

# Boulder County 2011 Coordinated Election Post-Election Audit Report December 13, 2011

This report summarizes the post-election audit of the 11/1/2011 Boulder County Coordinated Election. The audit comprised a manual tabulation of a statistical sample (roughly 3%) of the votes cast in the election followed by a comparison with the Election Day tally. Any discrepancies were investigated.

The 2011 Coordinated election comprised:

- 83,573 ballots
- 49 contests with an average of 10.76 contests per ballot. 24 contests were multi-county. Ten contests were uncontested.
- Although three contests had close margins, none were within the state-mandated recount threshold (margin < 0.5% of winner).

By statute, the audit was conducted before certification of the election. The audit was based on a snapshot of the election taken November 3rd, three days after Election Day. At that time 82,724 ballots had been verified and counted, representing 99% of the election's final 83,573 ballots. These ballots were grouped in 558 individually tallied batches, also referred to throughout this document as MBB. To ensure voter privacy, an MBB batch which contained only 1 ballot was combined with another MBB, leaving 557 MBBs available for the audit (min 0, avg 149, max 200 ballots per MBB).

Plans for the audit were detailed on November 4th and the public was encouraged to participate and observe. Press Releases were issued to alert the public.

- On November 4th, three days after the election, a press release was issued describing the audit process and inviting the public to attend the audit setup meeting to be held on November 7<sup>th</sup> at 8:30.
- On November 7<sup>th</sup>, the results of the setup meeting and contest selection were announced.

Due to a recent court ruling associated with inspection of ballot images, the office chose not to release the audit information at this time. To provide security & confidence that no changes were made after the batches were counted, all setup data was backed up to a non-rewriteable CD and retained for inspection.

## Audit Setup Meeting

On November 7<sup>th</sup>, the Audit Board met to review the audit plan, select contests and select batches of ballots for the manual recount. Each jurisdiction participating in the election was invited to participate in the Canvass and Audit; two participants served as the Canvass and Audit Board.

The Audit Board:

1. Reviewed the techniques used for contest and MBB selection. The contest and MBB selection techniques were encapsulated in a parameterized spreadsheet:
  - **Contests:** selected randomly with probability proportional to margin

M = Margin = diff between winner & loser

V = ballots voted in contest

m = relative margin = M/V

Small relative margin → more likely to select contest.

How many contests: select contests as long as there are resources to audit them.

- **MBBs**: selected randomly using the NegExp statistical technique<sup>1</sup>. This selection technique promises improved efficiency when auditing multiple contests in a large election.

For each contest:

Which MBBs → random with probability proportional to # contest ballots

How many MBBs → weighted by margin and two NegExp parameters

wpm = a bound on the miscount expected per MBB

confidence = a measure of statistical effectiveness of the algorithm

2. Fine-tuned the MBB selection parameters. Each contest had tunable MBB selection parameters wpm and confidence, which are defined above.

- Negexp parameter defaults were set as follows:

Contest	wpm	Confidence
Federal	0.20	99%
State	0.20	99%
County	0.20	99%
Local	0.20	80%

- The value of wpm puts a ceiling on the amount of error (or miscount) anticipated in an MBB. This error bound must be greater than the margin for each contest. When the default value of wpm=0.20 was used in the spreadsheet, the error bound turned out to be less than the contest margin for ten contests. For these contests the Audit Board approved an increase of wpm until the error bound rose above the margin. The following contests were impacted:

Contest	wpm
City of Louisville Council Person Ward 1	0.20→0.25
City of Boulder Ballot Issue No. 2A	0.20→0.24
City of Boulder Ballot Question No. 2D	0.20→0.33
City of Boulder Ballot Question No. 2F	0.20→0.34
City of Boulder Ballot Question No. 2G	0.20→0.25
City of Boulder Ballot Question No. 2H	0.20→0.23
City of Lafayette Question No. 2D	0.20→0.36
City of Lafayette Question No. 2E	0.20→0.36
Pine Brook Hills Issue 5A	0.20→0.34
Crestview Estates Issue 5B	0.20→0.38

- To prevent the selection of any one contest from exhausting all audit resources, the Audit Board put a bound on the number of ballot-contests that would be audited per contest. These limits were implemented by artificially reducing the confidence level. The following contests were impacted:

Contest	Confidence
City of Boulder Council Candidates (Vote for 5)	80%→75%

<sup>1</sup> Aslam, Popa, Rivest, [http://www.usenix.org/event/evt08/tech/full\\_papers/aslam/aslam\\_html](http://www.usenix.org/event/evt08/tech/full_papers/aslam/aslam_html)

Note that this was a compromise. One of our goals was to ensure that no contest dominated the audit. For example, prior to adjusting the City of Boulder Council Candidates percentage, the estimated number of ballots to be audited was approximately 13,000, which would have been almost half of the budgeted 3% of the ballot-contests (~26,700). Dropping the confidence level to 75% brought the number down to around 11,000, which was deemed reasonable by the audit board due to the closeness of the contest.

3. Selected MBBs to audit. The *wpm* and *confidence* parameters selected above combined with the contest margin determined a selection probability for each MBB for each contest. To determine if an MBB is selected in the audit of the contest, its probability is tested against a randomly generated number – if the selection probability is greater than the random number then the MBB is tagged as an audit unit for the contest. Because a large number of random numbers were needed for this, the Audit Board used a pseudorandom number algorithm to generate a list of random numbers. The algorithm required a 15-digit seed, which itself was randomly built by combining 3 random digits from each of 5 people. The resulting seed was 246-625-122-642-148.
4. Selected contests. The final task during the Audit Setup Meeting was for the Audit Board to select contests. The first 7 selections, resulting in 5 selected contests, were done by rolling of 4 die. Subsequent selections were made using the same pseudorandom numbers generated above against contest probabilities weighted by margin. The random numbers and the contests selected are shown in Attachment 1. Seven total contests were selected, but because the Thompson School District G contest had 0 MBBs selected, and Boulder County did not have enough votes in this multi-county contest to influence the results, it was not audited.

Note: The Audit Board chose not to audit unopposed contests. There were ten in this election and they were excluded from selection by setting their contest probability to zero.

Attachment 2 summarizes the complete set of contests and MBBs that were selected. In total, 26,870 votes were to be manually verified for the 6 selected contests. These votes were contained within 29,741 ballots on 198 MBBs.

Before starting the manual verification process, a check was completed to ensure that the set of selected MBBs represented all hardware paths through the scanning/counting system in use on Election Day, which was confirmed. If all paths had not been included, additional MBBs/contests would have been manually added to ensure all paths were covered.

## Manual Verification of Selected Contests on Selected MBBs

The manual verification process was organized by MBB and included: reviewing each ballot by hand to identify voting selections, recording selections on a Manual Verification Worksheet (MVW), tallying the selections recorded, and a comparison to Election Day result reports in order to verify machine count accuracy.

For each MBB selected, all associated ballots/batches were first gathered to create the auditable batch (an MBB may contain cast vote results for one or more scanned batches). Then, for all contests selected on the given MBB, each ballot was reviewed and contest choices manually tallied on the associated MVW. This reduced batch handling and associated wear and tear on ballots, a necessary precaution in the event of a recount. Voter Intent was also a key element of the manual verification and the teams were trained to use the same voter intent guidelines that were used on Election Day.

The manual tally was initially performed in four-person teams. The technique used was similar to that pioneered in several California counties<sup>2</sup> and used in Boulder County's 2010 General Election audit. Each four-person team consisted of

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<sup>2</sup> See "Improving the Security, Transparency and Efficiency of California's 1% Manual Tally Procedures", J. L. Hall, US Berkeley, [http://josephhall.org/papers/jhall\\_evt08.pdf](http://josephhall.org/papers/jhall_evt08.pdf).

- a Caller who handled the ballots, located the contest and called out the vote selection
- an Observer who watched the Caller and confirmed the accuracy of the spoken vote
- two Talliers who independently recorded what they heard

The teams used prepared tally sheets (MVWs) unique to the given MBB audit batch. Each MVW contained pre-filled tally areas for each contest to be counted within the batch and included the ballot styles where each contest would be found. However it did not include either the number of ballots on the MBB or the number of ballots that contained the contest. An example is in Attachment 3.

The two Talliers were asked to independently record the spoken vote in groups of 10 stopping after each group to verify that their tallies matched before proceeding to the next grouping. This check was put in place to help reduce the number of total batch recounts required by catching any recording differences when the group of ballots just tallied is still on hand to verify against for correction. Due to multiple sorts required, once the batch MVWs are complete, there is almost zero ability to go back and verify and correct a mistake without full recount.

## **Manual Tally Throughput**

We initially started the audit with 10 four-person teams but quickly identified that we were not on track to complete the audit in the one-week allotted time, and thus switched to a two-person team configuration. The main factor contributing to a significant reduction in throughput on the counting process was directly linked to the Boulder City Council “Vote for 5” contest. There was significant difficulty in calling and recording votes that spanned such a large number of candidates (rows) and ballots across the page (columns). There was additional struggle in identifying the appropriate number of undervotes to record. This issue had a significant impact on the number of calling and recording errors and resulted in an extremely high number of false mismatches between Election Day machine counts and the manual verification tally. In total, 63 of the 198 batches required recount including 101 contest recounts.

## **Audit Improvement Trials**

The manual verification recording challenges encountered with the Boulder City Council “Vote for 5” contest prompted two audit technique improvements to be trialed, including the two-person team configuration mentioned above. The second technique trialed was a focused sort & stack count which will be described further below.

Two-person team configuration:

The two-person audit team technique, consisting of only a “Caller” and “Tallier”, was inspired by the need for efficiency and counting improvements. It took away the role of the observer, requiring active participation by each team member and resulted in the production of a single tally sheet (MVW), increasing team member responsibility in result accuracy. With several adjustments made throughout the trial to accommodate a two-person process with only a single count, in the end this configuration provided improved accuracy and significantly greater efficiency in the counting process.

Sort & Stack Verification:

The sort & stack verification technique (“fourth count”) was trialed as an improved method for resolving mismatched results. If the results didn’t match up, the first course of action was to have a different team complete a second count (recount). This resolved the mismatch 50% of the time, but in some cases a third or fourth count was required to confirm an accurate recording. To confirm an accurate record/tally before escalating to investigating election night resolution logs, the fourth count was uniquely executed and labeled sort & stack verification count on the audit batch comparison sheet.

Using more experienced teams, all contest ballots were first pulled and accounted for. Then, for each candidate choice reflecting inconsistent and discrepant MVW results, each contest ballot was reviewed and any ballot with a mark in the box for the given candidate was pulled and placed into a unique pile. Finally, the ballots pulled for the given candidate were counted and the total captured, including identifying any ballot that could provide a difference in voter intent. If there was any question in the validity of count, the batch was re-verified separately to confirm. This resolved five out of fourteen differences.

