE OF OH-REGULAR INVEST-REG PRI USD	4,121,529,050	44.47%	3,262.88
0900160.2	STATE OF OH-REGULAR INVEST CORP PRI USD	884,676,000	9.55%	700.37
0900160.4	STATE OF OH-REGULAR CORE PRI USD	2,034,431,792	21.95%	1,610.59
0900160.5	STATE OF OHIO-REGULAR INVT -TRES PRI USD	1,802,636,550	19.45%	1,427.09
0900160.6	STATE OF OH-STRUCTURED INVT MISC PRI USD	324,063,627	3.50%	256.55
0900160.8	STATE OF OH-OLC MEGA MILLIONS PRI USD	99,975,694	1.08%	79.14
Total Fee for the Period				9,267,312.713

Depository Eligible Trades - \$4

Allocation of Fee to Portfolios

Portfolio Number	Name of Portfolio	Quantity	Percent of Total	Fee for the Period
0900160.1	STATE OF OH-REGULAR INVEST-REG PRI USD	127	88.81%	508.00
0900160.2	STATE OF OH-REGULAR INVEST CORP PRI USD	3	2.10%	12.00
0900160.4	STATE OF OH-REGULAR CORE PRI USD	6	4.20%	24.00
0900160.5	STATE OF OHIO-REGULAR INVT -TRES PRI USD	6	4.20%	24.00
0900160.6	STATE OF OH-STRUCTURED INVT MISC PRI USD	1	0.70%	4.00
Total Fee for the Period				572.00

Fee Period: 11/30/2018 to 12/31/2018

Fee Calculations	Rate	Charge Breakpoint	Quantity	Estimated Annual Fee
	0.0000095	1,000	1,000	0.01
	0.0000095	0	9,267,311,713	88,039.46
Total		1,000	9,267,312,713	88,039.47
Total Fee for the Period				7,336.62

Fee Period: 11/30/2018 to 12/31/2018

Fee Calculations	Rate	Charge Breakpoint	Quantity	Estimated Annual Fee
	4	0	143	572.00
Total		0	143	572.00
Total Fee for the Period				572.00





Fee Invoice
 STATE OF OH-REGULAR INVE 0900160
 Services Provided for the Period: 11/30/2018 - 12/31/2018

Invoice Reference No: 0001JRPSJ000

Billing Account Number: 0900160

Invoice Date: 01/04/2019

Payment Due Date: 02/03/2019

Summary of Current Charges and Expenses

Base Currency: USD

Depository Ineligible Trades - \$12

Fee Period:

11/30/2018 to 12/31/2018

Allocation of Fee to Portfolios

Portfolio Number	Name of Portfolio	Quantity	Percent of Total	Fee for the Period	Rate	Charge Breakpoint	Quantity	Estimated Annual Fee
0900160.1	STATE OF OH-REGULAR INVEST-REG PRI USD	18	100.00%	216.00	12	0	18	216.00
Total				216.00			18	216.00
Total Fee for the Period				216.00				

Total Current Charges and Expenses

8,108.62

Invoice Total

23,416.99



STATE BOARD OF DEPOSIT STATE OF OHIO

Members:

Robert Sprague, Chairman
Treasurer of State

Dave Yost
Attorney General

Keith Faber
Auditor of State

CERTIFICATION OF THE EXPENSES OF THE STATE BOARD OF DEPOSIT

In accordance with Chapter 135.02 of the Ohio Revised Code, the undersigned, Chairman and Secretary of the State Board of Deposit of the State of Ohio, hereby certifies that the necessary expenses of the Board, which represent KeyBank banking fees [Warrant Settlement] for the month of December 2018, are \$4,059.70.

Robert Cole Sprague

CHAIRMAN

Stacy Cumberland

SECRETARY

February 8, 2019

DATE

TREASURER OF STATE - OHIO
 FBO KEY BANK WARRANT SETTLEMENT
 30 E BROAD STREET
 COLUMBUS OH 43215-3414

DATE: JANUARY 11, 2019
 OFFICER: OFFICER LXM3B
 ANALYSIS PERIOD: DECEMBER 2018
 KEY ACCOUNT: 149681006396

ACCOUNT ANALYSIS INVOICE

INVOICE NUMBER	INVOICE DATE	PAYMENT PAYMENT	ADJUSTMENTS	OUTSTANDING INVOICE BALANCE
18090001206	10-11-18	4,706.41	12-18-18	.00
18100000927	11-11-18			5,207.30
18110000917	12-11-18			5,344.09
18120002488	01-11-19			4,059.70
TOTAL OUTSTANDING INVOICE BALANCES:				19,317.50
LESS TOTAL PAYMENTS RECEIVED:				4,706.41
TOTAL AMOUNT DUE:				14,611.09

** PLEASE MAKE TIMELY PAYMENTS ON YOUR ANALYSIS INVOICE. INVOICES WHICH ARE 90 **
 ** DAYS PAST DUE WILL BE DIRECT DEBITED FROM YOUR DDA ACCOUNT AND WILL INCUR A \$30 **
 ** PAST DUE SURCHARGE. PLEASE CONTACT OUR COMMERCIAL CLIENT SERVICE CENTER, YOUR **
 ** CASH MANAGEMENT SALES OFFICER, OR RELATIONSHIP MANAGER WITH ANY QUESTIONS. **

PAST DUE AGING:

31 DAYS AND OVER \$10,551.39

TREASURER OF STATE - OHIO TOTAL AMOUNT DUE 14,611.09
 ACCOUNT NUMBER: 149681006396 AMOUNT ENCLOSED: _____
 MAIL PAYMENT TO: APPLY TO THE FOLLOWING INVOICES:
 KEYBANK NATIONAL ASSOCIATION INVOICE NBR INVOICE AMT PAYMENT AMOUNT
 ATTN: DEPARTMENT AA 0101 18100000927 5,207.30 _____
 P O BOX 901626 18110000917 5,344.09 _____
 CLEVELAND, OHIO 44190-1626 18120002488 4,059.70 _____

RETURN THIS PORTION WITH YOUR REMITTANCE



KeyBank National Association
 Account Analysis, OH-01-51-2005
 4910 Tiedeman Road
 Brooklyn, OH 44144-2338

Account Analysis Statement December 2018

*TREASURER OF STATE OF OHIO
 30 EAST BROAD STREET 10TH FLOOR
 ATTN ACCOUNTING/RECONCILIATION
 COLUMBUS OH 43215-3414

Relationship Overview : *TREASURER OF STATE OF OHIO

Balance Summary	
Average Ledger Balance	(\$12,088.44)
LESS: Average Float	(\$0.00)
Average Collected Balance	(\$12,088.44)
Average Negative Collected Balance	(\$17,321.23)
Average Positive Collected Balance	\$5,232.79
Balance Available to Support Services	\$5,232.79
LESS: Balance Needed To Support Services	(\$1,710,952.44)
Balance Deficiency/Surplus for Eligible Services	(\$1,705,719.65)

Billing Information	
Settlement Cycle	Monthly
Payment Method	Invoice
Billing Account	XXXXXXXX6396
Days in the Month	31

Service Charge Summary	
Service Charges Eligible for Earnings Credit	\$4,072.15
LESS: Earnings Credit Allowance	(\$12.45)
Service Charges Due	\$4,059.70

[Signature]
 12/25/19

An invoice will be distributed on approximately the 15th business day of the month.

