Post-Election Audit

February 25, 2016

Room 357, City-County Building

Madison, WI

Debriefing Report

March 2, 2016

David Spies, Lead Auditor

Jon Becker, Auditor

Anne Habel, Auditor

With

Addendum

March 10, 2016

Post-Election Audit (Ballots), City of Middleton, Wards 1-4, 9, 19, March 10, 2016 Audit

Debriefing Report

March 15, 2016

David Spies, Lead Auditor

Jon Becker, Auditor

Middleton City Hall

Middleton, WI

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Overall, the February 25, 2016 Post-Election Audit went well.

The two wards randomly selected for audit include:

- City of Madison, Ward 98
- City of Middleton, Wards 1-4, 9, 19

Originally, the process determined 2 individual wards (City of Madison Ward 98, City of Middleton Ward 4), but when the auditors received the results from the County Clerk, it was realized that public results were posted according to reporting location, which meant City of Middleton required audit of Wards 1-4, 9, 19.

<u>Audit Preparation Timeline:</u>

- **2:00 pm – 2:30 pm 12/22/15:** Initial Post-Election Audit Planning Meeting with County Clerk
- **11:00 am – 2:00 pm 1/8/16:** Development of Post-Election Audit Procedure (Research)
- **9:30 am – 11:30 am 1/25/16:** Development of Post-Election Audit Procedure (paperwork/process)
- **11:30 am – 12:30 pm 1/25/16:** Post-Election Audit Planning Meeting with County Clerk
- **12:00 pm – 4:00 pm 1/28/16:** Working with Dummy Sandbox Election image files (April 2015) in prep of February 2016 Post Election Audit
- **9:00 am – 2:00 pm 2/2/16:** Working with Dummy Sandbox Election image files (April 2015) in prep of February 2016 Post Election Audit
- **4:00 pm – 9:00 pm 2/2/16:** Working with Dummy Sandbox Election image files (April 2015) in prep of February 2016 Post Election Audit
- **9:00 am – 12:00 pm 2/3/16:** Working with Dummy Sandbox Election image files (April 2015) in prep of February 2016 Post Election Audit
- **7:00 pm – 10:00 pm 2/3/16:** Working with Dummy Sandbox Election image files (April 2015) in prep of February 2016 Post Election Audit
- **6:00 pm – 8:00 pm 2/4/16:** Working with Dummy Sandbox Election image files (April 2015) in prep of February 2016 Post Election Audit
- **9:00 am – 10:00 am 2/10/16:** Reserving audit room/AV needs; Contacting February 2016 Post Election Audit personnel
- **1:30 pm – 5:00 pm 2/10/16:** Working with Dummy Sandbox Election image files (April 2015) in prep of February 2016 Post Election Audit
- **4:00 pm – 5:00 pm 2/11/16:** Follow Up with February 2016 Post Election Audit personnel
- **8:00 pm – 9:00 pm 2/14/16:** February 2016 Post Election Audit Paperwork Preparation
- **8:00 pm – 9:30 pm 2/21/16:** Working with Dummy Sandbox Election image files to generate Audit Slideshow presentation
- **3:00 pm – 3:30 pm 2/22/16:** Follow up with County Clerk - AV Needs/Parking for Auditors

Audit Timeline (verifying Chain of Custody):