## Comparison with Election Day Results

Election Day results were prepared for the MBBs and compared with the hand tally. If there was a discrepancy, the contest in question was recounted (not necessarily by the original tally team). The tally teams were told which contest to recount but were not told what the discrepancy was.

For each batch included in the audit, the manual verification comparison was documented by combining the manual verification worksheet results (i.e., Attachment 3) with the Election Day results into a Comparison Worksheet. Attachment 4 shows the machine count source data, as well as the comparison worksheet.

## Discrepancy Investigations

Initial comparisons of Election Day results against manual verification results, resulted in 63 audit batch discrepancies, roughly 32% of the total 198 batches audited. Up to four counts were required in order to get an accurate count, resolving the issue in 43 of the 63 discrepant batches. It is important to note that these discrepancies would be identified in a recount.

In the 20 remaining batches, 23 ballot contest discrepancies were identified; all associated with voter intent and affecting only the City of Boulder Council race. 17 were associated with a strike out of choice, where no overvote was created, and the remaining five were associated with incomplete, hesitant or stray markings. The results of the investigations are documented in the following attachments:

- Attachment 5 – Summary of Differences, including sample images of ballots in question
- Attachment 6 – Discrepancy Review Details
- Attachment 7 – Discrepancy Impact Review, showing what impact the discrepancies had on the election results
- Attachment 8 – Outcome Impact Review, showing adjusted recount threshold

In the near 185,000 contest choice boxes that were manually verified, the only audit discrepancies confirmed through the audit were associated with the Boulder City Council “Vote for 5” race and the trend in strike outs highlighted a pattern requiring additional investigation.

Due to the potential trend identified, the audit was then escalated and resulted in a visual inspection of more than 21,000 Boulder City Council contest ballots and included a sample set review of the Lafayette City Council “Vote for 6” race. The subsequent combined discrepancy rate identified and used for impact analysis was .000167569; derived by taking the sum of all discrepancies identified divided by the sum of all contest boxes audited & inspected for the City of Boulder race.

Through this escalation, it has been determined that the outcome of the Boulder City Council contest, as well as the Lafayette City Council contest was not affected by this trend.

## Conclusions

No systemic errors were found in the voting equipment, and no trends or differences were identified across the various equipment paths. The audit did however identify a trend in voter intent and the correction of votes associated with the Boulder City Council "Vote for 5" race.

A total of 348,152 contest choice boxes were reviewed in this year's audit. 53 out of the 316,288 Boulder City Council contest choice boxes reviewed highlighted a voter intent trend to be addressed in future election processes. While a few are linked strictly to a difference in judgment on voter intent, the majority of these do not fall under this category and instead represent a true discrepancy rate.

For contests with close margins, the Audit or Canvass board may consider it important to include audit differences in any recount recommendation decisions.

The state mandated recount is required if:

$$W - L < 0.005 * W$$

Where W and L are the Winner & Loser vote totals

Incorporating the discrepancy rate, assuming all discrepancies swing to reduce the margin, the worst-case recount decision becomes:

$$W - L < 0.005 * W$$

Where U is the discrepancy rate and V is the number of votes cast in the contest,  $W + L$

For this year's election, we thought it was mandatory to consider and took it further to include evaluating the impact of incorporating the discrepancy rate associated with a single contest into the recount threshold, possible only because of the number of differences solely associated with the Boulder City Council race.

This inclusion reflects the assumption that this same trend could be randomly distributed through other contests and ballots and the worst-case recount decisions would be highlighted. Further research is needed to determine reasonable application in future elections.

This Impact Review was then completed for all contest outcomes and Attachment 8 shows the calculations for all contests. It is verified that no contest is close enough to trigger a recount, even when applying the discrepancy rate associated with the Boulder City Council race.

Based on the results of this year's audit, there are two areas that will be further analyzed for improvement in future elections. The first area will involve the training of the open and separating teams, with special emphasis provided for "vote for n" contests. Secondly, the counting process will be reviewed, both for the MVWs (tally sheets), which are currently too complex for large "vote for n" contests, as well as team structure and the future use of the two-person team.

The audit of the 2011 Coordinated Election was concluded on Nov 14, 2011. Attachment 9 contains the statement from the Audit Board.

Attachment 1: Contest Selection

<b>Random #</b>	<b>Contest</b>	<b>Already Selected?</b>	<b>Contest Ballots</b>	<b>Cumulative Ballots</b>	<b>Num Contests</b>
0.7667	CITY OF BOULDER BALLOT ISSUE NO. 2B		6484	26870	7
0.4661	City of Longmont Mayor		7445		
0.2594	City of Boulder Council Candidates (Vote for 5)		10938		
0.5703	Boulder Valley School District D		1306		
0.6326	Thompson School District G		0		
0.1518	City of Boulder Council Candidates (Vote for 5)	Already Picked			
0.1308	City of Boulder Council Candidates (Vote for 5)	Already Picked			
0.9809	Rocky Mountain Fire Ballot Question 5D		460		
0.7534	CITY OF BOULDER BALLOT ISSUE NO. 2B	Already Picked			
0.7808	CITY OF BOULDER BALLOT ISSUE NO. 2B	Already Picked			
0.1104	City of Boulder Council Candidates (Vote for 5)	Already Picked			
0.7845	CITY OF BOULDER BALLOT ISSUE NO. 2B	Already Picked			
0.8416	CITY OF BOULDER BALLOT ISSUE NO. 2B	Already Picked			
0.3162	City of Boulder Council Candidates (Vote for 5)	Already Picked			
0.2401	City of Boulder Council Candidates (Vote for 5)	Already Picked			
0.6421	Thompson School District G	Already Picked			
0.5485	City of Louisville City Council Person Ward I		237		

## Contest and MBB Selection - 2011 Coordinated Election Audit

	City of Boulder Council Candidates (Vote for 5)	City of Longmont Mayor	City of Louisville City Council Person Ward I	Boulder Valley School District D	Thompson School District G	CITY OF BOULDER BALLOT ISSUE NO. 2B	Rocky Mountain Fire Ballot Question 5D			
	Selected	Selected	Selected	Selected	Selected	Selected	Selected	<b>7</b>	<b>Contests selected</b>	
<b>MBBs to Audit</b>	147	84	11	12	0	88	31	<b>198</b>	<b>MBBs selected</b>	
<b>Ballot-Contests</b>	10938	7445	237	1306	0	6484	460	<b>26870</b>	<b>Number of ballot-contests</b>	
								<b>94</b>	<b>Total recounts required</b>	
								<b>292</b>	<b>Total counts required</b>	
								<b>Total Ballots on MBB</b>		<b>Num Manual Verification Counts Needed</b>
<b>p001_mb_267</b>	<b>Audited</b>							150	Selected	2
<b>p003_mb_453</b>	Audited							150	Selected	1
<b>p004_mb_452</b>	Audited					Audited		150	Selected	1
<b>p008_mb_293</b>	Audited					Audited	Audited	150	Selected	1
<b>p009_mb_276</b>	Audited	Audited						150	Selected	1
<b>p010_mb_243</b>	Audited					Audited		150	Selected	1
<b>p011_mb_092</b>	<b>Audited</b>		Audited			Audited	Audited	150	Selected	2
<b>p014_mb_247</b>	Audited					Audited		150	Selected	1
<b>p015_mb_298</b>	<b>Audited</b>					<b>Audited</b>		149	Selected	3
<b>p017_mb_297</b>	<b>Audited</b>					Audited		150	Selected	3
<b>p024_mb_029</b>	<b>Audited</b>						Audited	150	Selected	2
<b>p042_mb_150</b>	Audited	<b>Audited</b>	Audited			Audited	Audited	149	Selected	2
<b>p043_mb_081</b>	Audited					Audited		150	Selected	1
<b>p044_mb_304</b>	Audited	Audited		Audited		Audited	Audited	150	Selected	1
<b>p047_mb_193</b>	Audited	Audited				Audited	Audited	150	Selected	1
<b>p051_mb_090</b>	Audited	Audited	Audited	Audited		Audited	Audited	150	Selected	1
<b>p059_mb_075</b>	<b>Audited</b>	Audited				Audited	Audited	150	Selected	<b>3*</b>
<b>p065_mb_155</b>	Audited					Audited		150	Selected	1
<b>p068_mb_195</b>	Audited	Audited				Audited		150	Selected	1
<b>p069_mb_196</b>	Audited					Audited		150	Selected	1
<b>p070_mb_197</b>	<b>Audited</b>	Audited				Audited		150	Selected	<b>3*</b>
<b>p073_mb_300</b>	<b>Audited</b>	Audited		<b>Audited</b>		Audited	Audited	150	Selected	3
<b>p080_mb_175</b>		Audited						150	Selected	1
<b>p085_mb_263</b>	Audited	Audited				Audited		150	Selected	1
<b>p086_mb_125</b>	Audited	Audited				Audited		150	Selected	1
<b>p087_mb_126</b>	Audited	Audited				Audited		150	Selected	1
<b>p090_mb_301</b>	<b>Audited</b>							149	Selected	2
<b>p094_mb_144</b>							Audited	150	Selected	1
<b>p100_mb_254</b>	Audited							150	Selected	1
<b>p102_mb_159</b>	Audited	Audited	Audited	Audited		Audited	Audited	150	Selected	1
<b>p105_mb_157</b>	Audited							200	Selected	1