Trend Analysis [^]								
Months	Average Ledger Balance	Average Collected Balance	Balance Available to Support Services	Balance Needed to Support Services	Service Charges Eligible for Earnings Credit	Earnings Credit Allowance	Direct Service Charges	Service Charges Due
DEC	(\$12,088)	(\$12,088)	\$5,233	\$1,710,952	\$4,072	\$12	\$0	\$4,060
NOV	\$2,563	\$2,563	\$2,563	\$2,420,655	\$5,350	\$6	\$0	\$5,344
OCT	(\$458,132)	(\$458,132)	\$704,274	\$3,148,990	\$6,707	\$1,500	\$0	\$5,207
SEP	(\$191,604)	(\$191,604)	\$3,061	\$2,416,595	\$4,712	\$6	\$0	\$4,706
AUG	\$7,479	\$7,479	\$7,479	\$3,703,662	\$7,296	\$15	\$0	\$7,282
JUL	\$2,563	\$2,563	\$2,563	\$5,712,118	\$11,310	\$5	\$0	\$11,305
JUN	\$2,563	\$2,563	\$2,563	\$4,756,524	\$9,133	\$5	\$0	\$9,128
MAY	\$2,563	\$2,563	\$2,563	\$6,626,298	\$13,054	\$5	\$0	\$13,049
APR	\$2,563	\$2,563	\$2,563	\$8,229,592	\$15,966	\$5	\$0	\$15,961
MAR	(\$450,710)	(\$450,710)	\$2,232	\$6,914,739	\$13,415	\$4	\$0	\$13,410
FEB	(\$270,666)	(\$270,666)	\$2,471	\$5,795,452	\$8,693	\$4	\$0	\$8,690
JAN	\$2,563	\$2,563	\$2,563	\$3,210,811	\$4,784	\$4	\$0	\$4,780
YTD	(\$113,362)	(\$113,362)	\$61,677	\$4,553,866	\$104,492	\$1,571	\$0	\$102,921

Please contact your Account Officer or the Commercial Business Banking Center at 1-800-821-2829 with questions.

Account Officer: Lara Deleone
 Center: 3080035 SO



KeyBank National Association
Account Analysis, OH-01-51-2005
4910 Tiedeman Road
Brooklyn, OH 44144-2338

Account Analysis Statement December 2018

Relationship Overview : *TREASURER OF STATE OF OHIO

^ All numbers in this section are rounded to the nearest whole dollar



Relationship Summary

Relationship Overview : *TREASURER OF STATE OF OHIO
Accounts in Relationship: 1

Accounts Analyzed ^							
Account Number	Account Name	Earnings Credit Rate	Balance Needed to Support Services	Balance Available to Support Services	Service Charges Eligible for Earnings Credit	Direct Service Charges	Earnings Credit Allowance
149681006396	*TREASURER OF STATE - OHIO	2.81%	\$1,710,952	\$5,233	\$4,072	\$0	\$12
Total			\$1,710,952	\$5,233	\$4,072	\$0	\$12

^ All numbers in this section are rounded to the nearest whole dollar

* Notes the billing account for the relationship

Service Activity Summary			Total Service Charges
Service Codes	Services		
AFP00	Balance & Compensation Information		\$0.00
AFP01	General Account Services		\$0.00
AFP25	General ACH Services		\$0.00
AFP99	Undefined Services		\$4,072.15
Total			\$4,072.15

Service Activity Details					
Service Codes	Services	Quantity	Unit Price	Total Service Charges	Balance Needed To Support Services
00	Balance & Compensation Information				
00 02 30	Deposit Assessment			\$0.00	\$0.00
	AFP00 TOTAL			\$0.00	\$0.00
01	General Account Services				
01 00 00	Maintenance	1	\$0.00	\$0.00	\$0.00
01 04 40	Electronic Analysis Statement	1	\$0.00	\$0.00	\$0.00
	AFP01 TOTAL			\$0.00	\$0.00
25	General ACH Services				
25 10 52	EPA Admin Fee/Month	1	\$0.00	\$0.00	\$0.00
	AFP25 TOTAL			\$0.00	\$0.00
99	Undefined Services				
99 99 99	Warrant Images Delivered	116,347	\$0.035	\$4,072.15	\$1,710,952.44
	AFP99 TOTAL			\$4,072.15	\$1,710,952.44
Total				\$4,072.15	\$1,710,952.44



Account Analysis Statement

December 2018

Account Detail

Account Name: TREASURER OF STATE - OHIO , FBO KEY BANK WARRANT SETTLEMENT

AA

Account Number: 149681006396

Balance Summary	
Average Ledger Balance	(\$12,088.44)
LESS: Average Float	(\$0.00)
Average Collected Balance	(\$12,088.44)
Average Negative Collected Balance	(\$17,321.23)
Average Positive Collected Balance	\$5,232.79
Balance Available to Support Services	\$5,232.79

Rate and Other Information	
Earnings Credit Rate	2.81%
Service Charge Multiplier	\$420.16
Uncollected Funds Rate	0.00%

Service Charge Summary	
Service Charges Eligible for Earnings Credit	\$4,072.15
Earnings Credit Allowance	(\$12.45)
Service Charges Due	\$4,059.70

Service Activity Details					
Service Codes	Services	Quantity	Unit Price	Total Service Charges	Balance Needed To Support Services
00	Balance & Compensation Information				
00 02 30	Deposit Assessment			\$0.00	\$0.00
	AFP00 TOTAL			\$0.00	\$0.00
01	General Account Services				
01 00 00	Maintenance	1	\$0.00	\$0.00	\$0.00
01 04 40	Electronic Analysis Statement	1	\$0.00	\$0.00	\$0.00
	AFP01 TOTAL			\$0.00	\$0.00
25	General ACH Services				
25 10 52	EPA Admin Fee/Month	1	\$0.00	\$0.00	\$0.00
	AFP25 TOTAL			\$0.00	\$0.00
99	Undefined Services				
99 99 99	Warrant Images Delivered	116,347	\$0.035	\$4,072.15	\$1,710,952.44
	AFP99 TOTAL			\$4,072.15	\$1,710,952.44
	Total			\$4,072.15	\$1,710,952.44

Key Bank Account Analysis Verification - December 2018

Date	Key Bank File	Daily Reports	Difference
12/3/18	7,309	7,309	-
12/4/18	8,501	8,501	-
12/5/18	5,635	5,635	-
12/6/18	3,551	3,551	-
12/7/18	5,886	5,886	-
12/10/18	11,107	11,107	-
12/11/18	8,312	8,312	-
12/12/18	6,025	6,025	-
12/13/18	4,316	4,316	-
12/14/18	3,753	3,753	-
12/17/18	5,320	5,320	-
12/18/18	6,235	6,235	-
12/19/18	4,920	4,920	-
12/20/18	3,736	3,736	-
12/21/18	4,279	4,279	-
12/24/18	7,794	7,794	-
12/26/18	4,393	4,393	-
12/27/18	4,878	4,878	-
12/28/18	4,481	4,481	-
12/31/18	5,916	5,916	-
	116,347	116,347	-

Verified by:

Jennifer Biedenbarn

Board of Deposit

KeyBank State Regular Account 6396 - December 2018

Bank Code	Service Code	Description	Unit Price	Total Units	Total Amount	List Price	Variance	Comments
DDAWARIM	99 99 99	WARRANT IMAGES DELIVERED	\$ 0.035	116,347	\$ 4,072.15	\$ 4,072.15	\$ -	Amounts taken from KTT analysis statement-not generated from 822 file. Fees verified with the BSA fee schedule. Quantity verified with Acctg Dept analysis.
Total					\$ 4,072.15	\$ 4,072.15	\$ -	

Service Fee Total	\$ 4,072.15
Earnings Credit Allowance	\$ 12.45
Total	\$ 4,059.70



STATE BOARD OF DEPOSIT

STATE OF OHIO

Members:

Robert Sprague, Chairman
Treasurer of State

Dave Yost
Attorney General

Keith Faber
Auditor of State

CERTIFICATION OF THE EXPENSES OF THE STATE BOARD OF DEPOSIT

In accordance with Chapter 135.02 of the Ohio Revised Code, the undersigned, Chairman and Secretary of the State Board of Deposit of the State of Ohio, hereby certifies that the necessary expenses of the Board, which represent PNC banking fees [Dept. of Natural Resources – Mine Subsidence] for the month of December 2018, are \$771.67.

Robert S. Sprague

CHAIRMAN

Stacey Cumberlander

SECRETARY

February 8, 2019

DATE

PNC BANK, N.A.
P.O. BOX 821523
PHILADELPHIA, PA 19182-1523



Invoice Date	1-10-19
Invoice Number	1218718431
Customer Number	0001629970
Cost Center	070-0005063
New Balance	3,127.30

STATE OF OHIO
ODNR MINE SUBSTANCE INS FUND
ATTN TREASURY SERVICES
30 E BROAD ST FL 10
COLUMBUS OH 43215

ACCOUNT ANALYSIS SERVICE CHARGE

DATE	DESCRIPTION	AMOUNT
12-12-18	PREVIOUS BALANCE	2,355.63
01-10-19	CHARGE FOR SERVICES	771.67
	PAY THIS AMOUNT	3,127.30

Payment is due upon receipt of this invoice

You may pay this amount electronically via the ACH by sending your payment including both invoice number and customer number to Account Number 9087878 at PNC Bank, N.A. transit routing number of 043000096.