- **11:00 a.m. 2/24/16**: Chain of Custody Seal Number 5843296 was affixed by the County Clerk to a Red County Results Security Bag containing additional seals and the memory stick including results for the above wards. Proper documentation was completed at that time, establishing David Spies with chain-of-custody. Dane County laptop was also provided for audit by County Clerk.
- **11:15 a.m. -1:00 p.m. 2/24/16**: David Spies brought all materials to Room 357 (room of 2/25/16 audit) to troubleshoot technology (projector, computer, 'sandbox' slideshow presentation) and to verify laptop had IrfanView and 7-Zip installed. IrfanView and 7-Zip did not appear to be installed, so, logging on with a Dane County Guest connection, David Spies downloaded IrfanView and 7-Zip during this period.
- **1:00 p.m.-1:40 p.m. 2/24/16**: David Spies made auditor copies of tally sheets for the next day audit (FedEx Office) and went home to begin extracting files.
- **1:40 p.m. 2/24/16**: David Spies broke Seal # 5843296 from Security Bag to access memory stick in order to unzip files and create presentation. It was determined at this time that somehow the laptop security did not allow IrfanView to be installed on the County laptop. As there was no way to download IrfanView from the current location, the decision was made to use a personal computer with IrfanView installed but retain all information on the memory stick.
- **1:40 p.m.- 7:40 p.m. 2/24/16**: File Extraction/Slideshow preparation (Madison Ward 98)
- **7:40 p.m. – 10:30 p.m. 2/24/16**: Dinner break; Timeout to rest eyes
- **10:30 p.m. 2/24/16 – 3:30 a.m. 2/25/16**: File Extraction (Middleton Wards 1-4, 9, 19; computer crash)
- **3:30 a.m. – 6:00 a.m. 2/25/16**: Sleep break; resolved computer crash at 6:00 a.m.
- **6:00 a.m. – 8:00 a.m. 2/25/16**: File Extraction (Middleton Wards 1-4, 9, 19*; this is likely where human error came into play.*) Final review and gather materials.
- **8:23 a.m. 2/25/16**: Memory Stick sealed in Red Security Bag with Seal #5843212 for transport to Audit.
- **9:30 a.m. 2/25/16:** Arrived at Room 357 to set up audit with Jon Becker and Anne Habel.
- **9:45 a.m. 2/25/16:** Seal #5843212 broken (witnessed by Becker and Habel) and memory stick accessed for audit.
- **10:00 a.m.– 2:00 p.m. 2/25/16**: Conduct Post Election Audit of 2.16.16 Election in Room 357 City-County Building with Jon Becker and Anne Habel. Memory Stick sealed post audit in Red Security Bag with Seal #1952678 in presence of Jon Becker and Anne Habel.
- **2:15 p.m. – 2/25/16:** Tally Sheets, Chain of Custody Checklist, Red Security Bag, and Laptop returned to County Clerk.

Results of Post-Election Audit, 2/25/16

City of Madison, Ward 98

Wisconsin Supreme Court Primary

Post-Election Audit Results: (432 total votes)

Candidate	Vote Tally
Rebecca G. Bradley	93
Joanne F. Kloppenburg	304
Joe Donald	34
*Undetermined	1
Write-In	0

*Undetermined: ballots which the auditors could not determine intent

Publicly Reported Results provided by County Clerk: (430 total votes)

Candidate	Tally
Rebecca G. Bradley	93
Joanne F. Kloppenburg	303
Joe Donald	34

City of Middleton, Wards 1-4, 9, 19

Wisconsin Supreme Court Primary

**Post-Election Audit Results: (813 total votes)

Candidate	Vote Tally	
Rebecca G. Bradley	165	
Joanne F. Kloppenburg	592	
Joe Donald	56	
*Undetermined	0	
Write-In	0	

*Undetermined: ballots which the auditors could not determine intent

Publicly Reported Results provided by County Clerk: (820 total votes)

Candidate	Tally
Rebecca G. Bradley	168
Joanne F. Kloppenburg	596
Joe Donald	56

**The discrepancy between the Post-Election Audit Results and the Publicly Reported Results provided by County Clerk is most likely due to human error by auditors extracting files late at night after resolving a computer crash. The image file extraction issue must be resolved before future audits.

Issues with the Audit

In the image files presented for audit, each ballot consists of 2 single image bitmap (pbm) files, 1 for the front, 1 for the rear. Each file is separately zipped. This results in double the number of files than ballots cast in the machine.

These files are not in logical sub-directories. This further obscures unzipping if done manually.

To unzip each file individually is time and cost prohibitive. On the day proceeding the audit, it took 13 hours to unzip these files manually, and it resulted in a computer crash and human error omitting 14 ballot files (7 ballots) from extraction/inclusion in the final audit in the Middleton Ward. (The Madison Ward, roughly 50% smaller and converted earlier in the day on fresh eyes, had no issues.)

At present, there is no way to automatically unzip all files and keep them associated with their file number. Perhaps Dane County Information Technology might have a way to do this; it is sincerely hoped that this can be remedied so that these files can be converted accurately and in a reasonable time frame.