\* Resolution Discrepancy was confirmed for the audit batch



## Contest and MBB Selection - 2011 Coordinated Election Audit

	City of Boulder Council Candidates (Vote for 5)	City of Longmont Mayor	City of Louisville City Council Person Ward I	Boulder Valley School District D	Thompson School District G	CITY OF BOULDER BALLOT ISSUE NO. 2B	Rocky Mountain Fire Ballot Question 5D			
	Selected	Selected	Selected	Selected	Selected	Selected	Selected	<b>7</b>	<b>Contests selected</b>	
<b>MBBs to Audit</b>	147	84	11	12	0	88	31	<b>198</b>	<b>MBBs selected</b>	
<b>Ballot-Contests</b>	10938	7445	237	1306	0	6484	460	<b>26870</b>	<b>Number of ballot-contests</b>	
								<b>94</b>	<b>Total recounts required</b>	
								<b>292</b>	<b>Total counts required</b>	
								<b>Total Ballots on MBB</b>		<b>Num Manual Verification Counts Needed</b>
<b>p106_mb_256</b>		Audited						150	Selected	1
<b>p107_mb_239</b>	Audited							150	Selected	1
<b>p118_mb_235</b>	<b>Audited</b>	Audited						150	Selected	2
<b>p129_mb_043</b>		Audited						150	Selected	1
<b>p130_mb_022</b>	Audited	Audited						150	Selected	1
<b>p133_mb_171</b>	Audited	Audited				Audited		150	Selected	1
<b>p134_mb_274</b>	Audited							150	Selected	1
<b>p138_mb_229</b>	Audited	<b>Audited</b>				Audited	Audited	150	Selected	2
<b>p140_mb_178</b>	<b>Audited</b>							149	Selected	2
<b>p141_mb_059</b>	Audited	Audited						150	Selected	1
<b>p145_mb_029</b>		Audited						150	Selected	1
<b>p149_mb_244</b>	Audited	Audited						150	Selected	1
<b>p153_mb_228</b>	Audited							150	Selected	1
<b>p155_mb_091</b>	Audited					Audited		150	Selected	1
<b>p156_mb_088</b>	Audited					Audited		150	Selected	1
<b>p157_mb_085</b>	Audited	Audited						150	Selected	1
<b>p161_mb_176</b>		<b>Audited</b>						150	Selected	1
<b>p162_mb_058</b>	Audited							150	Selected	1
<b>p163_mb_060</b>		Audited						150	Selected	1
<b>p164_mb_226</b>	Audited					Audited		150	Selected	1
<b>p166_mb_052</b>		Audited						150	Selected	1
<b>p172_mb_224</b>	Audited					Audited		149	Selected	1
<b>p178_mb_050</b>	<b>Audited</b>							150	Selected	<b>3*</b>
<b>p179_mb_051</b>		Audited						150	Selected	1
<b>p183_mb_148</b>		Audited						150	Selected	1
<b>p189_mb_220</b>		Audited						150	Selected	1
<b>p192_mb_121</b>	Audited	Audited		Audited		Audited	Audited	150	Selected	1
<b>p196_mb_163</b>	<b>Audited</b>	Audited				Audited		150	Selected	<b>3*</b>
<b>p197_mb_083</b>	Audited					Audited		150	Selected	1
<b>p198_mb_082</b>	<b>Audited</b>					Audited		150	Selected	2
<b>p199_mb_314</b>	Audited		Audited			Audited	<b>Audited</b>	150	Selected	2

\* Resolution Discrepancy was confirmed for the audit batch

## Contest and MBB Selection - 2011 Coordinated Election Audit

	City of Boulder Council Candidates (Vote for 5)	City of Longmont Mayor	City of Louisville City Council Person Ward I	Boulder Valley School District D	Thompson School District G	CITY OF BOULDER BALLOT ISSUE NO. 2B	Rocky Mountain Fire Ballot Question 5D			
	Selected	Selected	Selected	Selected	Selected	Selected	Selected	<b>7</b>	<b>Contests selected</b>	
<b>MBBs to Audit</b>	147	84	11	12	0	88	31	<b>198</b>	<b>MBBs selected</b>	
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								<b>Total Ballots on MBB</b>		<b>Num Manual Verification Counts Needed</b>
p201_mb_064	Audited							150	Selected	1
p202_mb_310	Audited							150	Selected	1
p203_mb_149	Audited							150	Selected	1
p204_mb_311	Audited							150	Selected	2
p210_mb_252	Audited	Audited				Audited		150	Selected	3
p214_mb_191		Audited						150	Selected	1
p215_mb_158	Audited					Audited		150	Selected	1
p217_mb_222	Audited							150	Selected	1
p220_mb_162	Audited							150	Selected	1
p224_mb_100	Audited	Audited		Audited		Audited	Audited	150	Selected	2
p227_mb_206		Audited						150	Selected	1
p228_mb_204	Audited					Audited		150	Selected	3
p243_mb_213	Audited	Audited				Audited		150	Selected	1
p249_mb_108	Audited							150	Selected	1
p254_mb_236	Audited					Audited		149	Selected	1
p265_mb_140	Audited	Audited				Audited		150	Selected	1
p268_mb_318	Audited	Audited				Audited	Audited	150	Selected	1
p269_mb_134	Audited	Audited				Audited		150	Selected	1
p274_mb_142	Audited							150	Selected	1
p280_mb_232	Audited							150	Selected	1
p282_mb_105		Audited						150	Selected	2
p286_mb_223	Audited	Audited		Audited		Audited	Audited	150	Selected	1
p292_mb_322	Audited							150	Selected	1
p294_mb_319	Audited					Audited		150	Selected	1
p298_mb_420	Audited							150	Selected	1
p306_mb_424		Audited						149	Selected	2
p307_mb_261	Audited					Audited		150	Selected	3*
p309_mb_390		Audited						150	Selected	1
p310_mb_369, p308_mb_368	Audited					Audited		150	Selected	2
p312_mb_389	Audited							150	Selected	1

\* Resolution Discrepancy was confirmed for the audit batch

## Contest and MBB Selection - 2011 Coordinated Election Audit

	City of Boulder Council Candidates (Vote for 5)	City of Longmont Mayor	City of Louisville City Council Person Ward I	Boulder Valley School District D	Thompson School District G	CITY OF BOULDER BALLOT ISSUE NO. 2B	Rocky Mountain Fire Ballot Question 5D			
	Selected	Selected	Selected	Selected	Selected	Selected	Selected	<b>7</b>	<b>Contests selected</b>	
<b>MBBs to Audit</b>	147	84	11	12	0	88	31	<b>198</b>	<b>MBBs selected</b>	
<b>Ballot-Contests</b>	10938	7445	237	1306	0	6484	460	<b>26870</b>	<b>Number of ballot-contests</b>	
								<b>94</b>	<b>Total recounts required</b>	
								<b>292</b>	<b>Total counts required</b>	
								<b>Total Ballots on MBB</b>		<b>Num Manual Verification Counts Needed</b>
p313_mb_388	Audited							150	Selected	1
p317_mb_248	Audited					Audited		150	Selected	2
p322_mb_245	Audited					Audited		150	Selected	3*
p323_mb_392		Audited						150	Selected	1
p324_mb_387		Audited						150	Selected	1
p325_mb_417	Audited							150	Selected	3*
p326_mb_411			Audited				Audited	150	Selected	1
p327_mb_412	Audited							150	Selected	3*
p337_mb_451			Audited				Audited	150	Selected	1
p338_mb_434	Audited					Audited		150	Selected	1
p340_mb_447	Audited					Audited		150	Selected	2
p341_mb_419		Audited						150	Selected	1
p343_mb_441		Audited						150	Selected	1
p344_mb_450	Audited							150	Selected	1
p347_mb_251		Audited						150	Selected	2
p348_mb_377		Audited						150	Selected	2
p349_mb_367	Audited					Audited		150	Selected	3*
p351_mb_397		Audited						150	Selected	1
p353_mb_456		Audited						150	Selected	1
p357_mb_260	Audited	Audited		Audited		Audited	Audited	150	Selected	3
p360_mb_399	Audited							150	Selected	1
p362_mb_400	Audited	Audited				Audited	Audited	150	Selected	1
p363_mb_426	Audited	Audited				Audited		150	Selected	2
p364_mb_427	Audited					Audited		150	Selected	1
p366_mb_385	Audited							150	Selected	1
p368_mb_386		Audited						150	Selected	1
p370_mb_362	Audited							148	Selected	1
p377_mb_257	Audited					Audited		150	Selected	3
p378_mb_375		Audited						150	Selected	1
p382_mb_393	Audited	Audited						150	Selected	3*
p385_mb_407	Audited					Audited		149	Selected	3

\* Resolution Discrepancy was confirmed for the audit batch

## Contest and MBB Selection - 2011 Coordinated Election Audit

	City of Boulder Council Candidates (Vote for 5)	City of Longmont Mayor	City of Louisville City Council Person Ward I	Boulder Valley School District D	Thompson School District G	CITY OF BOULDER BALLOT ISSUE NO. 2B	Rocky Mountain Fire Ballot Question 5D			
	Selected	Selected	Selected	Selected	Selected	Selected	Selected	<b>7</b>	<b>Contests selected</b>	
<b>MBBs to Audit</b>	147	84	11	12	0	88	31	<b>198</b>	<b>MBBs selected</b>	
<b>Ballot-Contests</b>	10938	7445	237	1306	0	6484	460	<b>26870</b>	<b>Number of ballot-contests</b>	
								<b>94</b>	<b>Total recounts required</b>	
								<b>292</b>	<b>Total counts required</b>	
								<b>Total Ballots on MBB</b>		<b>Num Manual Verification Counts Needed</b>
p388_mb_409	Audited							150	Selected	1
p389_mb_446		Audited						150	Selected	1
p390_mb_445	<b>Audited</b>					Audited	Audited	149	Selected	3
p392_mb_268	Audited					Audited		150	Selected	1
p394_mb_352		Audited						150	Selected	1
p401_mb_605	Audited					Audited	Audited	150	Selected	1
p406_mb_327	Audited	<b>Audited</b>				Audited		150	Selected	2
p407_mb_365	<b>Audited</b>					Audited		150	Selected	<b>3*</b>
p409_mb_331	<b>Audited</b>							150	Selected	<b>3*</b>
p410_mb_330	<b>Audited</b>							150	Selected	<b>3*</b>
p413_mb_603		Audited						150	Selected	1
p414_mb_351		Audited						150	Selected	1
p417_mb_376	Audited							150	Selected	1
p419_mb_342		Audited						150	Selected	1
p420_mb_340	<b>Audited</b>							149	Selected	3
p422_mb_380	Audited							150	Selected	1
p423_mb_344		Audited						149	Selected	1
p424_mb_355	<b>Audited</b>					Audited		150	Selected	<b>3*</b>
p426_mb_372	<b>Audited</b>					<b>Audited</b>		150	Selected	2
p427_mb_337	Audited					Audited		150	Selected	1
p430_mb_596	Audited					Audited	Audited	149	Selected	1
p432_mb_324	<b>Audited</b>							150	Selected	<b>3*</b>
p435_mb_373		Audited						150	Selected	1
p437_mb_354		<b>Audited</b>						150	Selected	2
p438_mb_611	Audited							150	Selected	1
p441_mb_335	Audited							150	Selected	1
p442_mb_325	Audited	Audited		Audited		Audited	Audited	150	Selected	1
p446_mb_353	Audited	Audited	Audited	Audited		Audited	Audited	150	Selected	1
p447_mb_358	Audited							150	Selected	1
p448_mb_614	<b>Audited</b>							150	Selected	2
p449_mb_589		Audited						150	Selected	1