↓ *Please Return the Portion Below With Your Payment* ↓

Remittance Instructions:

1. Please return this portion of the invoice with your remittance.

2. REMIT TO:

PNC BANK, N.A.
P.O. BOX 821523
PHILADELPHIA, PA 19182-1523



Invoice Date	1-10-19
Invoice Number	1218718431
Customer Number	0001629970
Cost Center	070-0005063
New Balance	3,127.30

ACCOUNT ANALYSIS SERVICE CHARGE

DATE	DESCRIPTION	AMOUNT
12-12-18	PREVIOUS BALANCE	2,355.63
01-10-19	CHARGE FOR SERVICES	771.67
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PNC BANK, N.A.
 P.O. BOX 821523
 PHILADELPHIA, PA 19182-1523



Invoice Date	1-10-19
Invoice Number	1218718431
Customer Number	0001629970
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STATE OF OHIO
 ODNR MINE SUBSTANCE INS FUND
 ATTN TREASURY SERVICES
 30 E BROAD ST FL 10
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ACCOUNT ANALYSIS SERVICE CHARGE

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ACCOUNT ANALYSIS STATEMENT

CLIENT NAME & ADDRESS	ACCOUNT INFORMATION	ANALYSIS PERIOD
STATE OF OHIO ODNR MINE SUBSTANCE INS FUND ATTN TREASURY SERVICES 30 E BROAD ST FL 10 COLUMBUS OH 43215	ACCOUNT 0001629970 SUMMARY TREASURY JENNIFER A JAMES OFFICER (614) 463-7335 CLIENT TMCC@pnc.com SERVICES 1-800-669-1518	12/01/2018 to 12/31/2018
		STATEMENT DATE
		JANUARY 10, 2019

ACCOUNTS INCLUDED IN THIS ANALYSIS

BANK NUMBER	ACCOUNT NUMBER	ACCOUNT NAME	ACCOUNT TITLE
070	4006903911	STATE OF OHIO ODNR MINE	MINE SUBSIDENCE INSURANCE FUND

PLEASE REVIEW YOUR ANALYSIS PROMPTLY. WE WILL GLADLY CORRECT ERRORS WITHIN 30 DAYS OF THE STATEMENT DATE. AFTER 30 DAYS, THE ANALYSIS IS DEEMED TO BE ACCURATE AND ADJUSTMENTS WILL NO LONGER BE PROCESSED.

GO PAPERLESS. SIGN-UP TODAY FOR FREE ONLINE CORPORATE ACCOUNT ANALYSIS STATEMENTS THAT YOU CAN ACCESS VIA PINACLE. ONLINE STATEMENTS CAN BE VIEWED SEVERAL DAYS EARLIER THAN IF THEY ARE SENT BY MAIL - WHICH IS GOOD NEWS FOR YOU AND THE ENVIRONMENT. ENROLL TODAY. FOR MORE INFORMATION, CALL TREASURY MANAGEMENT CLIENT CARE AT 1-800-669-1518 OR CONTACT YOUR TREASURY MANAGEMENT OFFICER OR SALES ASSOCIATE.



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ACCOUNT ANALYSIS STATEMENT

CLIENT NAME & ADDRESS	ACCOUNT INFORMATION	ANALYSIS PERIOD
STATE OF OHIO ODNR MINE SUBSTANCE INS FUND ATTN TREASURY SERVICES 30 E BROAD ST FL 10 COLUMBUS OH 43215	ACCOUNT 0001629970 SUMMARY TREASURY JENNIFER A JAMES OFFICER (614) 463-7335 CLIENT TMCC@pnc.com SERVICES 1-800-669-1518 BILLING CYCLE MONTHLY	12/01/2018 to 12/31/2018
		STATEMENT DATE
		JANUARY 10, 2019

CURRENT MONTHLY BALANCE & COMPENSATION			
AVERAGE LEDGER BALANCE	47,735.64	EARNINGS ALLOWANCE (1.000 %)	40.52
LESS: DEPOSIT FLOAT	25.58	TOTAL ANALYZED CHARGES	812.19
		EXCESS/(DEFICIT) FEES	771.67
AVERAGE COLLECTED BALANCE	<u>47,710.06</u>	TOTAL AMOUNT DUE	771.67
LESS: RESERVES(0.00 %)	0.00		(INVOICE)
INVESTABLE BALANCE	<u>47,710.06</u>		
COLLECTED BALANCE REQUIRED	956,288.75		
EXCESS/(DEFICIT) BALANCE	908,578.69-		

EARNINGS CREDIT RATE IS TIERED. THE HIGHEST TIER EARNINGS CREDIT RATE FOR NEXT MONTH IS: 1.000000 %

\$1177.42 IN COLLECTED BALANCE WILL PAY FOR \$1.00 IN SERVICES, BASED UPON THIS MONTH'S TIERED EARNINGS CREDIT RATE.

PAYMENT FOR THE ABOVE NOTED DEFICIENCY AMOUNT IS EXPECTED PROMPTLY UPON RECEIPT OF THE INVOICE.

SUMMARY OF ACCOUNT SERVICES

SERVICE DESCRIPTION	AFP CODE	VOLUME	UNIT PRICE	TOTAL PRICE	COLLECTED BALANCE REQUIRED
DEMAND DEPOSIT RELATED SERVICES					
ACCOUNT MAINTENANCE	01 00 00	1	5.0000	5.00	5,887.10
				<u>\$5.00</u>	<u>\$5,887.10</u>
REMOTE DEPOSIT RELATED SERVICES					
REMOTE DEPOSIT CAPTURE-TICKETS	01 02 00	1	0.5000	0.50	588.71
REMOTE DEPOSIT CHECK IMAGES	10 02 18	3	0.0300	0.09	105.97
				<u>\$0.59</u>	<u>\$694.68</u>
AUTOMATED CLEARINGHOUSE SERVICES					
ACH MONTHLY MAINTENANCE FEE	25 00 00	1	10.0000	10.00	11,774.20
ACH DEBIT/CREDIT BLOCK	25 10 52	1	5.0000	5.00	5,887.10
				<u>\$15.00</u>	<u>\$17,661.30</u>
FUNDS TRANSFER SERVICES					
FILE INITIATED DOMESTIC TRANSFER	35 01 09	6	7.2500	43.50	51,217.77
INCOMING WIRE TRANSFER	35 03 00	4	3.0000	12.00	14,129.04
				<u>\$55.50</u>	<u>\$65,346.81</u>
INFORMATION SERVICES					
PREVIOUS DAY ACCOUNT	40 02 22	26	2.5000	65.00	76,532.30
PINACLE TRANSMISSION MONTHLY FEE	40 01 10	1	100.0000	100.00	117,742.00
PREVIOUS DAY DETAIL BAI	40 99 99	3,830	0.0500	191.50	225,475.93
PINACLE MODULE FEES	40 99 99	1	10.0000	10.00	11,774.20
				<u>\$366.50</u>	<u>\$431,524.43</u>



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ACCOUNT ANALYSIS STATEMENT

CLIENT NAME & ADDRESS	ACCOUNT INFORMATION	ANALYSIS PERIOD
STATE OF OHIO ODNR MINE SUBSTANCE INS FUND ATTN TREASURY SERVICES 30 E BROAD ST FL 10 COLUMBUS OH 43215	ACCOUNT 0001629970 SUMMARY TREASURY JENNIFER A JAMES OFFICER (614) 463-7335 CLIENT TMCC@pnc.com SERVICES 1-800-669-1518 BILLING CYCLE MONTHLY	12/01/2018 to 12/31/2018
		STATEMENT DATE
		JANUARY 10, 2019