The original source image files are bitmap files of a very small file size (<1MB in general) which do not gain much in the way of compression when zipped. Five thousand image files of this size would take up less than 5GB as unzipped files. The zip process also does not add any encryption for file security. It seems unzipped files would be faster to work with, if the original source files can be provided this way.

In looking ahead to April 2016 and November 2016 where turnout is expected to be significantly larger, it is this process of unzipping files which is the greatest part of the process, and which, if done individually, poses the greatest opportunity for human error.

The audit files were needed to be taken offsite for conversion, not ideal for a transparent audit. Also, the County Clerk required us to use IrfanView to create the Slideshow presentation. When the lead auditor received the county laptop, it did not have a version of IrfanView installed. The software was installed in the audit room during the tech dress rehearsal for the audit the previous day. When the laptop arrived home, the software did not appear on the laptop. This required the auditor to use a personal computer with a copy of IrfanView installed; this is also not ideal for a transparent audit.

Ideally, all work should be done in the City-County Building, in the presence of a minimum of 2 audit personnel at all times, using only County equipment, and seals with Chain-of-Custody paperwork revised for this procedural change.

It is anticipated that once the extraction process is resolved, the audit should be reasonably clear and time involved will be significantly reduced. It is also anticipated that once procedure is worked out that other auditor staff should be able to cycle into the process rather easily.

Action Plan:

- Scott McDonnell should facilitate a meeting with Dane County Information Technology and David Spies to review the process to determine any ways to expedite the extraction process. Scott should provide to IT and David a 'sandbox' similar to the one used prior to the February 2016 election in order to determine how best to extract files.
- Once a process to expedite extraction is identified, tested, and determined to be effective, David Spies should revise the procedure manual and paperwork reflecting suggestions made by auditors during the February 25, 2016 audit as well as changes to the process listed above.
- David Spies should develop a checklist for the actual process of the audit as well as an instructional handout for the auditors to clearly state the procedures and roles each auditor follows in the audit.
- Depending upon how long it will take to extract files, it might be necessary to schedule the April 2016 audit further away from the actual election than the schedule used in February 2016.
- David Spies needs to schedule a date and room for the April 2016 Post Election Audit, secure audit staff and materials, and arrange for parking for auditors on the days of the audit.

Addendum:

- Dane County Post-Election Audit Checklist (Electronic Voting Machine Digital Images)
- Dane County Post-Election Audit Tally Sheet (Electronic Voting Machine Digital Images)
- Determining Random Selection of Wards for Post-Election Audit
- Post-Election Audit Staff Timesheet, February 25, 2016 Audit

Addendum (3/15/16)

Post-Election Audit (Ballots), City of Middleton, Wards 1-4, 9, 19, March 10, 2016 Audit

Overall, the February 25, 2016 Post-Election Audit went well.

The two wards randomly selected for audit include:
- City of Madison, Ward 98
- City of Middleton, Wards 1-4, 9, 19

Originally, the process determined 2 individual wards (City of Madison Ward 98, City of Middleton Ward 4), but when the auditors received the results from the County Clerk, it was realized that public results were posted according to reporting location, which meant City of Middleton required audit of Wards 1-4, 9, 19.

Results from City of Madison, Ward 98 Post-Election Audit confirmed the publicly reported results.

A discrepancy of 7 votes was observed in the electronic voter machine images from the publicly reported results in the City of Middleton, Wards 1-4, 9, 19 Post-Election Audit on February 25, 2016. Although the discrepancy between the Post-Election Audit Results and the Publicly Reported Results provided by County Clerk was most likely due to human error by the lead auditor extracting files late at night after resolving a computer crash, auditors and the County Clerk wished to investigate further.

Auditors were granted permission by County Clerk Scott McDonnell to audit paper ballots for City of Middleton, Wards 1-4, 9, 19 to determine accuracy of machine totals.

Auditors David Spies (Lead Auditor) and Jon Becker from the February 25, 2016 audit went to Middleton City Hall on March 10, 2016 to conduct an audit of paper ballots for City of Middleton, Wards 1-4, 9, 19.

Addendum (3/15/16)
Post-Election Audit (Ballots), City of Middleton, Wards 1-4, 9, 19, March 10, 2016 Audit

Overall, the February 25, 2016 Post-Election Audit went well.