\* Resolution Discrepancy was confirmed for the audit batch

## Contest and MBB Selection - 2011 Coordinated Election Audit

	City of Boulder Council Candidates (Vote for 5)	City of Longmont Mayor	City of Louisville City Council Person Ward I	Boulder Valley School District D	Thompson School District G	CITY OF BOULDER BALLOT ISSUE NO. 2B	Rocky Mountain Fire Ballot Question 5D			
	Selected	Selected	Selected	Selected	Selected	Selected	Selected	<b>7</b>	<b>Contests selected</b>	
<b>MBBs to Audit</b>	147	84	11	12	0	88	31	<b>198</b>	<b>MBBs selected</b>	
<b>Ballot-Contests</b>	10938	7445	237	1306	0	6484	460	<b>26870</b>	<b>Number of ballot-contests</b>	
								<b>94</b>	<b>Total recounts required</b>	
								<b>292</b>	<b>Total counts required</b>	
								<b>Total Ballots on MBB</b>		<b>Num Manual Verification Counts Needed</b>
<b>p453_mb_598</b>	Audited							150	Selected	1
<b>p454_mb_341</b>			Audited				Audited	150	Selected	1
<b>p457_mb_323</b>		Audited						150	Selected	1
<b>p458_mb_601</b>	Audited					Audited		150	Selected	1
<b>p460_mb_592</b>	Audited							150	Selected	1
<b>p462_mb_616</b>		Audited						150	Selected	1
<b>p463_mb_574</b>	Audited					Audited		150	Selected	1
<b>p464_mb_573</b>		Audited						150	Selected	1
<b>p467_mb_575</b>	Audited		Audited	<b>Audited</b>		Audited	Audited	150	Selected	3
<b>p468_mb_576</b>		Audited						150	Selected	1
<b>p471_mb_600</b>	Audited							150	Selected	1
<b>p472_mb_602</b>	Audited					Audited		150	Selected	1
<b>p476_mb_568</b>		Audited						150	Selected	1
<b>p477_mb_604</b>	<b>Audited</b>					<b>Audited</b>		150	Selected	3
<b>p479_mb_569</b>	<b>Audited</b>					Audited		150	Selected	2
<b>p482_mb_554</b>	Audited					Audited		150	Selected	1
<b>p484_mb_572</b>	Audited					Audited		149	Selected	1
<b>p485_mb_582</b>		<b>Audited</b>						150	Selected	3
<b>p488_mb_556</b>	Audited							150	Selected	1
<b>p489_mb_590</b>	Audited					Audited		150	Selected	1
<b>p490_mb_545</b>	Audited	Audited				Audited		150	Selected	1
<b>p492_mb_579</b>	<b>Audited</b>							150	Selected	<b>3*</b>
<b>p494_mb_577</b>	Audited					Audited		150	Selected	1
<b>p498_mb_551</b>		Audited						150	Selected	1
<b>p502_mb_534</b>	Audited							150	Selected	1
<b>p509_mb_458</b>		<b>Audited</b>						150	Selected	2
<b>p510_mb_555</b>	Audited					Audited		150	Selected	1
<b>p511_mb_538</b>	Audited							149	Selected	1
<b>p512_mb_539</b>		<b>Audited</b>						150	Selected	2
<b>p513_mb_537</b>	Audited	Audited	Audited	<b>Audited</b>		Audited	Audited	150	Selected	2
<b>p515_mb_546</b>	<b>Audited</b>							149	Selected	<b>2*</b>

\* Resolution Discrepancy was confirmed for the audit batch

## Contest and MBB Selection - 2011 Coordinated Election Audit

	City of Boulder Council Candidates (Vote for 5)	City of Longmont Mayor	City of Louisville City Council Person Ward I	Boulder Valley School District D	Thompson School District G	CITY OF BOULDER BALLOT ISSUE NO. 2B	Rocky Mountain Fire Ballot Question 5D				
	Selected	Selected	Selected	Selected	Selected	Selected	Selected		<b>7</b>	<b>Contests selected</b>	
<b>MBBs to Audit</b>	147	84	11	12	0	88	31		<b>198</b>	<b>MBBs selected</b>	
<b>Ballot-Contests</b>	10938	7445	237	1306	0	6484	460		<b>26870</b>	<b>Number of ballot-contests</b>	
									<b>94</b>	<b>Total recounts required</b>	
									<b>292</b>	<b>Total counts required</b>	
									<b>Total Ballots on MBB</b>	<b>Num Manual Verification Counts Needed</b>	
<b>p520_mb_524</b>		Audited							150	Selected	1
<b>p522_mb_530</b>	<b>Audited</b>					Audited			148	Selected	<b>3*</b>
<b>p525_mb_514</b>	<b>Audited</b>					Audited			150	Selected	2
<b>p528_mb_547</b>	<b>Audited</b>								149	Selected	<b>2*</b>
<b>p529_mb_516</b>	<b>Audited</b>								150	Selected	2
<b>p532_mb_622</b>	Audited					Audited			150	Selected	1
<b>p533_mb_519</b>	Audited	Audited				Audited			150	Selected	1
<b>p543_mb_494</b>	Audited					Audited			150	Selected	1
<b>p544_mb_493</b>	<b>Audited</b>					Audited			150	Selected	<b>3*</b>
<b>p547_mb_501</b>		Audited							150	Selected	1
<b>p548_mb_525</b>	Audited					Audited			150	Selected	1
<b>p552_mb_518</b>							Audited		150	Selected	1
<b>p553_mb_498</b>							Audited		161	Selected	1

\* Resolution Discrepancy was confirmed for the audit batch

Attachment 3 - Sample Tally Sheet

Contest	City of Boulder Council Candidates
District Styles	DS-17, 18

Audit Batch SYS	Date	Page 1
p178_mb_050		

	Print First and Last Name	Affiliation
Caller		
Witness		
Tallier 1		
Tallier 2		

SYS
A
Batch #
8
Count #
1

Option	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Total
Ronald M. Chase	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Mark Gelband	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Fenno Hoffman	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Jonathan R. Hondorf	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Kevin Hotaling	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Tom Johnston	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Suzanne Jones	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
George Karakehian	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Stephen F. Keenan	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Dan King	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Lisa Morzel	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Tim Plass	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Ken Wilson	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Daniel Ziskin	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Overvotes	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Undervotes							
Not On Ballot							
Group Total							

Attachment 3 - Sample Tally Sheet

Contest	City of Boulder Council Candidates
District Styles	DS-17, 18

Audit Batch SYS	Date	Page 2
p178_mb_050		

	Print First and Last Name	Affiliation
Caller		
Witness		
Tallier 1		
Tallier 2		

SYS
A
Batch #
8
Count #
1

Option	Group 7	Group 8	Group 9	Group 10	Group 11	Group 12	Total
Ronald M. Chase	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Mark Gelband	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Fenno Hoffman	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Jonathan R. Hondorf	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Kevin Hotaling	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Tom Johnston	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Suzanne Jones	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
George Karakehian	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Stephen F. Keenan	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Dan King	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Lisa Morzel	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Tim Plass	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Ken Wilson	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Daniel Ziskin	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Overvotes	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Undervotes							
Not On Ballot							
Group Total							



Attachment 3 - Sample Tally Sheet

Contest	City of Boulder Council Candidates
District Styles	DS-17, 18

Audit Batch SYS	Date	Page 3
p178_mb_050		

	Print First and Last Name	Affiliation
Caller		
Witness		
Tallier 1		
Tallier 2		

SYS
A
Batch #
8
Count #
1

Option	Group 13	Group 14	Group 15	Total
Ronald M. Chase	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Mark Gelband	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Fenno Hoffman	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Jonathan R. Hondorf	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Kevin Hotaling	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Tom Johnston	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Suzanne Jones	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
George Karakehian	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Stephen F. Keenan	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Dan King	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Lisa Morzel	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Tim Plass	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Ken Wilson	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Daniel Ziskin	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Overvotes	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	01 02 03 04 05 06 07 08 09 10	
Undervotes				
Not On Ballot				
Group Total				

Attachment 4 – Comparison Worksheet

**Machine Count:**

MBB Name	Contest Name	Contest Ballots	Cast Votes	Ronald M. Chase	Mark Gelband	Fenno Hoffman	Jonathan R. Hondorf	Kevin Hotaling	Tom Johnston	Suzanne Jones	George Karakehian	Stephen F. Keenan	Dan King	Lisa Morzel	Tim Plass	Ken Wilson	Daniel Ziskin	Over Votes	Under Votes
p000_mb_000	Boulder Council Candidates Vote For 5	44	153	0	3	9	12	2	4	28	18	1	9	22	19	14	12	0	67

**Comparison Worksheet:**

Contest	City of Boulder Council Candidates
District Styles	DS-17, 18

Audit Batch MBB	Date	Page 1
	11/11/2011	

	Print First and Last Name	Affiliation
Caller	Taylor O'Dell	
Witness		
Tallier 1	Will Deoreo	
Tallier 2		

SYS
C
Batch #
22,23
Count #
1

Option	Count 1	Count2	MVW Count	Machine Count	Diff
Ronald M. Chase	0	0	0	0	0
Mark Gelband	5	3	3	3	0
Fenno Hoffman	10	9	9	9	0
Jonathan R. Hondorf	9	12	12	12	0
Kevin Hotaling	3	2	2	2	0
Tom Johnston	11	4	4	4	0
Suzanne Jones	27	28	28	28	0
George Karakehian	11	18	18	18	0
Stephen F. Keenan	4	1	1	1	0
Dan King	12	9	9	9	0
Lisa Morzel	20	22	22	22	0
Tim Plass	20	19	19	19	0
Ken Wilson	12	14	14	14	0
Daniel Ziskin	8	11	11	12	1
Overvotes	0	0	0	0	0
Undervotes	68	68	68	67	-1
Not On Ballot	96	107			
Group Total	44				

### Summary of Differences

Out of 26,870 ballot contests audited, 23 highlighted differences between the audit team count and machine count. All were associated with voter intent and affected only the City of Boulder Council race. 17 were associated with a strike out of choice, where no overvote was created and the remaining five were associated with incomplete, hesitant or stray markings. Due to number of differences identified, a net of 11,654 additional Boulder City ballots were reviewed in Ballot Now (64,500 total reviewed), identifying 20 additional instances. Below are images reflecting the types of differences.

In this example, the candidate (Wilson) was struck out on Boulder City Council and no additional choice was made. Because no more than five boxes were filled in, no overvote was created and the contest was not flagged for judge resolution.