SUMMARY OF ACCOUNT SERVICES

SERVICE DESCRIPTION	AFP CODE	VOLUME	UNIT PRICE	TOTAL PRICE	COLLECTED BALANCE REQUIRED
ELECTRONIC DATA INTERCHANGE					
ORIG DATA TRANSMISSION	30 01 02	20	15.0000	300.00	353,226.00
WIRE ORIGINATED PAYMENTS	30 01 12	80	0.1200	9.60	11,303.23
EDI DISBURSEMENT MONTHLY MAINT	30 00 20	1	60.0000	60.00	70,645.20
				<u>\$369.60</u>	<u>\$435,174.43</u>
TOTAL ANALYZED CHARGES :				<u>\$812.19</u>	<u>\$956,288.75</u>



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ACCOUNT ANALYSIS STATEMENT

CLIENT NAME & ADDRESS	ACCOUNT INFORMATION	ANALYSIS PERIOD
STATE OF OHIO ODNR MINE MINE SUBSIDENCE INSURANCE FUND C/O THE TREASURER OF STATE RECONCILIATION DEPT 30 E BROAD ST FL 10 COLUMBUS OH 43215-3414	ACCOUNT 4006903911 TREASURY JENNIFER A JAMES OFFICER (614) 463-7335 CLIENT TMCC@pnc.com SERVICES 1-800-669-1518 BILLING CYCLE MONTHLY	12/01/2018 to 12/31/2018
		STATEMENT DATE
		JANUARY 10, 2019

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AVERAGE COLLECTED BALANCE	47,710.06	EXCESS/(DEFICIT) FEES	771.67-
LESS: RESERVES(0.00 %)	0.00	(TRANSFERRED TO : 0001629970)	
INVESTABLE BALANCE	47,710.06		
COLLECTED BALANCE REQUIRED	956,288.75		
EXCESS/(DEFICIT) BALANCE	908,578.69-		

PK
1/25/19

EARNINGS CREDIT RATE IS TIERED. THE HIGHEST TIER EARNINGS CREDIT RATE FOR NEXT MONTH IS: 1.000000 %

\$1177.42 IN COLLECTED BALANCE WILL PAY FOR \$1.00 IN SERVICES, BASED UPON THIS MONTH'S TIERED EARNINGS CREDIT RATE.

SUMMARY OF ACCOUNT SERVICES

SERVICE DESCRIPTION	AFP CODE	VOLUME	UNIT PRICE	TOTAL PRICE	COLLECTED BALANCE REQUIRED
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ACCOUNT MAINTENANCE	01 00 00	1	5.0000	5.00	5,887.10
				\$5.00	\$5,887.10
REMOTE DEPOSIT RELATED SERVICES					
REMOTE DEPOSIT CAPTURE-TICKETS	01 02 00	1	0.5000	0.50	588.71
REMOTE DEPOSIT CHECK IMAGES	10 02 18	3	0.0300	0.09	105.97
				\$0.59	\$694.68
AUTOMATED CLEARINGHOUSE SERVICES					
ACH MONTHLY MAINTENANCE FEE	25 00 00	1	10.0000	10.00	11,774.20
ACH DEBIT/CREDIT BLOCK	25 10 52	1	5.0000	5.00	5,887.10
				\$15.00	\$17,661.30
FUNDS TRANSFER SERVICES					
FILE INITIATED DOMESTIC TRANSFER	35 01 09	6	7.2500	43.50	51,217.77
INCOMING WIRE TRANSFER	35 03 00	4	3.0000	12.00	14,129.04
				\$55.50	\$65,346.81
INFORMATION SERVICES					
PREVIOUS DAY ACCOUNT	40 02 22	26	2.5000	65.00	76,532.30
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PREVIOUS DAY DETAIL BAI	40 99 99	3,830	0.0500	191.50	225,475.93
PINACLE MODULE FEES	40 99 99	1	10.0000	10.00	11,774.20
				\$366.50	\$431,524.43
ELECTRONIC DATA INTERCHANGE					
ORIG DATA TRANSMISSION	30 01 02	20	15.0000	300.00	353,226.00



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ACCOUNT ANALYSIS STATEMENT

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		STATEMENT DATE
		JANUARY 10, 2019

SUMMARY OF ACCOUNT SERVICES

SERVICE DESCRIPTION	AFP CODE	VOLUME	UNIT PRICE	TOTAL PRICE	COLLECTED BALANCE REQUIRED
WIRE ORIGINATED PAYMENTS	30 01 12	80	0.1200	9.60	11,303.23
EDI DISBURSEMENT MONTHLY MAINT	30 00 20	1	60.0000	60.00	70,645.20
				<u>\$369.60</u>	<u>\$435,174.43</u>
TOTAL ANALYZED CHARGES :				<u>\$812.19</u>	<u>\$956,288.75</u>



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ACCOUNT ANALYSIS STATEMENT

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		STATEMENT DATE
		JANUARY 10, 2019

YEAR-TO-DATE RELATIONSHIP SUMMARY

MONTH	ADJUSTED AVERAGE LEDGER BALANCE	ADJUSTED COLLECTED BALANCE	EARNINGS CREDIT RATE	TOTAL ACTIVITY CHARGES	COLLECTED BALANCE REQUIRED	EXCESS/(DEFICIT) BALANCE	EXCESS/(DEFICIT) FEE EQUIVALENT
JANUARY	46,992.27	44,867.98	.650000	996.60	1,805,251.21	1,760,383.23-	971.83-
FEBRUARY	102,449.67	92,318.67	.650000	916.09	1,837,209.32	1,744,890.65-	870.06-
MARCH	40,485.19	40,397.96	.650000	988.95	1,791,393.92	1,750,995.96-	966.65-
QTR TOTAL	63,309.04	59,194.87		2,901.64	1,811,284.82	1,752,089.95-	2,808.54-
APRIL	48,768.69	48,044.56	.650000	917.35	1,717,086.57	1,669,042.01-	891.68-
MAY	75,684.27	61,881.56	.650000	979.76	1,774,747.05	1,712,865.49-	945.60-
JUNE	90,027.62	90,027.62	.650000	950.73	1,779,566.92	1,689,539.30-	902.63-
QTR TOTAL	71,493.53	66,651.25		2,847.84	1,757,133.51	1,690,482.27-	2,739.91-
JULY	53,772.03	53,772.03	1.000000	1,056.27	1,243,673.43	1,189,901.40-	1,010.60-
AUGUST	118,806.97	113,711.84	1.000000	1,115.07	1,312,905.72	1,199,193.88-	1,018.49-
SEPTEMBER	39,068.87	38,347.27	1.000000	918.73	1,117,791.23	1,079,443.96-	887.21-
QTR TOTAL	70,549.29	68,610.38		3,090.07	1,224,790.13	1,156,179.75-	2,916.30-
OCTOBER	54,395.22	53,313.38	1.000000	789.90	930,044.05	876,730.67-	744.62-
NOVEMBER	81,369.18	76,433.28	1.000000	786.62	957,056.97	880,623.69-	723.80-
DECEMBER	47,735.64	47,710.06	1.000000	812.19	956,288.75	908,578.69-	771.67-
QTR TOTAL	61,166.68	59,152.24		2,388.71	947,796.59	888,644.35-	2,240.09-
YTD TOTAL	66,629.64	63,402.18	.825000	11,228.26	1,435,251.26	1,371,849.08-	10,704.84-

