STATE OF NORTH CAROLINA COUNTY OF WAKE	IN THE GENERAL COURT OF JUSTICE SUPERIOR COURT DIVISION 21 CVS 015426
NORTH CAROLINA LEAGUE OF CONSERVATION VOTERS, INC., et al., REBECCA HARPER, et al., COMMON CAUSE, *Plaintiffs,* v. REPRESENTATIVE DESTIN HALL, in his official capacity as Chair of the House Standing Committee on Redistricting, et al. *Defendants.*	**INDEX OF EXHIBITS** **TO** **AFFIDAVIT OF CHRISTOPHER DALTON KETCHIE**

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EXHIBIT 1
TO KETCHIE AFFIDAVIT
(RPV for 2021 Enacted House District 10)

RPV in HD10 (SL 2021-175) - Raymond E. Smith Jr.

	Beasley vs. Newby - NC Supreme Court 2020GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (0)	≥ 90% White Precincts (0)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Beasley			100.00%	16.41%	99.12%	6.83%	95.31%	11.65%	46.89%
Newby			0.00%	83.59%	0.86%	93.06%	4.69%	88.35%	53.11%

	Holmes vs. Dobson - NC Commissioner of Labor 2020GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (0)	≥ 90% White Precincts (0)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Holmes			100.00%	14.74%	99.24%	5.67%	96.35%	9.75%	46.31%
Dobson			0.00%	85.26%	1.43%	94.34%	3.65%	90.25%	53.69%

	Blue vs. Folwell - NC Treasurer 2016GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (0)	≥ 90% White Precincts (0)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Blue			100.00%	15.22%	98.33%	11.34%	96.26%	14.78%	46.45%
Folwell			0.00%	84.79%	0.96%	88.74%	3.74%	85.22%	53.55%

	Coleman vs. Forest vs. Cole - Lt. Governor 2016GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (0)	≥ 90% White Precincts (0)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Coleman			100.00%	11.99%	98.57%	7.33%	95.73%	11.25%	43.98%
Forest*			0.00%	88.01%	0.94%	92.82%	4.27%	88.75%	56.02%

*Combined Election Results for Republican Candidate Dan Forest and Libertarian Candidate Jacki Cole

EXHIBIT 2
TO KETCHIE AFFIDAVIT
(RPV for remedial House District 10)

RPV in HD10 (Remedial) - Raymond E. Smith Jr.

	Beasley vs. Newby - NC Supreme Court 2020GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (0)	≥ 90% White Precincts (0)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Beasley			100.00%	20.27%	99.30%	8.62%	96.10%	14.67%	53.99%
Newby			0.00%	79.73%	1.16%	91.65%	3.90%	85.33%	46.01%

	Holmes vs. Dobson - NC Commissioner of Labor 2020GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (0)	≥ 90% White Precincts (0)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Holmes			100.00%	18.32%	98.82%	7.30%	95.95%	12.43%	53.53%
Dobson			0.00%	81.68%	1.00%	92.92%	4.05%	87.57%	46.47%

	Blue vs. Folwell - NC Treasurer 2016GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (0)	≥ 90% White Precincts (0)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Blue			100.00%	18.32%	99.17%	13.24%	97.38%	16.99%	54.24%
Folwell			0.00%	81.68%	1.35%	87.23%	2.62%	83.01%	45.76%

	Coleman vs. Forest vs. Cole - Lt. Governor 2016GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (0)	≥ 90% White Precincts (0)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Coleman			100.00%	15.71%	99.20%	9.30%	96.31%	13.67%	52.16%
Forest*			0.00%	84.29%	1.05%	90.95%	3.69%	86.33%	47.84%

*Combined Election Results for Republican Candidate Dan Forest and Libertarian Candidate Jacki Cole

EXHIBIT 3
TO KETCHIE AFFIDAVIT
(RPV for 2021 Enacted Senate District 4)

RPV in SD4 (SL 2021-173) - Milton "Toby" Fitch Jr.