<p><b>City of Boulder Council Candidates</b></p> <p>Following are the candidates for City Council. You may vote for up to five (5) candidates. If you vote for five (5) or less, your votes in this race will be counted. If you vote for more than five (5), your votes in this race will not be counted.</p> <p><input type="checkbox"/> Ronald M. Chase</p> <p><input type="checkbox"/> Mark Gelband</p> <p><input checked="" type="checkbox"/> Fenno Hoffman</p> <p><input type="checkbox"/> Jonathan R. Hondorf</p> <p><input type="checkbox"/> Kevin Hotaling</p> <p><input type="checkbox"/> Tom Johnston</p> <p><input type="checkbox"/> Suzanne Jones</p> <p><input type="checkbox"/> George Karakelian</p> <p><input type="checkbox"/> Stephen F. Keenan</p> <p><input checked="" type="checkbox"/> Dan King</p> <p><input type="checkbox"/> Lisa Morzel</p> <p><input type="checkbox"/> Tim Plass</p> <p><input checked="" type="checkbox"/> Ken Wilson</p> <p><input checked="" type="checkbox"/> Daniel Ziskin</p>	<p>INCREASED TAX RATES BE SPENT ONLY TO FUND PUBLIC EDUCATION FROM PRESCHOOL THROUGH TWELFTH GRADE AND PUBLIC POSTSECONDARY EDUCATION; SPECIFYING THAT THE APPROPRIATION OF THE ADDITIONAL TAX REVENUES BE IN ADDITION TO AND NOT SUBSTITUTED FOR MONEYS OTHERWISE APPROPRIATED FOR PUBLIC EDUCATION FROM PRESCHOOL THROUGH TWELFTH GRADE AND PUBLIC POSTSECONDARY EDUCATION FOR THE 2011-12 FISCAL YEAR; AND ALLOWING THE ADDITIONAL TAX REVENUES TO BE COLLECTED, KEPT, AND SPENT NOTWITHSTANDING ANY LIMITATIONS PROVIDED BY LAW?</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p><b>County Question 1A:</b> [Modification of term limits for the office of the Boulder County Sheriff]</p> <p>Shall the term limits imposed by state law and in article XVIII, section 11, of the Colorado Constitution on the office of Sheriff of Boulder County, be modified so as to permit an elected officeholder in that office to seek and, if the voters of Boulder County choose to re-elect that person to a fourth term in office, to serve a fourth consecutive term?</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p>YEAR ANITH A MATURITY DATE NOT TO EXCEED EARS FROM THE RESPECTIVE DATES OSUANCE.</p> <p>SHALL S BONDS BE ISSUED, DATED, AND SOU SUCH TIME OR TIMES AND IN SUCH MER AND CONTAIN SUCH TERMS, INCONSISTENT HEREWITH, AS THE (COUNCIL MAY DETERMINE, SUCH BG TO BE PAYABLE FROM ANY LEGALL WILABLE FUNDS IN THE CITY'S GENERAND, AND</p> <p>IN CONNNION THEREWITH SHALL ANY EARNINCOM THE INVESTMENT OF THE PROCEEDS SUCH BONDS (REGARDS OF THE AMOUNT) CONSTIT A VOTER-APPROVED REVENUANGE AND AN EXCEPTION TO THE REVE AND SPENDING LIMITS OF ARTICLEECTION 20 OF THE COLORADO CONSTINON?</p> <p><input type="checkbox"/> F THE MEASURE</p> <p><input checked="" type="checkbox"/> #INST THE MEASURE</p> <p><b>CITY OULDER BALLOSUE NO. 2B</b> INCREASE AND EXTEND THE UTILITY OCCUPAM TAX</p> <p>SHALL C OF BOULDER TAXES BE INCREASES 1,900,000 ANNUALLY (IN THE FIRST YE THROUGH AN INCREASE OF UP TO THE AMOUNT IN THE CURRENT UTILITY (PATION TAX WITH THE ANNUAL REASE BEING FOR THE PURPOSES FUNDING THE COSTS OF FURTHERPLORATION OF AND PLANNING BOTH THE CREATION OF A MUNICIPAL ELECTRIC UTILITY AND ACQUIRIN EXISTING ELECTRIC DISTRIBIN SYSTEM, AND SHALL THE CITY'S UY OCCUPATION TAX BE EXTENDROM ITS CURRENT EXPIRA DATE OF DECEMBER 31, 2015 AND EXPON THE EARLIER OF: (1) DECEMBER 1, 2017, (2) WHEN THE CITY DECIDES T TO CREATE A MUNICIPAL UTILITY, 3) WHEN IT COMMENCES DELIVER MUNICIPAL ELECTRIC UTILITY SERVICE WITH THE EXTENSION OF THE EXISTING BEING USED TO CONTINUE TO SUPP LOCAL GOVERNMENT SERVICE AND SHALL THE REVENUE FROM S TAX INCREASE AND EXTENSAND ALL EARNINGS THEREON (REGARDS OF AMOUNT) CONSTITUTE A VOTER AOVED REVENUE CHANGE, AND AN EPTION TO THE REVENUE AND SPENDING LIMITS OF ARTICLE X, SECTION 20 OF T COLORADO CONSTITUTION?</p> <p><input type="checkbox"/> F THE MEASURE</p> <p><input checked="" type="checkbox"/> #INST THE MEASURE</p>	<p><b>City of Boulder Council Candidates</b></p> <p>Following are the candidates for City Council. 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Keenan</p> <p><input type="checkbox"/> Dan King</p> <p><input type="checkbox"/> Lisa Morzel</p> <p><input type="checkbox"/> Tim Plass</p> <p><input checked="" type="checkbox"/> Ken Wilson</p> <p><input checked="" type="checkbox"/> Daniel Ziskin</p>	<p>INCREASED TAX RATES BE SPENT ONLY TO FUND PUBLIC EDUCATION FROM PRESCHOOL THROUGH TWELFTH GRADE AND PUBLIC POSTSECONDARY EDUCATION; SPECIFYING THAT THE APPROPRIATION OF THE ADDITIONAL TAX REVENUES BE IN ADDITION TO AND NOT SUBSTITUTED FOR MONEYS OTHERWISE APPROPRIATED FOR PUBLIC EDUCATION FROM PRESCHOOL THROUGH TWELFTH GRADE AND PUBLIC POSTSECONDARY EDUCATION FOR THE 2011-12 FISCAL YEAR; AND ALLOWING THE ADDITIONAL TAX REVENUES TO BE COLLECTED, KEPT, AND SPENT NOTWITHSTANDING ANY LIMITATIONS PROVIDED BY LAW?</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p><b>County Question 1A:</b> [Modification of term limits for the office of the Boulder County Sheriff]</p> <p>Shall the term limits imposed by state law and in article XVIII, section 11, of the Colorado Constitution on the office of Sheriff of Boulder County, be modified so as to permit an elected officeholder in that office to seek and, if the voters of Boulder County choose to re-elect that person to a fourth term in office, to serve a fourth consecutive term?</p> <p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p>SHALL SUCH BONDS AND SOLD AT SUCH SUCH MANNER AND TERMS, NOT INCOME AS THE CITY COUNIC SUCH BONDS TO BE LEGALLY AVAILABLE GENERAL FUND; ANI</p> <p>IN CONNECTION THE EARNINGS FROM TH PROCEEDS OF SUCH (REGARDLESS OF T) CONSTITUTE A VOTE REVENUE CHANGE I THE REVENUE AND I ARTICLE X, SECTION CONSTITUTION?</p> <p><input type="checkbox"/> FOR THE I</p> <p><input checked="" type="checkbox"/> AGAINST I</p> <p><b>CITY OF BOULDEF BALLOT ISSUE NC INCREASE AND EXT OCCUPATION TAX</b></p> <p>SHALL CITY OF BOUL INCREASED \$1,900,000 FIRST YEAR) THROU UP TO THAT AMOUN UTILITY OCCUPATIO ANNUAL INCREASE I PURPOSE OF FUNDI FURTHER EXPLORA PLANNING FOR BOTH MUNICIPAL ELECTRE ACQUIRING AN EXIS DISTRIBUTION SYST CITY'S UTILITY OOC EXTENDED FROM ITS EXPIRATION DATE O AND EXPIRE ON THE DECEMBER 31, 2017, DECIDES NOT TO OF UTILITY, OR (2) WHEN DELIVERY OF MUNIC SERVICES; WITH THE EXISTING TAX BEING TO SUPPORT LOCAL SERVICES, AND SHAFROM SUCH TAX INC EXTENSION AND ALL (REGARDLESS OF A) VOTER, APPROVED I AN EXCEPTION SPENDING LIMITS OI 20 OF THE COLORAC</p> <p><input checked="" type="checkbox"/> FOR THE I</p> <p><input type="checkbox"/> AGAINST I</p>
<p><b>Boulder Valley School District Director District A (4 Years)</b></p> <p>Vote for One (1)</p> <p><input type="checkbox"/> Shelly Benford</p> <p><b>Boulder Valley School District Director District C (4 Years)</b></p> <p>Vote for One (1)</p> <p><input type="checkbox"/> Laurie Abright</p> <p><input type="checkbox"/> Leletha L. Corners Bausar</p> <p><b>Boulder Valley School District Director District D (4 Years)</b></p> <p>Vote for One (1)</p> <p><input type="checkbox"/> Sam Fuqua</p> <p><input type="checkbox"/> Monica Olguin</p> <p><b>Boulder Valley School District Director District G (4 Years)</b></p> <p>Vote for One (1)</p> <p><input type="checkbox"/> James Rood</p>			<p><b>Boulder Valley School District Director District A (4 Years)</b></p> <p>Vote for One (1)</p> <p><input type="checkbox"/> Shelly Benford</p> <p><b>Boulder Valley School District Director District C (4 Years)</b></p> <p>Vote for One (1)</p> <p><input type="checkbox"/> Laurie Abright</p> <p><input type="checkbox"/> Leletha L. Corners Bausar</p> <p><b>Boulder Valley School District Director District D (4 Years)</b></p> <p>Vote for One (1)</p> <p><input type="checkbox"/> Sam Fuqua</p> <p><input type="checkbox"/> Monica Olguin</p> <p><b>Boulder Valley School District Director District G (4 Years)</b></p> <p>Vote for One (1)</p> <p><input type="checkbox"/> James Rood</p>		

Below are examples of the incomplete, hesitant & stray marks that occurred. Because no more than five boxes were filled in, no overvote was created and the contest was not flagged for judge resolution.