Board of Deposit
PNC Mine Subsidence Insurance Fund 3911 - December 2018

Bank Code	Service Code	Description	Unit Price	Total Units	Total Amount	List Price	Variance	Comments
	5 01 00 00	ACCOUNT MAINTENANCE	5	1	\$ 5.00	\$ 5.00	\$ -	
	718 25 10 52	ACH DEBIT/CREDIT BLOCK	5	1	\$ 5.00	\$ 5.00	\$ -	
	640 25 00 00	ACH MONTHLY MAINTENANCE FEE	10	1	\$ 10.00	\$ 10.00	\$ -	
	1176 00 03 71	CHARGE FOR INVOICE	0	1	\$ -	\$ -	\$ -	
	2330 30 00 20	EDI DISBURSEMENT MONTHLY MAINT	60	1	\$ 60.00	\$ 60.00	\$ -	
	2612 35 01 09	FILE INITIATED DOMESTIC TRANSFER	7.25	6	\$ 43.50	\$ 43.50	\$ -	
	2625 35 03 00	INCOMING WIRE TRANSFER	3	4	\$ 12.00	\$ 12.00	\$ -	
	970 30 01 02	ORIG DATA TRANSMISSION	15	20	\$ 300.00	\$ 300.00	\$ -	
	4059 40 99 99	PINACLE EVENT NOTIFICATION MONTH	0	1	\$ -	\$ -	\$ -	
	5346 40 99 99	PINACLE MODULE FEES	10	1	\$ 10.00	\$ 10.00	\$ -	
	903 40 01 10	PINACLE TRANSMISSION MONTHLY FEE	100	1	\$ 100.00	\$ 100.00	\$ -	
	800 40 02 22	PREVIOUS DAY ACCOUNT	2.5	26	\$ 65.00	\$ 65.00	\$ -	
	918 40 99 99	PREVIOUS DAY DETAIL BAI	0.05	3830	\$ 191.50	\$ 191.50	\$ -	
	9 01 02 00	REMOTE DEPOSIT CAPTURE-TICKETS	0.5	1	\$ 0.50	\$ 0.50	\$ -	
	111 10 02 18	REMOTE DEPOSIT CHECK IMAGES	0.03	3	\$ 0.09	\$ 0.09	\$ -	
	979 30 01 12	WIRE ORIGINATED PAYMENTS	0.12	80	\$ 9.60	\$ 9.60	\$ -	
		Total			\$ 812.19	\$ 812.19	\$ -	

Service Fee Total	\$ 812.19
Earnings Credit Allowance	\$ 40.52
Total	\$ 771.67



STATE BOARD OF DEPOSIT STATE OF OHIO

Members:

Robert Sprague, Chairman
Treasurer of State

Dave Yost
Attorney General

Keith Faber
Auditor of State

CERTIFICATION OF THE EXPENSES OF THE STATE BOARD OF DEPOSIT

In accordance with Chapter 135.02 of the Ohio Revised Code, the undersigned, Chairman and Secretary of the State Board of Deposit of the State of Ohio, hereby certifies that the necessary expenses of the Board, which represent OAKS voucher processing fees / postage [invoice # 19W0086], are \$8.17.

Robert Cole Sprague

CHAIRMAN

Stacey Cumberland

SECRETARY

February 8, 2019

DATE

**State of Ohio - Dept of Admin Services
OAKS Warrant Intrastate Invoice**

Please Remit To:
 Department of Administrative Services
 L-3686
 Columbus OH 43260-3686

Page: 1
 Invoice No: 19W0086
 Consolidated Invoice No:
 Invoice Date: 01/16/2019
 Customer Number: BDP01
 Payment Terms: NET 30
 Due Date: 02/15/2019

Bill To:
 Board of Deposits
 Board of Deposits
 30 E Broad St 9th Floor
 Columbus OH 43215

AMOUNT DUE: 8.17 USD

Make Checks Payable To: Ohio Treasurer of State

Billing Service Period: From To

For billing questions, please call 614-466-5027

To ensure proper payment processing, please be sure the invoice number is on all payments.

Line	Adj	Identifier	Description	Quantity	UOM	Unit Amt	Net Amount
Purchase Order		Contract Number		From Date	To Date		
1		REG_CKSTCK	Reg. Warrant -Check Stock Chrg	15.00	EA	0.0300	0.45
				10/01/18	12/31/18		
2		REG_ENVLOP	Reg. Warrant - Envelope Charge	15.00	EA	0.0200	0.30
				10/01/18	12/31/18		
3		REG_FULFILL	Reg. Warrant -Fulfillment Chrg	15.00	EA	0.0750	1.13
				10/01/18	12/31/18		
4		REG_POSTAGE	Reg. Warrant - Postage Fees	15.00	EA	0.3780	5.67
				10/01/18	12/31/18		
5		REG_PRESORT	Reg. Warrant - Presort Fees	15.00	EA	0.0240	0.36
				10/01/18	12/31/18		
6		REG_PRINT	Reg. Warrant - Print Charge	15.00	EA	0.0170	0.26
				10/01/18	12/31/18		

SUBTOTAL:

8.17

TOTAL AMOUNT DUE :

8.17

OAKS SUPPLIER ID: DAS01
 SUPPLIER ADDRESS CODE: 28
 ISTV XREF: DASS

State of Ohio - Dept of Admin Services
OAKS Warrant Intrastate Invoice

Please Remit To:

Department of Administrative Services
L-3686
Columbus OH 43260-3686

Page: 2
Invoice No: 19W0086
Consolidated Invoice No:
Invoice Date: 01/16/2019
Customer Number: BDP01
Payment Terms: NET 30
Due Date: 02/15/2019

Bill To:

Board of Deposits
Board of Deposits
30 E Broad St 9th Floor
Columbus OH 43215

AMOUNT DUE: 8.17 USD

Amount Remitted

Make Checks Payable To: Ohio Treasurer of State

Billing Service Period: From To

For billing questions, please call 614-466-5027

To ensure proper payment processing, please be sure the invoice number is on all payments.

Invoice Summary

SUBTOTAL of Invoice Details:

8.17

TOTAL AMOUNT DUE :

8.17

Ohio Treasurer of State
Fiscal Services
Warrant Journal Report

Report Distribution
Provided to :

Produced : Feb 1, 2019 10:10:59 AM

Filters

Business Unit : BDP01

Vendor ID :

Date Range : Between Oct 1, 2018 and Dec 31, 2018

Warrant Journal Report

Payment Date: Between Oct 1, 2018 and Dec 31, 2018

Regular Mailed Payment - Giro - EFT

Vendor	Payment Date	Reference	Message	Invoice ID	Voucher ID	Voucher Gross Amount
AUDITOR OF STATE	12/12/2018	0000521491	-	BILL248973	00001642	102.00
						0000521491 Payment amount: \$102.00
DEPARTMENT OF ADMINISTRATIVE SERVICES	12/12/2018	0000521490	-	19W0009	00001629	10.34
						0000521490 Payment amount: \$10.34
TREASURER OF STATE	12/17/2018	0000521866	-	FY19_BDP_QTR1	00001654	50,450.00
						0000521866 Payment amount: \$50,450.00

3 Regular Mailed Payment - Giro - EFT payment(s) containing 3 voucher(s) with a total value of: \$50,562.34

Warrant Journal Report

Payment Date: Between Oct 1, 2018 and Dec 31, 2018

Regular Mailed Payment - System Check

Vendor	Payment Date	Reference	Message	Invoice ID	Voucher ID	Voucher Gross Amount	
HUNTINGTON NATIONAL BANK	11/05/2018	0038725329	Account: 01891935590	008900000000049346	00001637	273.10	
		0038725329	Account: 01892412957	008900000000049416	00001640	129.57	
		0038725329	Account: 01892413105	008900000000049417	00001638	151.55	
		0038725329	Account: 01892413134	008900000000049418	00001639	147.10	
	0038725329 Payment amount: \$701.32						
	12/12/2018	0038838858	Account: 01891935590	008900000000049757	00001648	258.46	
		0038838858	Account: 01892412957	008900000000049829	00001647	114.88	
		0038838858	Account: 01892413105	008900000000049830	00001646	136.15	
		0038838858	Account: 01892413134	008900000000049831	00001645	131.84	
	0038838858 Payment amount: \$641.33						
	JP MORGAN CHASE & CO	11/05/2018	0038725428	Account: 001000000000704346915	000100000001519024	00001641	446.02
			0038725428 Payment amount: \$446.02				
12/12/2018		0038838934	Account: 001000000000704346915	000100000001520410	00001644	428.99	
		0038838934 Payment amount: \$428.99					
KEYBANK NATIONAL ASSOCIATION	11/05/2018	0038725478	Account: 0900160	0001EW17L000	00001634	8,543.73	
		0038725478 Payment amount: \$8,543.73					
		0038725479	Attn: Dept. AA 101 Account: 149681006396	18080000912	00001633	7,281.55	
		0038725479 Payment amount: \$7,281.55					
	12/12/2018	0038725481	Attn: Catherine Rope Account: 14511001050	18080000896	00001635	37,222.50	
		0038725481	Attn: Catherine Rope Account: 359681427431	18080001225	00001636	13.00	
		0038725481 Payment amount: \$37,235.50					
		0038838962	Account: 0900160	0001FWWSF000	00001651	7,568.47	
0038838962 Payment amount: \$7,568.47							
		0038838963	Attn: Dept AA 101 Account: 149681006396	18090001206	00001652	4,706.41	