The two wards randomly selected for audit include:
• City of Madison, Ward 98
• City of Middleton, Wards 1-4, 9, 19

Originally, the process determined 2 individual wards (City of Madison Ward 98, City of Middleton Ward 4), but when the auditors received the results from the County Clerk, it was realized that public results were posted according to reporting location, which meant City of Middleton required audit of Wards 1-4, 9, 19.

Results from City of Madison, Ward 98 Post-Election Audit confirmed the publicly reported results.

A discrepancy of 7 votes was observed in the electronic voter machine images from the publicly reported results in the City of Middleton, Wards 1-4, 9, 19 Post-Election Audit on February 25, 2016. Although the discrepancy between the Post-Election Audit Results and the Publicly Reported Results provided by County Clerk was most likely due to human error by the lead auditor extracting files late at night after resolving a computer crash, auditors and the County Clerk wished to investigate further.

Auditors were granted permission by County Clerk Scott McDonnell to audit paper ballots for City of Middleton, Wards 1-4, 9, 19 to determine accuracy of machine totals.

Auditors David Spies (Lead Auditor) and Jon Becker from the February 25, 2016 audit went to Middleton City Hall on March 10, 2016 to conduct an audit of paper ballots for City of Middleton, Wards 1-4, 9, 19.

Audit Timeline (verifying Chain of Custody):
(All times occurred on March 10, 2016)

12:45 pm: Auditors David Spies (Lead Auditor) and Jon Becker arrived at Middleton City Hall and checked in with Middleton City Clerk Lorie J. Burns to access ballot bags and verify seal information from Inspectors Statement. Lorie indicated that she had an outside appointment at the end of the day, and should she not be in the office at the conclusion of the audit, John M. Lehman, Finance Director/Assistant City Administrator, was authorized to sign paperwork on her behalf at conclusion of the audit.

Two Ballot Bags were presented with Election Day documentation from the February 2016 election with the following seal numbers which matched Inspectors Report documentation:
- 0002601 (1 of 2)
- 0002557 (2 of 2)

1:00 pm: Ballot Bag 0002601 with 304 ballots was opened and tallied first.

3:10 pm: Ballot Bag 0002557 with 516 ballots was opened and tallied second.

5:40 pm: Final Audit Tally:

*Ballot Tally (Auditors David Spies/Jon Becker) : (820 total votes)

Candidate	Tally
Rebecca G. Bradley	168
Joanne F. Kloppenburg	596
Joe Donald	56

Publicly Reported Results provided by County Clerk: (820 total votes)

Candidate	Tally
Rebecca G. Bradley	168
Joanne F. Kloppenburg	596
Joe Donald	56

<ins>*Auditor's Ballot Tally matched the Publicly Reported Results provided by the County Clerk.</ins>

6:00 pm: After difficulty completely sealing both new ballot bags (logged on City of Middleton Ward-specific Inspectors Statement), ballots were sealed in bags with the following seal numbers:
- 0002533 (1 of 2)
- 0017692 (2 of 2)

Paperwork was initialed by Lead Auditor David Spies and John M. Lehman, Finance Director/Assistant City Administrator for the City of Middleton (as authorized by Middleton City Clerk Lorie J. Burns). Ballots were secured by Lehman in view of Auditors Spies and Becker in a locked closet in the City of Middleton City Hall.

Observations from Post-Election Ballot Audit (City of Middleton)

The discrepancy between the February 25, 2016 Post-Election Audit Results and the Publicly Reported Results provided by County Clerk was most likely due to human error by the lead auditor extracting files late at night after resolving a computer crash.

Paper ballots, although indisputable, took significantly longer to count than electronic ballot images. Even though there were 2 inspectors at the ballot audit whereas 3 were present at the Electronic Voter Machine Image Audit, the amount of time involved with counting and tallying paper ballots took approximately twice as long (approximately 2 hours to count and tally 516 ballots). This audit was for one polling location; with significantly higher turnout in April, August, and November 2016 elections, it is likely that this process will take significantly longer than the 5 hours it took on February 25, 2016. **The Audit perhaps should begin at 9:00 am in April 2016 to facilitate a larger workload.**

It was determined by a conversation between the Dane County Clerk and the Madison City Clerk that the best way to proceed in future post-election audits is to count and tally paper ballots. **This will involve transporting these ballots to the County Clerk's Office in order to maintain chain-of-custody.** It is anticipated that auditors will take custody of the select ward ballot bags from the County Clerk at the time of the Audit, which should be conducted in the City-County Building according to the procedures of open meetings law. Auditors will reseal the ballots in new ballot bags, recording seal numbers to maintain chain-of-custody, and return the bags to the County Clerk at the conclusion of the audit.