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<p><b>Boulder Valley School District Director District A (4 Years)</b></p> <p>Vote for One (1)  <input type="checkbox"/> Shelly Benford</p>		<p><b>CITY OF BOULDER BALLOT ISSUE NO. 2B INCREASE AND EXTEND THE UTILITY OCCUPATION TAX</b></p> <p>SHALL CITY OF BOULDER TAXES BE INCREASED \$1,900,000 ANNUALLY (IN THE FIRST YEAR) THROUGH AN INCREASE OF UP TO THAT AMOUNT IN THE CURRENT UTILITY OCCUPATION TAX WITH THE ANNUAL INCREASE BEING FOR THE PURPOSE OF FUNDING THE COSTS OF FURTHER EXPLORATION OF AND PLANNING FOR BOTH THE CREATION OF A MUNICIPAL ELECTRIC UTILITY AND ACQUIRING AN EXISTING ELECTRIC DISTRIBUTION SYSTEM, AND SHALL THE CITY'S UTILITY OCCUPATION TAX BE EXTENDED FROM ITS CURRENT EXPIRATION DATE OF DECEMBER 31, 2015 AND EXPIRE ON THE EARLIER OF: (1) DECEMBER 31, 2017, (2) WHEN THE CITY DECIDES NOT TO CREATE A MUNICIPAL UTILITY, OR (3) WHEN IT COMMENCES DELIVERY OF MUNICIPAL ELECTRIC UTILITY SERVICES, WITH THE EXTENSION OF THE EXISTING TAX BEING USED TO CONTINUE TO SUPPORT LOCAL GOVERNMENT SERVICES, AND SHALL THE REVENUE FROM SUCH TAX INCREASE AND EXTENSION AND ALL EARNINGS THEREON (REGARDLESS OF AMOUNT) CONSTITUTE A VOTER APPROVED REVENUE CHANGE, AND AN EXCEPTION TO THE REVENUE AND SPENDING LIMITS OF ARTICLE X, SECTION 20 OF THE COLORADO CONSTITUTION?</p> <p><input type="checkbox"/> FOR THE MEASURE  <input checked="" type="checkbox"/> AGAINST THE MEASURE</p>
<p><b>Boulder Valley School District Director District C (4 Years)</b></p> <p>Vote for One (1)  <input type="checkbox"/> Laurie Albright  <input type="checkbox"/> Leisha L. Connors Bauer</p>		
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<p><b>Boulder Valley School District          Director District A (4 Years)</b></p> <p>Vote for One (1)  <input checked="" type="checkbox"/> Shelly Benford</p>		
<p><b>Boulder Valley School District          Director District C (4 Years)</b></p> <p>Vote for One (1)  <input type="checkbox"/> Laurie Albright  <input checked="" type="checkbox"/> Leisha L. Connors Bauer</p>	<p><input type="checkbox"/> Ronald M. Chase  <input checked="" type="checkbox"/> Mark Gelband  <input type="checkbox"/> Fenno Hoffman</p>	<p>ING AN EXISTING ELECTRIC UTILITY SYSTEM, AND SHALL THE UTILITY OCCUPATION TAX BE EXTENDED FROM ITS CURRENT EXPIRATION DATE OF DECEMBER 31, 2017, (2) WHEN THE CITY DECIDES NOT TO CREATE A MUNICIPAL ELECTRIC UTILITY, OR (3) WHEN IT COMMENCES DELIVERY OF MUNICIPAL ELECTRIC UTILITY SERVICES, WITH THE EXTENSION OF THE EXISTING TAX BEING USED TO CONTINUE TO SUPPORT LOCAL GOVERNMENT SERVICES, AND SHALL THE REVENUE FROM SUCH TAX INCREASE AND EXTENSION AND ALL EARNINGS THEREON (REGARDLESS OF AMOUNT) CONSTITUTE A VOTER APPROVED REVENUE CHANGE, AND AN EXCEPTION TO THE REVENUE AND SPENDING LIMITS OF ARTICLE X, SECTION 20 OF THE COLORADO CONSTITUTION?</p>
<p><b>Boulder Valley School District          Director District D (4 Years)</b></p> <p>Vote for One (1)  <input type="checkbox"/> Sam Fuqua  <input checked="" type="checkbox"/> Mónica Olguin</p>	<p><input type="checkbox"/> Jonathan R. Hondorf  <input checked="" type="checkbox"/> Kevin Hotaling</p>	
<p><b>Boulder Valley School District          Director District G (4 Years)</b></p> <p>Vote for One (1)  <input checked="" type="checkbox"/> James Reed</p>	<p><input checked="" type="checkbox"/> Tom Johnston</p>	
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<p><b>Boulder Valley School District          Director District D (4 Years)</b></p> <p>Vote for One (1)  <input type="checkbox"/> Sam Fuqua  <input type="checkbox"/> Mónica Olguin</p>		
<p><b>Boulder Valley School District          Director District G (4 Years)</b></p> <p>Vote for One (1)  <input type="checkbox"/> James Reed</p>		
		<p><input type="checkbox"/> FOR THE MEASURE  <input checked="" type="checkbox"/> AGAINST THE MEASURE</p>

<p><b>City of Boulder Council Candidates</b></p> <p>Following are the candidates for City Council. You may vote for up to five (5) candidates. If you vote for five (5) or less, your votes in this race will be counted. If you vote for more than five (5), your votes in this race will not be counted.</p> <p><input type="checkbox"/> Ronald M. Chase</p> <p><input type="checkbox"/> Mark Gelband</p> <p><input type="checkbox"/> Fenno Hoffman</p> <p><input checked="" type="checkbox"/> Jonathan R. Hondorf</p> <p><input type="checkbox"/> Kevin Hotaling</p> <p><input type="checkbox"/> Tom Johnston</p> <p><input type="checkbox"/> Suzanne Jones</p> <p><input type="checkbox"/> George Karakehian</p> <p><input type="checkbox"/> Stephen F. Keenan</p> <p><input type="checkbox"/> Dan King</p> <p><input type="checkbox"/> Lisa Morzel</p> <p><input type="checkbox"/> Tim Plass</p> <p><input type="checkbox"/> Ken Wilson</p> <p><input type="checkbox"/> Daniel Ziskin</p>	<p>INCREASED TAX RATES BE SPENT ONLY TO FUND PUBLIC EDUCATION FROM PRESCHOOL THROUGH TWELFTH GRADE AND PUBLIC POSTSECONDARY EDUCATION, SPECIFYING THAT THE APPROPRIATION OF THE ADDITIONAL</p> <p><input type="checkbox"/> Fenno Hoffman</p> <p><input checked="" type="checkbox"/> Jonathan R. Hondorf</p> <p><input type="checkbox"/> Kevin Hotaling</p> <p>YEAR AND WITH A MATURITY DATE NOT TO EXCEED 20 YEARS FROM THE RESPECTIVE DATES OF ISSUANCE;</p> <p>SHALL SUCH BONDS BE ISSUED, DATED, AND SOLD AT SUCH TIME OR TIMES AND IN SUCH MANNER AND CONTAIN SUCH PROVISIONS AS TO BE PAYABLE FROM ANY AVAILABLE FUNDS IN THE CITY'S GENERAL FUND; AND</p> <p>SECTION THEREWITH SHALL ANY PROCEEDS FROM THE INVESTMENT OF THE PROCEEDS OF SUCH BONDS (LESS OF THE AMOUNT) CONSTITUTE A VOTER APPROVED REVENUE CHANGE AND AN EXCEPTION TO THE REVENUE AND SPENDING LIMITS OF ARTICLE X, SECTION 20 OF THE COLORADO CONSTITUTION?</p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p><b>County Question 1A:</b> [Modification of term limits for the office of the Boulder County Sheriff]</p> <p>Shall the term limits imposed by state law and in article XVIII, section 11, of the Colorado Constitution on the office of Sheriff of Boulder County, be modified so as to permit an elected Sheriff in that office to seek and, if the voters of Boulder County choose to re-elect that person to a fourth term in office, to serve a fourth consecutive term?</p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p>CITY OF BOULDER BALLOT ISSUE NO. 2B INCREASE AND EXTEND THE UTILITY OCCUPATION TAX</p> <p>SHALL CITY OF BOULDER TAXES BE INCREASED \$1,000,000 ANNUALLY (IN THE FIRST YEAR) THROUGH AN INCREASE OF UP TO THAT AMOUNT IN THE CURRENT UTILITY OCCUPATION TAX WITH THE ANNUAL INCREASE BEING FOR THE PURPOSE OF FUNDING THE COSTS OF FURTHER EXPLORATION OF AND PLANNING FOR BOTH THE CREATION OF A MUNICIPAL ELECTRIC UTILITY AND ACQUIRING AN EXISTING ELECTRIC DISTRIBUTION SYSTEM, AND SHALL THE CITY'S UTILITY OCCUPATION TAX BE EXTENDED FROM ITS CURRENT EXPIRATION DATE OF DECEMBER 31, 2015 AND EXPIRE ON THE EARLIER OF: (1) DECEMBER 31, 2017, (2) WHEN THE CITY DECIDES NOT TO CREATE A MUNICIPAL UTILITY, OR (3) WHEN IT COMMENCES DELIVERY OF MUNICIPAL ELECTRIC UTILITY SERVICES, WITH THE EXTENSION OF THE EXISTING TAX BEING USED TO CONTINUE TO SUPPORT LOCAL GOVERNMENT SERVICES, AND SHALL THE REVENUE FROM SUCH TAX INCREASE AND EXTENSION AND ALL EARNINGS THEREON (REGARDLESS OF AMOUNT) CONSTITUTE A VOTER APPROVED REVENUE CHANGE, AND AN EXCEPTION TO THE REVENUE AND SPENDING LIMITS OF ARTICLE X, SECTION 20 OF THE COLORADO CONSTITUTION?</p> <p><input type="checkbox"/> FOR THE MEASURE</p> <p><input type="checkbox"/> AGAINST THE MEASURE</p>
<p><b>Boulder Valley School District Director District A (4 Years)</b></p> <p>Vote for One (1)</p> <p><input type="checkbox"/> Shelby Benford</p>	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p><input type="checkbox"/> FOR THE MEASURE</p> <p><input type="checkbox"/> AGAINST THE MEASURE</p>
<p><b>Boulder Valley School District Director District C (4 Years)</b></p> <p>Vote for One (1)</p> <p><input type="checkbox"/> Laurie Albright</p> <p><input type="checkbox"/> Leisha L. Connors Bauer</p>		
<p><b>Boulder Valley School District Director District D (4 Years)</b></p> <p>Vote for One (1)</p> <p><input type="checkbox"/> Sam Fuqua</p> <p><input type="checkbox"/> Mónica Olguin</p>		
<p><b>Boulder Valley School District Director District G (4 Years)</b></p> <p>Vote for One (1)</p> <p><input type="checkbox"/> James Reed</p>		