Warrant Journal Report

Payment Date: Between Oct 1, 2018 and Dec 31, 2018

Regular Mailed Payment - System Check

Vendor	Payment Date	Reference	Message	Invoice ID	Voucher ID	Voucher Gross Amount
KEYBANK NATIONAL ASSOCIATION	12/12/2018				0038838963	Payment amount: \$4,706.41
		0038838964	Attn: Catherine Rope Account: 14511001050	18090001180	00001650	34,775.75
		0038838964	Attn: Catherine Rope Account: 359681427431	18090001509	00001649	13.00
					0038838964	Payment amount: \$34,788.75
PNC BANK NA	10/01/2018	0038542721	Account: 0001629970	0718717726	00001628	1,010.60
					0038542721	Payment amount: \$1,010.60
	11/13/2018	0038743855	Account: 0001629970	0918718006	00001643	1,018.49
					0038743855	Payment amount: \$1,018.49
REA & ASSOCIATES INC	11/05/2018	0038726079	Account: 31C04FRAN-AI118	1155667	00001631	816.00
		0038726079	Account: 31C04FRAN-AI118	1156732	00001630	6,732.00
					0038726079	Payment amount: \$7,548.00
	12/12/2018	0038839264	Account: 31C04FRAN-AI118	1161374	00001653	1,938.00
				0038839264	Payment amount: \$1,938.00	
US BANK NA	11/05/2018	0038726551	Attn: CM 9581 Account: 1-301-2139-9971	AUGUST 2018	00001632	1,063.99
					0038726551	Payment amount: \$1,063.99

15 Regular Mailed Payment - System Check payment(s) containing 24 voucher(s) with a total value of: \$114,921.15



STATE BOARD OF DEPOSIT STATE OF OHIO

Members:

Robert Sprague, Chairman
Treasurer of State

Dave Yost
Attorney General

Keith Faber
Auditor of State

CERTIFICATION OF THE EXPENSES OF THE STATE BOARD OF DEPOSIT

In accordance with Chapter 135.02 of the Ohio Revised Code, the undersigned, Chairman and Secretary of the State Board of Deposit of the State of Ohio, hereby certifies that the necessary expenses of the Board, which represent Treasurer of State Interactive Voice Recognition Project fees for October 2018 – December 2018, are \$50,700.00.

Robert Cole Sprague

CHAIRMAN

Stacey Lumberlander

SECRETARY

February 8, 2019

DATE

Interactive Voice Recognition Project
 2nd Quarter (October 2018 through December 2018)
 Fiscal Year 2019
 Invoice Number: FY19_BDP_QTR2

Personal Services		Amount
	October 2018	
	IT Services - FTE	9,000.00
	Revenue Management - FTE	7,500.00
	November 2018	
	IT Services - FTE	9,000.00
	Revenue Management - FTE	7,500.00
	December 2018	
	IT Services - FTE	9,000.00
	Revenue Management - FTE	7,500.00
	Personal Services Total	49,500.00

VoIP Connections		Voucher	Amount
US Bank (VoIP Street Inc.)	10/15/2018	00024223	200.00
US Bank (VoIP Street Inc.)	11/06/2018	00024358	1,000.00
	VoIP Connection Total		1,200.00
		Invoice Total	50,700.00



JOSH MANDEL
STATE TREASURER OF OHIO

RESOLUTION - 05

December 11, 2015

WHEREAS, on July 30, 2007, the State Board of Deposit adopted a resolution authorizing the Treasurer of State's recommendation to phase-out the services provided by First Data Corporation.

WHEREAS, on July 30, 2007, the State Board of Deposit adopted a resolution authorizing the Treasurer of State to approve and implement a set of recommendations made by the Treasury's Chief Information Officer regarding operational efficiencies and cost savings to the Interactive Voice Response system.

WHEREAS, the Treasurer of State has presented recommendations to replace the previously authorized recommendations to the Interactive Voice Response system with the attached recommendations, the Interactive Voice Response System Overview and Recommended Upgrades, to reflect operational upgrades and ongoing system maintenance.

THEREFORE, BE IT RESOLVED BY THE STATE BOARD OF DEPOSIT:

The Board of Deposit hereby gives the Treasurer of State the authority to implement the attached recommendations, the Interactive Voice Response System Overview and Recommended Upgrades, made by the Treasurer's Director of Information Technology regarding operational upgrades and ongoing system maintenance.

Josh Mandel, Chairman
Treasurer of State

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Mike DeWine
Attorney General

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Dave Yost
Auditor of State

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Interactive Voice Response System Overview and Recommended Upgrades

The following is a review of the present service the Ohio Treasurer of State (TOS) provides to the Ohio Board of Deposit (BOD), which allows corporate taxpayers to make electronic payments of taxes via an interactive voice response (IVR) system. It also includes an action plan to refresh and upgrade the technology used to provide these services based on a need identified during a risk assessment against the current solution. The recommended plan will increase reliability, provide multi-site redundancy, and remove unsupported legacy third party software.

The automated process has proven to be highly successful. The IVR system has become a critical operational component in collecting business tax revenue. In the last biennium, the IVR system collected over \$5,000,000,000 through more than 135,000 transactions. All of this was accomplished without human intervention and the funds were reliably deposited and reconciled with the state depository.

Seven years ago, the BOD purchased the technology necessary to implement this solution. Since then, TOS has performed the maintenance, support, and continued customization required to keep the IVR properly functioning and reflective of changing tax code.

However, the system has not been upgraded and is still using the original core technology. This has created a significant operational risk due to several factors: the servers are over seven years old; the company that created the core software is no longer in business, which means TOS is no longer receiving updates or security patches, the absence of which presents security risks; and there are no "fail-over" capabilities. This situation creates a high likelihood of a complete loss of the IVR system, which would significantly delay businesses from making tax payments until TOS could build a new system. Before this happens, TOS would like the BOD to purchase the necessary hardware, software, and consultant expertise necessary to build a modern, redundant IVR system. The cost of this build is \$55,874.00 in software customization and consultant costs and \$34,586.35 for hardware costs. The total cost of creating a modern, reliable IVR system is \$90,460.35.

Current Technological Overview

➤ Service Provider:

- **VoipStreet** – This telecom company hosts the phone number and provides the sip trunk.

➤ Hardware:

- **Gateway 960** – This server was originally manufactured in 2002. This server is currently eight years past IT industry standard lifecycle on servers (which is five years).
- **Dell Optiplex 780** – This replacement machine was put in place as a stopgap when the old server had a catastrophic failure. This current machine was originally manufactured in 2007, which is three years past the standard replacement cycle for desktops.
- **IBM AS400** – Handles the actual processing of payments and lookups of relevant data.

➤ **Software:**

- **Asterisks** – This is the software suite that hosts the call tree and the voice prompts customers hear when they call in.
- **FreePBX** – Module in Asterisks that specifically handles the call center intelligence.
- **Trixbox** – Software that allows the Linux based Asterisks and FreePBX software solutions to communicate with the Windows based Tax IVR Service.
- **Tax IVR Service** – Software developed in-house by TOS staff that takes the results of the customer input via the IVR, or alternatively Tax Manager, and communicates with the AS400.
- **Bria** - Desktop Soft Phone software that resides on the computers of TOS staff who answer the call center number for this service in the event that human interaction is needed during a transaction.
- **Tax Manager** – .net desktop application built by TOS staff that connects to the Tax IVR Service; this communicates with the AS400 for verification and submission of payments. This is used only if a customer fails out of the call tree and talks to an agent.

➤ **Summary:**

The cumulative platform that enables automated phone payments for private entities' tax payments has reached the end of its useful lifecycle. The hardware and software that host this solution are well past their refresh period. In fact, one of the servers is two cycles past industry standard for server hardware replacements. We have already experienced a critical hardware failure that resulted in moving a portion of this solution from a server platform to a desktop platform. We are now starting to see a higher rate of failures on the other server that host this solution as well.