Action Plan:

- David Spies should revise the procedure manual and paperwork reflecting suggestions made by auditors during the February 25, 2016 audit as well as changes to the process listed above to reflect a revised paper ballot tally process.
- David Spies should develop a checklist for the actual process of the audit as well as an instructional handout for the auditors to clearly state the procedures and roles each auditor follows in the audit. Depending upon how long it will take to transport ballot bags from polling locations to the County Clerk, it might be necessary to schedule the April 2016 audit further away from the actual election than the schedule used in February 2016. Consult Dane County Clerk Scott McDonnell for advice.
- David Spies needs to schedule a date and room for the April 2016 Post Election Audit, secure audit staff and materials, and arrange for parking for auditors on the days of the audit.

Addendum (City of Middleton Ballot Audit):
- Post-Election Audit Tally Sheet (Ballots), City of Middleton, Wards 1-4, 9, 19, March 10, 2016 Audit
- Post-Election Audit Staff Timesheet, March 10, 2016 Ballot Audit

Dane County Post-Election Audit Checklist (Electronic Voting Machine Digital Images)

Auditor Name: _____

Address: _____

Municipality: _____

Election: _____

Polling Location: _____

Chain of Custody Seal Number (Flash Drive): _____

Date/Time Flash Drive Received from Dane County Clerk: _____ Auditor Initials: _____

Clerk Initials: _____

Date/Time Flash Drive Returned to Dane County Clerk: _____ Auditor Initials: _____

Clerk Initials: _____

Checklist

Inspectors' Statement
- Check for seal number documentation
- Check for completeness
- Does the number of voters equal the number of ballots cast?
- Read Incident Log – is it complete and does it make sense?
- Make sure nothing on the Incident Log associates a voter's name with a particular ballot

Check Chain of Custody documentation.

Count ballots and Compare results.
- Using digital images of the ballots, do the results match? If not why?

General Observations.
- Are there any best practices to share?

Dane County Post-Election Audit Tally Sheet (Electronic Voting Machine Digital Images)

Auditor Name: _____   Municipality: _____

Audit Date: _____   Election: _____

Chain of Custody Seal Number (Flash Drive): _____   Polling Location: _____

Tally Sheet (Digital Images)

Showing results for the _____ ward(s) of the _____ aldermanic district of the _____ of _____ in the County of _____ on the _____ day of _____, 20 _____ as made by the election inspectors setting forth the total number of votes for each office, the names of all persons receiving votes, and the number of votes cast for each person.

GIVE NUMBER OF LAST VOTE ON POLL LIST OR HIGHEST NUMBER ON REGISTRATION LIST _____

Name of Party (Partisan Primary) _____

INSTRUCTIONS: Insert office titles vertically and the names of all candidates horizontally next to office title.

Office	Names of Candidates Including Write-Ins	5 105	10 110	15 115	20 120	25 125	30 130	35 135	40 140	45 145	50 150	55 155	60 160	65 165	70 170	75 175	80 180	85 185	90 190	95 195	100 200	Total Votes Cast (in Figures)

Auditor Name: _____ Municipality: _____

Audit Date: _____ Election: _____

Chain of Custody Seal Number (Flash Drive): _____ Polling Location: _____

Office	Names of Candidates Including Write-Ins	5 105	10 110	15 115	20 120	25 125	30 130	35 135	40 140	45 145	50 150	55 155	60 160	65 165	70 170	75 175	80 180	85 185	90 190	95 195	100 200	Total Votes Cast (in Figures)

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Auditor Name: _____   Municipality: _____