<p><b>City of Boulder Council Candidates</b></p> <p>Following are the candidates for City Council. You may vote for up to five (5) candidates. If you vote for five (5) or less, your votes in this race will be counted. If you vote for more than five (5), your votes in this race will not be counted.</p> <p><input type="checkbox"/> Ronald M. Chase</p> <p><input type="checkbox"/> Mark Gelband</p> <p><input type="checkbox"/> Fenno Hoffman</p> <p><input type="checkbox"/> Jonathan R. Hondorf</p> <p><input type="checkbox"/> Kevin Hotaling</p> <p><input type="checkbox"/> Tom Johnston</p> <p><input type="checkbox"/> Suzanne Jones</p> <p><input type="checkbox"/> George Karakehian</p> <p><input type="checkbox"/> Stephen F. Keenan</p> <p><input type="checkbox"/> Dan King</p> <p><input type="checkbox"/> Lisa Morzel</p> <p><input type="checkbox"/> Tim Plass</p> <p><input type="checkbox"/> Ken Wilson</p> <p><input type="checkbox"/> Daniel Ziskin</p>	<p>INCREASED TAX RATES BE SPENT ONLY TO FUND PUBLIC EDUCATION FROM PRESCHOOL THROUGH TWELFTH GRADE AND PUBLIC POSTSECONDARY EDUCATION, SPECIFYING THAT THE APPROPRIATION OF THE ADDITIONAL TAX REVENUES BE IN ADDITION TO AND NOT SUBSTITUTED FOR MONEYS OTHERWISE APPROPRIATED FOR PUBLIC EDUCATION FROM PRESCHOOL THROUGH TWELFTH GRADE AND PUBLIC POSTSECONDARY EDUCATION FOR THE 2011-12 FISCAL YEAR, AND ALLOWING THE ADDITIONAL TAX REVENUES TO BE COLLECTED, KEPT, AND SPENT NOTWITHSTANDING ANY LIMITATIONS PROVIDED BY LAW?</p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p><b>County Question 1A:</b> [Modification of term limits for the office of the Boulder County Sheriff]</p> <p>SHALL SUCH BONDS BE ISSUED, DATED AND SOLD AT SUCH TIME OR TIMES AND SUCH MANNER AND CONTAIN SUCH TERMS, NOT INCONSISTENT HERewith, AS THE CITY COUNCIL MAY DETERMINE, SUCH BONDS TO BE PAYABLE FROM AN LEGALLY AVAILABLE FUNDS IN THE CITY GENERAL FUND; AND</p> <p>IN CONNECTION THEREWITH SHALL ANY EARNINGS FROM THE INVESTMENT OF THE PROCEEDS OF SUCH BONDS (REGARDLESS OF THE AMOUNT) CONSTITUTE A VOTER APPROVED REVENUE CHANGE AND AN EXCEPTION TO THE REVENUE AND SPENDING LIMITS OF ARTICLE X, SECTION 20 OF THE COLORADO CONSTITUTION?</p> <p><input type="checkbox"/> FOR THE MEASURE</p> <p><input type="checkbox"/> AGAINST THE MEASURE</p>	<p>CITY OF BOULDER BALLOT ISSUE NO. 2B INCREASE AND EXTEND THE UTILITY OCCUPATION TAX</p> <p>SHALL CITY OF BOULDER TAXES BE INCREASED \$1,000,000 ANNUALLY (IN THE FIRST YEAR) THROUGH AN INCREASE OF UP TO THAT AMOUNT IN THE CURRENT UTILITY OCCUPATION TAX WITH THE ANNUAL INCREASE BEING FOR THE PURPOSE OF FUNDING THE COSTS OF FURTHER EXPLORATION OF AND PLANNING FOR BOTH THE CREATION OF MUNICIPAL ELECTRIC UTILITY AND ACQUIRING AN EXISTING ELECTRIC DISTRIBUTION SYSTEM, AND SHALL THE CITY'S UTILITY OCCUPATION TAX BE EXTENDED FROM ITS CURRENT EXPIRATION DATE OF DECEMBER 31, 2015 AND EXPIRE ON THE EARLIER OF: (1) DECEMBER 31, 2017, (2) WHEN THE CITY DECIDES NOT TO CREATE A MUNICIPAL UTILITY, OR (3) WHEN IT COMMENCES DELIVERY OF MUNICIPAL ELECTRIC UTILITY SERVICES, WITH THE EXTENSION OF THE EXISTING TAX BEING USED TO CONTINUE TO SUPPORT LOCAL GOVERNMENT SERVICES, AND SHALL THE REVENUE FROM SUCH TAX INCREASE AND EXTENSION AND ALL EARNINGS THEREON (REGARDLESS OF AMOUNT) CONSTITUTE A VOTER APPROVED REVENUE CHANGE, AND AN EXCEPTION TO THE REVENUE AND SPENDING LIMITS OF ARTICLE X, SECTION 20 OF THE COLORADO CONSTITUTION?</p> <p><input type="checkbox"/> FOR THE MEASURE</p> <p><input type="checkbox"/> AGAINST THE MEASURE</p>
<p><b>Boulder Valley School District Director District A (4 Years)</b></p> <p>Vote for One (1)</p> <p><input type="checkbox"/> Shelby Benford</p>	<p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p><input type="checkbox"/> FOR THE MEASURE</p> <p><input type="checkbox"/> AGAINST THE MEASURE</p>
<p><b>Boulder Valley School District Director District C (4 Years)</b></p> <p>Vote for One (1)</p> <p><input type="checkbox"/> Laurie Albright</p> <p><input type="checkbox"/> Leisha L. Connors Bauer</p>		
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<p><b>Boulder Valley School District Director District G (4 Years)</b></p> <p>Vote for One (1)</p> <p><input type="checkbox"/> James Reed</p>		

ID	Source	SYS	Batch	Candidate	Issue	Total
Review	F		43	JONES	INCOMPLETE MARK ("I")	4 *
Audit	A		41	JONES	INCOMPLETE MARK (@ Partially filled in)	*
Review	D		17	JONES	STRIKE OUT	
Review	D		44	JONES	STRIKE OUT	
Audit	A		41	MORZEL	INCOMPLETE MARK (@ Partially filled in)	10 *
Audit	A		49	MORZEL	STRIKE OUT	
Review	D		21	MORZEL	STRIKE OUT	
Review	D		44	MORZEL	STRIKE OUT	
Review	E		48	MORZEL	STRIKE OUT	
Audit	G		51	MORZEL	STRIKE OUT	
Audit	G		51	MORZEL	STRIKE OUT	
Review	G		59	MORZEL	STRIKE OUT	
Review	H		2	MORZEL	STRIKE OUT	
Audit	H		64	MORZEL	STRIKE OUT	
Audit	A		8	PLASS	STRAY MARK (X strayed into Plass target area)	4 *
Audit	D		43	PLASS	STRIKE OUT	
Review	D		54	PLASS	STRIKE OUT	
Audit	C		44	PLASS	STRIKE OUT (Only through box, not through choice)	
Audit	A		41	KARAKEHIAN	INCOMPLETE MARK (@ Partially filled in)	6 *
Review	C		58	KARAKEHIAN	HESITANT MARK (Pen rest)	
Review	A		44	KARAKEHIAN	STRIKE OUT	
Review	D		16	KARAKEHIAN	STRIKE OUT	
Audit	G		62	KARAKEHIAN	STRIKE OUT	
Review	H		35	KARAKEHIAN	STRIKE OUT	
Review	C		58	WILSON	HESITANT MARK (Pen rest)	3
Review	C		30	WILSON	STRAY MARK	
Audit	A		57	WILSON	STRIKE OUT	
Review	A		12	KING	AMBIGUOUS POSSIBLE X OUT	4 *
Audit	A		41	KING	INCOMPLETE MARK (@ Partially filled in)	*
Review	C		58	KING	HESITANT MARK (Pen rest)	
Review	G		41	KING	STRIKE OUT	
Audit	C		22, 23	ZISKIN	STRIKE OUT	3
Audit	G		16	ZISKIN	STRIKE OUT	
Audit	G		51	ZISKIN	STRIKE OUT	
Audit	G		72	HONDORF	HESITANT MARK ("?" in target area; other choices filled in)	4 *
Review	F		43	HONDORF	INCOMPLETE MARK ("I")	
Audit	D		43	HONDORF	STRIKE OUT	
Review	D		50	HONDORF	STRIKE OUT	
Audit	E		55	HOFFMAN	STRIKE OUT	3
Audit	H		8	HOFFMAN	STRIKE OUT	
Audit	H		67	HOFFMAN	STRIKE OUT	
Audit	D		38	JOHNSTON	HESITANT MARK (Pen rest)	2
Review	F		4	JOHNSTON	STRIKE OUT	
Audit	D		38	GELBAND	HESITANT MARK (Pen rest)	3
Review	D		22	GELBAND	STRIKE OUT	
Audit	G		75	GELBAND	STRIKE OUT	
Review	E		48	HOTALING	STRIKE OUT	2
Review	G		33	HOTALING	STRIKE OUT	
Audit	D		42	KEENAN	HESITANT MARK (Started to fill in)	4
Audit	G		78	KEENAN	STRAY MARK (Marker smudge in target area for Keenan)	
Audit	A		47	KEENAN	STRIKE OUT	
Review	D		47	KEENAN	STRIKE OUT	
Review	D		13	CHASE	STRIKE OUT	1

Batches Reviewed	Ballots Reviewed	Boulder City	Already Audited	Net Reviewed
A: 72-1	10,646	3,028	1,197	1,831
B: 69-51	2,847	852	461	391
C: 68-27	6,298	2,377	1,121	1,256
D: 58-1	8,247	2,920	1,331	1,589
E: 79-32	6,350	1,875	836	1,039
F: 75-1	11,101	3,352	1,321	2,031
G: 83-28	8,717	3,062	1,652	1,410
H: 76-1	10,328	3,844	1,737	2,107
	<b>64,534</b>	<b>21,310</b>	<b>9,656</b>	

Net additional ballots reviewed in Ballot Now 11,654

Total Discrepancies Identified 53

\* Resolution discrepancy was attributed to a difference in opinion of voter intent

2011 Coordinated Election Audit Discrepancy Review

Sorted winners	Candidate	Votes	Margin	Take away .005 from winner	Mandatory recount	What would margin need to be?	Net Change required	Resolution discrepancies	Discrepancy Rate	Adjusted Margin	Does it trigger recount?
1	Jones	12,993		12,928.04				4	0.000307858		
2	Morzel	12,410	583	12,347.95	No	64.965	518.035	10	0.000805802	589	No
3	Plass	10,552	1858	10,499.24	No	62.05	1795.95	4	0.000379075	1852	No
4	<b>Karakehian</b>	<b>10,066</b>	<b>486</b>	<b>10,015.67</b>	<b>No</b>	<b>52.76</b>	<b>433.24</b>	<b>6</b>	<b>0.000596066</b>	<b>488</b>	<b>No</b>
5	<b>Wilson</b>	<b>9,990</b>	<b>76</b>	<b>9,940.05</b>	<b>No</b>	<b>50.33</b>	<b>25.67</b>	<b>3</b>	<b>0.000300300</b>	<b>73</b>	<b>No</b>
6	King	8,654	1336	8,610.73	No	49.95	1286.05	4	0.000462214	1337	No
7	Ziskin	7,129	1525	7,093.36	No	43.27	1481.73	3	0.000420816	1524	No
8	Hondorf	6,657	472	6,623.72	No	35.645	436.355	4	0.000600871	473	No
9	Hoffman	6,616	41	6,582.92	No	33.285	7.715	3	0.000453446	40	No
10	Johnston	3,778	2838	3,759.11	No	33.08	2804.92	2	0.000529381	2837	No
11	Gelband	3,551	227	3,533.25	No	18.89	208.11	3	0.000844832	228	No
12	Hotaling	1,897	1654	1,887.52	No	17.755	1636.245	2	0.001054296	1653	No
13	Keenan	640	1257	636.80	No	9.485	1247.515	4	0.006250000	1259	No
		<b>94,933</b>									