Future Technical Overview:

➤ **Service Provider:**

- **VoipStreet** – Will continue to be the telecom company that hosts the phone number and provides the sip trunk. They have proven to be a reliable company that is extremely cost effective.

➤ **Hardware:**

- **ShoreTel Voice SG-30** – Dedicated switches and controller module for the new phone system integration.
- **ShoreTel Ingate SIParator 21** – Handles the integration of the connection from Voip Street to the ShoreTel software.
- **IBM AS400** – Handles the actual processing of payments and lookups of relevant data.

➤ **Software:**

- **ShoreTel 14.2 Software** – The total functionality as it pertains to call routing, phone tree, voice recordings, and call center technology.
- **Tax IVR Service v2** – In-house software that integrates all the software and hardware of this solution.

- **Tax Manager v2-** .net desktop application built in-house, which connects to Windows services (Tax IVR Service) – this communicates for verification and submission of payments. Only used if customer fails out of call tree and talks to an agent.

➤ **Summary:**

With this upgrade/refresh, we are consolidating many of the legacy systems to one general service provider. With ShoreTel, we are replacing Asterisks, FreePBX, and Trixbox. This will be hosted on a combination of dedicated physical appliances and virtual servers that reside in a TOS pre-existing virtual environment. This allows us to keep redundant dedicated hardware where technology dictates while leveraging the resilience of a virtual environment where possible. With this migration to a new environment, TOS will be able to create a fully redundant solution. The primary site for this hardware will be at the State of Ohio Computing Center and a second site will be at our Disaster Recovery location out in Westerville, which would allow us to failover in the event of a disaster. This solution also will be supported completely via a maintenance contract with the hardware and software vendor, which support we are lacking today in our existing solution. In addition, we will use this opportunity to rewrite completely the Tax IVR Service along with the desktop application, Tax Manager.

Risk:

When evaluating risk as it pertains to systems, we look at several different factors. Some of these factors are supportability, survivability, standardization, and health. Outlined below is an evaluation of our current IVR solution against the risk parameters stated above.

- **Health** – When looking at the overall health of the IVR system we have a couple of areas of concern. The area with the highest level of risk is the Trixbox component. The company that sold us this product seven years ago has since gone out of business. Not only are we not getting updates for this product, which keep us secure, but also new versions have stopped, which would allow us to get the newer, supported operating systems. If the Host server fails, installing and configuring this product to work again has a low estimated rate of success. The next area of concern is the physical hardware that houses the IVR. Asterisks, FreePBX, and Trixbox reside on physical hardware that is over thirteen years old. We have attempted to virtualize this server in the past, but because of the software limitations virtualization was not possible. The other server is sitting on a standard business desktop that runs Windows XP and is eight years old.
- **Supportability** – Of the software that is utilized for this service, the Asterisks solution and our in-house software are the only pieces for which the TOS has active maintenance contracts. As the company that created Trixbox is out of business, we no longer have support for this portion of the solution. In the event of an application failure, we would not have access to outside resources to help resolve any issue as it pertains to Trixbox. With the limitations to the Trixbox software, upgrading the peripheral servers operating system past Windows XP has not been an option. That operating system is no longer being supported by Microsoft and has reached end of life.
- **Survivability** – Survivability can be measured in multiple ways, but for this evaluation we looked at a site failure and a system or hardware failure. This environment does not have any equipment or ability to be revived at our DR site. Along with our limited ability to bring up this

system at another site, we also do not have the ability to restore the entire environment to different hardware at the same site. This comes back to lack of software support and advance customizations that were performed. The final area of concern surrounding survivability is the architecture of the overall system. If any of the components listed above fail for any reason, the main phone line will ring busy and cease to accept payments in an automated fashion.

- Standardization – Currently there are three different third party applications, two different server platforms, and two custom written applications that are needed for this system to work. As stated above, all aspects of this system need to be running at all times or the entire system stops working. Because of this, there are concerns over versioning and interoperability between applications. This has already presented itself as a problem in reference to updating operating systems, applications, and firmware.

Summary:

Since its inception of seven years ago, the IVR system has become a critical application for businesses to make tax payments. During the last seven years, TOS has fully supported and maintained the IVR system, which has collected over \$10,000,000,000 via more than 100,000 transactions. However, the system is at a high risk of failure because of the legacy hardware and software. As a result of some of the primary software companies going out of business, many pieces of the IVR application have known security vulnerabilities. An IVR system failure would result in a major impact on tax collection that would persist until a new system could be built.



STATE BOARD OF DEPOSIT

STATE OF OHIO

Members:
Richard Cordray, Chairman
Treasurer of State

Marc Dann
Attorney General

Mary Taylor
Auditor of State

RESOLUTION

July 30, 2007

The Board of Deposit hereby approves the Treasurer of State's recommendation that the Board of Deposit proceed expeditiously to phase-out the services provided by First Data Corporation, which are governed by the Banking Services Agreement dated July 3, 2006 with Key Bank, N.A. The Board of Deposit further gives the Treasurer of State the authority to approve and implement the attached recommendations made by the Treasury's Chief Information Officer regarding operational efficiencies and cost savings.

Richard Cordray, Chairman
Treasurer of State

Handwritten signature of Richard Cordray in cursive, written over a horizontal line.

Marc Dann
Attorney General

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Mary Taylor
Auditor of State

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RICHARD CORDRAY

OFFICE OF THE TREASURER OF THE STATE



First Data Corporation Service Analysis & Recommendations

Michael Sawczyn

Chief Information Officer for Ohio Treasurer of State Richard Cordray

July 19, 2007

The following analysis details the present services being provided to the Ohio Board of Deposit by First Data Corporation (FDC) to assist corporate taxpayers in the electronic payment of taxes via FDC's Interactive voice response (IVR) system. It also includes a set of alternatives and recommendations to replace the current FDC services with a solution that will be created and managed by the Ohio Treasury. The recommended alternative would increase the level of service to Ohio corporations while reducing costs by \$146,000 annually.

Executive Summary

The following analysis details the present services being provided to the Ohio Board of Deposit by First Data Corporation (FDC) to assist corporate taxpayers in the electronic payment of taxes via FDC's interactive voice response (IVR) system. It also includes a set of alternatives and recommendations to replace the current FDC services with a solution that will be created and managed by the Ohio Treasury. The recommended alternative would increase the level of service to Ohio corporations while reducing costs by \$146,000 annually.

The recommendations discuss the replacement of the FDC service with two systems that would be hosted by the Treasury. The first would be a replacement IVR system based on open-source telephony solutions, which would duplicate the functionality of the FDC service in capturing payment information by telephone and feed it into the current ACH payment stream used at the Treasury. The second would be a web offering that would allow payments to be submitted by website as well as a method of allowing corporations to set up and modify the details of their pay-by-phone accounts. Both systems can be created and maintained by the Treasury for significantly less cost than the annual payments to FDC for the IVR service alone.

Current FDC Services

FDC contracts through Key Bank to provide a means for corporate taxpayers to electronically pay taxes. Eighteen tax types are currently supported, as follows:

- Regular Withholding Tax
- Quarterly Withholding Reconciliation
- Corporate Franchise Estimated Tax (four quarters)
- Regular Sales Tax
- Direct Payment Permit
- Seller's Use Tax
- Consumer's Use Tax
- Motor Vehicle Fuel Tax
- Regular Public Utilities Excise Tax
- Premium Insurance
- Municipal Income Tax (four quarters)
- Iolta

An additional fourteen tax types are not collected by FDC. They are:

- Motor Vehicle Sales Tax
- Boats/Motors Sales Tax
- Motor Fuel Use Tax
- International Fuel Tax Agreement payments
- Wine Gallonage

- Beer Gallonage
- Cigarette Tax
- Cigarette Floor Tax
- Resort Tax
- Severance Tax
- Dealers in Intangibles Tax
- Tire Tax
- Estate Tax
- Reparations Rotary Tax

While the system FDC uses is generically termed an interactive voice response (IVR) system, it does not use voice recognition to interact with the taxpayer. When the taxpayer calls the system, a pre-recorded announcement gives instructions indicating that the taxpayer should use their touchtone pad to enter their taxpayer id, a PIN, the tax they are paying and the amount. Other information, such as when the payment should be made, is also collected and an ACH debit transaction is produced for the appropriate date to transfer monies from the taxpayer's pre-registered bank account to the appropriate state account.