Audit Date: _____   Election: _____

Chain of Custody Seal Number (Flash Drive): _____   Polling Location: _____

Office	Names of Candidates Including Write-Ins	5 105	10 110	15 115	20 120	25 125	30 130	35 135	40 140	45 145	50 150	55 155	60 160	65 165	70 170	75 175	80 180	85 185	90 190	95 195	100 200	Total Votes Cast (in Figures)

Auditor Name: _____   Municipality: _____

Audit Date: _____   Election: _____

Chain of Custody Seal Number (Flash Drive): _____   Polling Location: _____

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Auditor Name: _____   Municipality: _____

Audit Date: _____   Election: _____

Chain of Custody Seal Number (Flash Drive): _____   Polling Location: _____

Ballot Image Concerns (Using digital images of the ballots, do the results match? If not, why?):

Determining Random Selection of Wards for Post-Election Audit

For purposes of randomly identifying a ward with representative size, the following select wards were considered:

1) Madison City Wards 1-99
2) Middleton City Wards 1-19
3) Monona City Wards 1-10
4) Oregon Village Wards 1-11
5) Stoughton City Wards 1-12
6) Sun Prairie City Wards 1-20
7) Verona City Wards 1-9

The website Random.org (www.random.org) has contained within it a True Random Number Generator.

Procedure:

For the purposes of this Post-Election Audit, one ward from within the City of Madison (#1) and one ward selected from any of the following communities (Select wards within communities are indicated; not all wards are included):

2) City of Middleton (wards 1-19)
3) City of Monona (wards 1-10)
4) Village of Oregon (wards 1-11)
5) City of Stoughton (wards 1-12)
6) City of Sun Prairie (wards 1-20)
7) City of Verona (wards 1-9)

A. To determine a community other than Madison for audit:

-Insert "2" in the Min: box of the True Random Number Generator
-Insert "7" in the Max: box of the True Random Number Generator
-Click "Generate"

This should determine a community within the communities outlying the City of Madison.

B. Once this community is determined, Use the True Random Number Generator to randomly select a ward within that community for post-election audit.

For example, if the True Random Number Generator selects #5 City of Stoughton (wards 1-12) in Step B,

-Insert "1" in the Min: box of the True Random Number Generator
-Insert "12" in the Max" box of the True Random Number Generator
-Click "Generate"

This should determine a random ward within wards 1-12 of the City of Stoughton for post-election audit.

C. To determine a ward within the City of Madison for audit:

-Insert "1" in the Min: box of the True Random Number Generator
-Insert "99" in the Max: box of the True Random Number Generator
-Click "Generate"

This should determine a random ward within wards 1-99 of the City of Madison for post-election audit.

D. Requesting electronic ballot images for randomly selected wards

Once Steps A, B, & C have been completed, post-election audit staff will request a digital file of the electronic ballot images from the randomly selected wards (Steps B & C) from the Dane County Clerk's Office.