	Counts	Discrepancy Count	Discrepancy Rate	
Ballots Audited	<b>26,870</b>	<b>27</b>	<b>0.001004838</b>	
Boulder City Ballots Audited	<b>10,938</b>	<b>27</b>	<b>0.002468459</b>	
<b>Boulder City Option Boxes Audited</b>	<b>153,132</b>	<b>27</b>	<b>0.000176318</b>	
Ballots Visually Inspected in Ballot Now	<b>64,534</b>	<b>26</b>	<b>0.000402888</b>	
Boulder City Ballots Inspected in Ballot Now	<b>21,310</b>	<b>26</b>	<b>0.001220084</b>	
Boulder City Option Boxes Inspected in Ballot Now	<b>298,340</b>	<b>26</b>	<b>0.000087149</b>	
Net Boulder City Ballots Inspected w/ audited ballots excluded	<b>11,654</b>	<b>26</b>	<b>0.002230994</b>	
<b>Net Boulder City Option Boxes Inspected w/ audited ballots excluded</b>	<b>163,156</b>	<b>26</b>	<b>0.000159357</b>	
<b>Totals:</b>	<b>316,288</b>	<b>53</b>	<b>0.000167569</b>	Boulder City Combined Error Rate
All Other Contests Audited	15,932	0	0.000000000	
<b>All Other Option Boxes Audited</b>	<b>31864</b>	<b>0</b>	<b>0.000000000</b>	
<b>Totals:</b>	<b>348,152</b>	<b>53</b>	<b>0.000152232</b>	Combined Error Rate



Contest	W	L	Margin W - L	V = W + L	Recount Threshold 0.005*W	Discrepancy Adjustment (1.995*U*V)	Recount Threshold with Discrepancy Adjustment Included	How close is margin to new threshold? M/threshold
Boulder Council Candidates (Vote for 5)	9,961	9,883	78	19,844	49.805	6.6338	56.4388	1.3820
Lafayette Council Candidates (Vote for 6)	2,564	2,202	362	4,766	12.82	1.5933	14.4133	25.1157
Longmont Mayor	10,559	10,393	166	20,952	52.795	7.0042	59.7992	2.7760
Longmont Council Member At-Large	7,307	5,431	1,876	12,738	36.535	4.2583	40.7933	45.9879
Longmont Council Member Ward 1	2,585	1,706	879	4,291	12.925	1.4345	14.3595	61.2139
Longmont Council Member Ward 3	3,644	2,123	1,521	5,767	18.22	1.9279	20.1479	75.4917
Louisville Mayor At-Large	3,015	2,806	209	5,821	15.075	1.9460	17.0210	12.2790
Louisville City Council Person Ward I	1,059	863	196	1,922	5.295	0.6425	5.9375	33.0104
Louisville City Council Person Ward II	1,452	419	1,033	1,871	7.26	0.6255	7.8855	131.0004
Louisville City Council Person Ward III UNOPPOSED	1,416	0	1,416	1,416	7.08	0.4734	7.5534	187.4660
Boulder Valley School District A UNOPPOSED	25,235	0	25,235	25,235	126.175	8.4361	134.6111	187.4660
Boulder Valley School District C	21,199	8,362	12,837	29,561	105.995	9.8822	115.8772	110.7810
Boulder Valley School District D	17,262	13,472	3,790	30,734	86.31	10.2744	96.5844	39.2403
Boulder Valley School District G UNOPPOSED	24,953	0	24,953	24,953	124.765	8.3418	133.1068	187.4660
Park School At Large (Vote for 3) UNOPPOSED	92	89	3	181	0.46	0.0605	0.5205	5.7636
St. Vrain Valley School District A	13,332	6,459	6,873	19,791	66.66	6.6161	73.2761	93.7959
St. Vrain Valley School District C UNOPPOSED	16,325	0	16,325	16,325	81.625	5.4574	87.0824	187.4660
St. Vrain Valley School District E UNOPPOSED	16,769	0	16,769	16,769	83.845	5.6059	89.4509	187.4660
St. Vrain Valley School District G UNOPPOSED	16,166	0	16,166	16,166	80.83	5.4043	86.2343	187.4660
Thompson School District A	31	15	16	46	0.155	0.0154	0.1704	93.9090
Thompson School District B UNOPPOSED	37	0	37	37	0.185	0.0124	0.1974	187.4660
Thompson School District C UNOPPOSED	36	0	36	36	0.18	0.0120	0.1920	187.4660
Thompson School District D UNOPPOSED	36	0	36	36	0.18	0.0120	0.1920	187.4660
Thompson School District G	30	19	11	49	0.15	0.0164	0.1664	66.1134
Proposition 103 (STATUTORY)	43,910	36,501	7,409	80,411	219.55	26.8814	246.4314	30.0652
County Question 1A:	46,193	30,363	15,830	76,556	230.965	25.5927	256.5577	61.7015
BOULDER BALLOT ISSUE NO. 2A	19,114	6,402	12,712	25,516	95.57	8.5300	104.1000	122.1134
BOULDER BALLOT ISSUE NO. 2B	13,143	12,997	146	26,140	65.715	8.7386	74.4536	1.9610
Boulder Ballot Question No. 2C	13,560	12,624	936	26,184	67.8	8.7533	76.5533	12.2268
Boulder Ballot Question No. 2D	20,088	2,596	17,492	22,684	100.44	7.5833	108.0233	161.9281
Boulder Ballot Question No. 2E	15,223	6,428	8,795	21,651	76.115	7.2379	83.3529	105.5152
Boulder Ballot Question No. 2F	20,235	2,164	18,071	22,399	101.175	7.4880	108.6630	166.3032
Boulder Ballot Question No. 2G	17,490	4,703	12,787	22,193	87.45	7.4191	94.8691	134.7857
Boulder Ballot Question No. 2H	18,397	6,557	11,840	24,954	91.985	8.3421	100.3271	118.0140
Lafayette Question No. 2A	3,275	1,961	1,314	5,236	16.375	1.7504	18.1254	72.4950
Lafayette Question No. 2B	3,348	2,019	1,329	5,367	16.74	1.7942	18.5342	71.7053
Lafayette Question No. 2C	3,064	2,160	904	5,224	15.32	1.7464	17.0664	52.9696
Lafayette Question No. 2D	4,596	602	3,994	5,198	22.98	1.7377	24.7177	161.5847
Lafayette Question No. 2E	4,676	574	4,102	5,250	23.38	1.7551	25.1351	163.1982
Longmont Ballot Question 2A	13,239	8,531	4,708	21,770	66.195	7.2777	73.4727	64.0782
Longmont Ballot Question 2B	12,168	6,282	5,886	18,450	60.84	6.1678	67.0078	87.8405
THOMPSON SCHOOL BALLOT ISSUE 3A	51	20	31	71	0.255	0.0237	0.2787	111.2166
PARK SCHOOL BALLOT ISSUE 3B	136	92	44	228	0.68	0.0762	0.7562	58.1841
COAL CREEK ISSUE NO. 4A	188	152	36	340	0.94	0.1137	1.0537	34.1666
COAL CREEK ISSUE NO. 4B	187	151	36	338	0.935	0.1130	1.0480	34.3514
PINE BROOK HILLS ISSUE 5A:	420	84	336	504	2.1	0.1685	2.2685	148.1163
CRESTVIEW ESTATES ISSUE 5B:	139	21	118	160	0.695	0.0535	0.7485	157.6512
Mountains Forest Question 5C:	3,272	2,285	987	5,557	16.36	1.8577	18.2177	54.1781
Rocky Mountain Fire Ballot Question 5D	2,107	2,009	98	4,116	10.535	1.3760	11.9110	8.2277

U =  
Combined  
Discrepancy Rate  
Derived from City of  
Boulder Council Race  
**0.000167569**

U=uncertainty as a % of V  
Assume worse-case and that all U is  
such to reduce M  
  
Without uncertainty, the recount  
equation is  $M \leq 0.005W$   
With worse-case uncertainty the  
recount equation becomes  
 $(W-UV) - (L+UV) \leq 0.005(W-UV)$   
or  
 $W-UV-L-UV \leq 0.005W - 0.005UV$   
or  
 $W-L-2UV \leq 0.005W - 0.005UV$   
or  
 $M \leq 0.005W + 1.995UV$   
  
For this year's audit we have chosen to  
apply the combined error rate derived  
from the Boulder City Council Race.



# Office of the Clerk & Recorder

1750 33rd Street · Boulder, CO 80301 · [www.BoulderCounty.org](http://www.BoulderCounty.org)

Hillary Hall, Boulder County Clerk & Recorder

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November 14, 2011

The 2011 Coordinated Election audit reviewed six races/issues. A total of 26,870 individual contests were audited. No issues were identified that impacted the outcome of any contest.

The only audit discrepancies identified were associated with the Boulder City Council race. In the Boulder City Council race, a few voters crossed out one or more candidates' names but undervoted the contest and therefore the system did not automatically detect and flag these ballots for resolution. This issue is applicable only in contests where voters can vote for more than one choice. In addition, there were unintentional and ambiguous marks that caused discrepancies. The error rate for the 10,938 Boulder City Council ballots audited was .000189. It is important to note that all discrepancies identified in the audit would be identified in a recount.

The information was presented to the audit board and it was decided that a minimum of 5,000 additional Boulder City Council ballots would be reviewed for the strike-out/undervote issue to verify the error rate. An additional 63,242 ballot images were reviewed and the audit board concluded that the discrepancies identified did not impact the outcome of the City of Boulder contest.


The only other contest in Boulder County that allowed voters to vote for more than one choice was the Lafayette City Council race. While this race was not initially selected as part of the audit, staff reviewed this race after discovering the Boulder City Council strike-out/undervote discrepancies. In reviewing the impact to the Lafayette City Council race, staff applied the error rate from the Boulder City Council race in conjunction with the wide margin and a sample set review of ballots. This issue had no impact on the outcome for the Lafayette City Council race and no additional audit was necessary.

The audit board concludes that the 2011 Coordinated Election Audit verifies no change in the election outcome and therefore does not recommend any recounts for the 2011 Coordinated Election.

The 2011 Coordinated Election audit board accepts the results of the audit, as presented by the Boulder County Clerk and Recorder's office.

  
Alisa Lewis Canvass Board Representative 11/14/2011  
Date

  
Valeria Skitt Canvass Board Representative 11-14-2011  
Date

  
Hillary Hall Boulder County Clerk & Recorder 11-14-2011  
Date