Review of the billing statements for FDC services from June, 2004 through May, 2007 show that an average of \$30,320 per month is spent on the collection of these taxes, with approximately \$1,180 of this amount being pass-through bank fees for the ACH debit and the remaining \$29,140 per month consisting of processing costs paid directly to FDC.

Breakdowns of the costs are as follows, with the pass-through bank costs shown in italic:

Item description	Average number	Cost
IVR call processing (by customer service)	422	844
IVR call processing (electronic)	20,801	21,841
IVR call processing (electronic - hang-up)	275	193
Status inquiries (by customer service)	307	614
Payment cancellation requests (by customer service)	61	122
New taxpayer accounts created (electronic)	83	42
Taxpayer data changes (by customer service)	2	7
Taxpayer data changes (electronic)	89	44
Taxpayer data deletion requests (by customer service)	13	43
Taxpayer data storage	19,782	4,946
<i>ACH files sent to bank</i>	24	122
<i>ACH debit records sent to bank</i>	21,163	1,058
<i>ACH debit records sent to bank - surcharge</i>	21,163	212
Miscellaneous charges		232
Total		\$30,320

An average of 805 calls are handled by customer service representatives each month, each call lasting approximately 2 minutes, for an average total of 23.7 man-hours per month of customer service. Data input calls lasted an average of 3 minutes each, totaling to an average of 62,400 call-minutes per month.

ACH transactions are made at Key Bank and the activity reports sent to the Treasury, which are then balanced against the FDC activity reports and the money recorded appropriately.

Corporations have the option to pay some of these taxes via the Ohio Business Gateway (OBG) as well. OBG currently collects regular withholding, regular sales and municipal income taxes, with an average transaction volume of approximately 41,000 transactions per month on these tax types. Monthly bank processing charges for this volume average $\$2,050 + \$110 = \$2,160$ at \$.05 per ACH transaction plus \$5 per daily file.

Analysis and Recommendations

Approximately \$350,000 is being spent annually to FDC above and beyond the bank charges for the collection and processing of ACH payments from corporate taxpayers. The technology and infrastructure used to provide this service is significantly less expensive than this and can be replicated within the Treasury to provide the same or greater level of service.

When considering replacing FDC's services with an in-house structure, both the customer service aspect as well as the technology must be addressed.

Customer Service

The additional customer service load that would be undertaken by the Treasury does not appear to be prohibitive, but still must be taken into account. According to billing reports from FDC, approximately 24 man-hours per month would be added to the call volume for support, but we should expect this to rise in the early days of the transition due both to issues with the new system that would be put in place (more calls) and to the Treasury staff's lack of knowledge of the new system (longer calls).

Handling customer service calls is a task that is currently distributed throughout the various departments of the Treasury, with each department handling calls appropriate to their area. The staff handling question or problem calls do not rest and wait for the phone to ring; rather, they have other duties which are essentially interrupted by the need to handle calls from outside parties.

The addition of the IVR call volume would cause further disruption on two fronts. As mentioned above, staff would experience both a larger-than-average call volume (while taxpayers get accustomed to the new system) and a longer-than-average call length (while staff gets accustomed to their new duties). In addition, the extra calls would cause a greater number of task breaks, increasing the length of time for current duties to be accomplished.

Two options are available to handle the increased external customer service load: a staff increase or a redistribution of workload. Of the two, the least disruptive and fastest to

implement would be a staff increase of one additional FTE, which ideally would be split into the conversion of two part-time employees into full-time employees. The change in status from part-time to full-time would be superior to hiring a new employee since it would significantly reduce training time and costs. This would produce the shortest learning curve and quickest ability to provide a satisfactory level of customer service while still maintaining the quality and timeliness of current Treasury operational processing. The alternative, redistributing the workload, would involve the creation of a dedicated customer service center, which would require approximately six to twelve months of planning and training along with substantive disruption to the Treasury's workflow during its implementation.

Addition of the one total Revenue Management FTE performing these duties is estimated at \$49,000 + 32% load for a total of \$64,700 per year.

IVR Technology

Telephony technology is currently experiencing a growth spurt, with a number of excellent systems available as both commercial and open-source products. Starting in the early 1990s, the growth in this area of information technology has outpaced the growth in virtually every other computer science field.

One particularly attractive telephony system is available as an open-source project: Asterisk (<http://www.asterisk.org>).

The Asterisk project was started in 1999 by the founder of Digium Corporation and is currently supported on a fee basis by that company. The product itself is free and open-source; it and its source code can be downloaded from the internet and used in any setting without payment. Online support is available for free with an extensive knowledge base and volumes of documentation, or users may opt for paid support directly from Digium. Digium also sells hardware for use with Asterisk allowing the hosting computer to hook into standard analog and digital telephone systems, and the system natively supports Voice-Over-IP (VOIP) for secure access to a VOIP provider.

The system will run on hardware currently available and sitting idle at the Treasury, and will support the IVR activities needed for an FDC replacement. Essentially, the hardware and software can be acquired at a zero dollar cost.

This is not to say that the creation of the system would, however, be a zero cost proposition. Both development and maintenance would be required.

Development costs would center on staff training in telephony technology and interfacing the IVR system with the Treasury's enterprise computer system. The integration would hook into the current ACH processing that is being done for Repairs Rotary and Boat & Motors payments, providing some economies of scale. Development, configuration and testing time is estimated to take 4 - 6 weeks.

Maintenance activities would include operating system and Asterisk installation and configuration, system security creation and monitoring, backups, redundancy, disaster recovery and contingency planning and implementation.

The total IT added workload would amount to approximately one FTE, and is estimated to add \$90,000 + 32% load for a total of \$118,800.

To connect the IVR system with the telephone network, it will need to integrate with a telephone provider. Pricing ranges from \$6 to \$25 per month per line for VOIP, so with ten lines (allowing for ten simultaneous calls into the IVR), the high end would be \$250 per month. AT&T can provide this service, as can Verizon and a large number of other, smaller providers, some of which are Ohio companies. No additional wiring or other infrastructure costs would be needed to implement the VOIP solution.

As an additional bonus, bringing this system into the Treasury would provide a self-service function for taxpayers to enter and update their demographic and banking information. A secure website would be created that would allow the entry of data identifying the taxpayer (e.g., corporation tax id, bank account number, etc.). The Treasury would securely store that data in encrypted form on its network and use it to route the payments and payment information taken in by the IVR system.

When configuring the IVR system to accept payments currently handled by FDC, it is also suggested that the means be added to accept Reparatons Rotary and Boats & Motors payments, providing an increased level of service and an alternative mechanism for rural areas to electronically pay into the Treasury.

Moving Forward: Alternatives

Three alternative plans were investigated during the research for this project.

The first would be to simply **do nothing**. This is the baseline alternative and should always be considered. Costs per year (minus banking fees) would continue to be approximately \$350,000.

The second alternative would be to **move to a different provider**. Other companies provide this same service, and costs for these services are broken down either as per-transaction or a flat percentage for all monies collected (the latter appears to be more common).

To use a representative example, Franklin County's IVR provider charges 7.2% of the total amount collected per month. Taking April, 2007 as an example, the charges for the \$306,853,085 collected would amount to \$22,093,422 *on a monthly basis*. Using the percentage-transferred model, in order to bring the costs to a comparable level with FDC's pricing the overhead charge would have to be brought down to 0.0099%, which appears highly unlikely.

The third, and recommended, alternative is to **move the IVR function from FDC to the Treasury**. Costs for this proposal

- would retain the approximately \$1,180 per month in banking charges for the ACH transactions
- add an additional \$250 (approx.) for VOIP phone connections, and
- add approximately \$16,700 for staff

The cost total for this alternative would amount to \$18,140 per month for a total annual cost of \$217,680, a savings of \$146,160. Additional opportunities also exist for expansion