Post Election Audit Staff Timesheet

February 25, 2016 PE Audit

Personnel	Date	Time	Hours	Purpose
Anne Habel	2.25.16	9 am - 2 pm	5	Conduct Post Election Audit of 2.16.16 Election
	TOTAL HOURS	**Anne Habel**	**5**	
Jon Becker	2.25.16	9 am - 2 pm	5	
	TOTAL HOURS	**Jon Becker**	**5**	
David Spies	12.22.15	2 pm - 2:30 pm	0.5	Meet with Scott McDonnell - Initial planning of February 2016 Audit
David Spies	1.8.16	11 am - 2 pm	3	Development of Audit procedure
David Spies	1.25.16	9:30 am - 11:30 am	2	Development of Audit procedure
David Spies	1.25.16	11:30 am - 12:30 pm	1	Meet Scott McDonnell - Planning of February 2016 Audit
David Spies	1.28.16	12 pm - 4 pm	4	Working with Dummy Sandbox (April 2015) image files in prep of February 2016 Audit
David Spies	2.2.16	9 am - 2 pm	5	Working with Dummy Sandbox (April 2015) image files in prep of February 2016 Audit
David Spies	2.2.16	4 pm - 9 pm	5	Working with Dummy Sandbox (April 2015) image files in prep of February 2016 Audit
David Spies	2.3.16	9 am - 12 pm	3	Working with Dummy Sandbox (April 2015) image files in prep of February 2016 Audit
David Spies	2.3.16	7 pm - 10 pm	3	Working with Dummy Sandbox (April 2015) image files in prep of February 2016 Audit
David Spies	2.4.16	6 pm - 8 pm	2	Working with Dummy Sandbox (April 2015) image files in prep of February 2016 Audit
David Spies	2.10.16	9 am - 10 am	1	Reserving audit room/AV needs; Contacting February 2016 Audit personnel
David Spies	2.10.16	1:30 pm - 5 pm	3.5	Working with Dummy Sandbox (April 2015) image files in prep of February 2016 Audit
David Spies	2.11.16	4 pm - 5 pm	1	Follow Up with February 2016 Audit personnel
David Spies	2.14.16	8 pm - 9 pm	1	February 2016 Audit Paperwork Preparation
David Spies	2.21.16	8 pm - 9:30 pm	1.5	Working with Dummy Sandbox to generate Audit Slideshow presentation
David Spies	2.22.16	3 pm - 3:30 pm	0.5	Follow up with County Clerk - AV Needs/Parking for Auditors
David Spies	2.24.16	10:45 am- 12:45 pm	2	Met Scott McDonnell (computer, flash drive, complete chain of custody paperwork; Tech Dress Rehearsal
David Spies	2.24.16	1:30 pm - 7:30 pm	6	File Extraction/Conversion/Slideshow preparation (Madison Ward 98)
David Spies	2.24.16-2.25.16	10:30 pm - 3:30 am	5	File Extraction/Conversion (Middleton Wards 1-4, 9, 19; computer crash)
David Spies	2.25.26	6 am - 8 am	2	File Extraction/Conversion/Slideshow preparation (Middleton Wards 1-4, 9, 19; resolving computer crash)
David Spies	2.25.16	9 am - 2 pm	5	Conduct Post Election Audit of 2.16.16 Election
	*TOTAL HOURS	**David Spies**	**57**	

*Much of this time was dedicated to understanding and developing the process for future audits; it is anticipated that future audits will require considerably less time for David Spies

I verify that these hours are accurate for payroll.

_____   David Spies, Lead Auditor   _____   Date

Post Election Audit Tally Sheet (Ballots)

City of Middleton, Wards 1-4, 9, 19

AUDITOR: _____ (PRINT NAME)

3/10/2016

Ballot Audit Tally of City of Middleton Wards 1-4, 9, 19; Post Election Audit February 25, 2016 Follow-Up

Tally Sheet (Ballots)

Audit Ballot Tally showing results for the **1-4, 9, 19** ward(s) of the **CITY** of **MIDDLETON** in the County of **DANE** for the election on the **16th day of February, 2016** as made by the election inspectors setting forth the total number of votes for each office, the names of all persons receiving votes, and the number of votes cast for each person.

GIVE NUMBER OF LAST VOTE ON POLL LIST OR HIGHEST NUMBER ON REGISTRATION LIST _____

Name of Party (Partisan Primary) **N/A**

Auditor Name: _____ Chain of Custody Seal Number (Ballot Bags): _____

Audit Date: March 10, 2016 Chain of Custody Seal Number (Ballot Bags): _____

Polling Location: City of Middleton Wards 1-4, 9, 19 Chain of Custody Seal Number (Ballot Bags): _____

Wisconsin Supreme Court Primary

Names of Candidates Including Write-Ins	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	Total Votes Cast (in Figures)
	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	
Rebecca G. Bradley																					

Names of Candidates Including Write-Ins	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	Total Votes Cast (in Figures)
	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	
Joanne F. Kloppenburg																					

Names of Candidates Including Write-Ins	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	Total Votes Cast (in Figures)
	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	
Joe Donald																					

Wisconsin Supreme Court Primary

Names of Candidates Including Write-Ins	205 305	210 310	215 315	220 320	225 325	230 330	235 335	240 340	245 345	250 350	255 355	260 360	265 365	270 370	275 375	280 380	285 385	290 390	295 395	300 400	Total Votes Cast (in Figures)
Rebecca G. Bradley																					

Names of Candidates Including Write-Ins	205 305	210 310	215 315	220 320	225 325	230 330	235 335	240 340	245 345	250 350	255 355	260 360	265 365	270 370	275 375	280 380	285 385	290 390	295 395	300 400	Total Votes Cast (in Figures)
Joanne F. Kloppenburg																					

Names of Candidates Including Write-Ins	205 305	210 310	215 315	220 320	225 325	230 330	235 335	240 340	245 345	250 350	255 355	260 360	265 365	270 370	275 375	280 380	285 385	290 390	295 395	300 400	Total Votes Cast (in Figures)
Joe Donald																					

Auditor Name: _____ Chain of Custody Seal Number (Ballot Bags): _____
Audit Date:　　　March 10, 2016 Chain of Custody Seal Number (Ballot Bags): _____
Polling Location:　City of Middleton Wards 1-4, 9, 19 Chain of Custody Seal Number (Ballot Bags): _____

Wisconsin Supreme Court Primary

| Names of Candidates Including Write-Ins | 405 | 410 | 415 | 420 | 425 | 430 | 435 | 440 | 445 | 450 | 455 | 460 | 465 | 470 | 475 | 480 | 485 | 490 | 495 | 500 | Total Votes Cast (in Figures) |
	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	
Rebecca G. Bradley																					

| Names of Candidates Including Write-Ins | 405 | 410 | 415 | 420 | 425 | 430 | 435 | 440 | 445 | 450 | 455 | 460 | 465 | 470 | 475 | 480 | 485 | 490 | 495 | 500 | Total Votes Cast (in Figures) |
	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	
Joanne F. Kloppenburg																					

| Names of Candidates Including Write-Ins | 405 | 410 | 415 | 420 | 425 | 430 | 435 | 440 | 445 | 450 | 455 | 460 | 465 | 470 | 475 | 480 | 485 | 490 | 495 | 500 | Total Votes Cast (in Figures) |
	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	
Joe Donald																					

Wisconsin Supreme Court Primary

Names of Candidates Including Write-Ins	605 705	610 710	615 715	620 720	625 725	630 730	635 735	640 740	645 745	650 750	655 755	660 760	665 765	670 770	675 775	680 780	685 785	690 790	695 795	700 800	Total Votes Cast (in Figures)
Rebecca G. Bradley																					

Names of Candidates Including Write-Ins	605 705	610 710	615 715	620 720	625 725	630 730	635 735	640 740	645 745	650 750	655 755	660 760	665 765	670 770	675 775	680 780	685 785	690 790	695 795	700 800	Total Votes Cast (in Figures)
Joanne F. Kloppenburg																					

Names of Candidates Including Write-Ins	605 705	610 710	615 715	620 720	625 725	630 730	635 735	640 740	645 745	650 750	655 755	660 760	665 765	670 770	675 775	680 780	685 785	690 790	695 795	700 800	Total Votes Cast (in Figures)
Joe Donald																					

Wisconsin Supreme Court Primary

Post-Election Audit Results:

Candidate	Vote Tally
Rebecca G. Bradley	
Joanne F. Kloppenburg	
Joe Donald	
*Undetermined	
Write-In	

*Undetermined: ballots which the auditors could not determine intent

Publicly Reported Results provided by County Clerk:

Candidate	Vote Tally
Rebecca G. Bradley	
Joanne F. Kloppenburg	
Joe Donald	

Ballot Tally Concerns (Do the results match publicly reported totals? If not, why?):

Post-Election Ballot Audit Timesheet

March 10, 2016 PE Audit Ballots

Personnel	Date	Time	Hours	Purpose
Jon Becker	3.10.16	12:45 pm – 6:00 pm	5.25	Post-Election Audit (Ballots), City of Middleton, Wards 1-4, 9, 19, March 10, 2016 Audit
	TOTAL HOURS	**Jon Becker**	**5.25**	
David Spies	3.10.16	12:45 pm – 6:00 pm	5.25	Post-Election Audit (Ballots), City of Middleton, Wards 1-4, 9, 19, March 10, 2016 Audit
	3.14.16	9:00 pm-11:30 pm	2.5	Write and collate Post Audit Report
	*TOTAL HOURS	**David Spies**	**7.75**	

I verify that these hours are accurate for payroll.

_____   David Spies, Lead Auditor   _____   Date