	Beasley vs. Newby - NC Supreme Court 2020GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (1)	≥ 90% White Precincts (0)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Beasley	94.90%		99.31%	18.74%	98.70%	8.55%	97.38%	10.95%	48.28%
Newby	5.10%		0.69%	81.26%	1.08%	91.40%	2.62%	89.05%	51.72%

	Holmes vs. Dobson - NC Commissioner of Labor 2020GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (1)	≥ 90% White Precincts (0)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Holmes	95.87%		100.00%	16.96%	99.15%	7.28%	97.96%	8.45%	47.68%
Dobson	4.13%		0.00%	83.04%	0.02%	92.70%	2.04%	91.55%	52.32%

	Blue vs. Folwell - NC Treasurer 2016GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (2)	≥ 90% White Precincts (1)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Blue	96.55%	15.82%	100.00%	17.62%	99.03%	13.55%	97.42%	15.86%	48.71%
Folwell	3.45%	84.18%	0.00%	82.38%	0.87%	86.26%	2.58%	84.14%	51.29%

	Coleman vs. Forest vs. Cole - Lt. Governor 2016GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (2)	≥ 90% White Precincts (1)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Coleman	96.76%	13.79%	99.86%	14.28%	99.20%	9.89%	97.87%	11.68%	46.32%
Forest*	3.24%	86.21%	0.14%	85.72%	1.06%	90.23%	2.13%	88.32%	51.96%

*Combined Election Results for Republican Candidate Dan Forest and Libertarian Candidate Jacki Cole

EXHIBIT 4
TO KETCHIE AFFIDAVIT
(RPV for remedial Senate District 4)

RPV in SD4 (Remedial) - Milton "Toby" Fitch Jr.

	Beasley vs. Newby - NC Supreme Court 2020GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (4)	≥ 90% White Precincts (0)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Beasley	95.53%		99.34%	18.61%	99.24%	9.24%	98.09%	11.41%	52.96%
Newby	4.47%		0.66%	81.39%	0.85%	90.74%	1.91%	88.59%	47.04%

	Holmes vs. Dobson - NC Commissioner of Labor 2020GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (4)	≥ 90% White Precincts (0)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Holmes	96.09%		100.00%	16.78%	99.08%	8.15%	98.41%	9.30%	52.42%
Dobson	3.91%		0.00%	83.22%	0.93%	92.02%	1.59%	90.70%	47.58%

	Blue vs. Folwell - NC Treasurer 2016GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (6)	≥ 90% White Precincts (1)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Blue	96.08%	15.82%	100.00%	17.89%	99.26%	14.62%	98.12%	16.68%	54.32%
Folwell	3.92%	84.18%	0.00%	82.11%	0.73%	85.37%	1.88%	83.32%	45.68%

	Coleman vs. Forest vs. Cole - Lt. Governor 2016GEN								
	Homogeneous Precincts		Ecological Regression		King's Iterative Ecological Inference		RxC Ecological Inference		Percent Vote
	≥ 90% Black Precincts (6)	≥ 90% White Precincts (1)	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	Support from Black Voters	Support from White Voters	
Coleman	95.63%	13.79%	99.63%	14.30%	99.15%	10.39%	97.93%	11.69%	51.92%
Forest*	4.37%	86.21%	0.37%	85.70%	0.90%	89.41%	2.07%	88.31%	48.08%

*Combined Election Results for Republican Candidate Dan Forest and Libertarian Candidate Jacki Cole

EXHIBIT 5
TO KETCHIE AFFIDAVIT
(House District 10 remedial block file)

[SLIP SHEET – FILE SUBMITTED IN NATIVE FORMAT]

EXHIBIT 6
TO KETCHIE AFFIDAVIT
(Senate District 4 remedial block file)

[SLIP SHEET – FILE SUBMITTED IN NATIVE FORMAT]

EXHIBIT 7
TO KETCHIE AFFIDAVIT
(House District 10 remedial ESRI file)

[SLIP SHEET – FILE SUBMITTED IN NATIVE FORMAT]

EXHIBIT 8
TO KETCHIE AFFIDAVIT
(Senate District 4 remedial ESRI file)

[SLIP SHEET – FILE SUBMITTED IN NATIVE FORMAT]

EXHIBIT 9

TO KETCHIE AFFIDAVIT

(House District 10 remedial P.L. 94-171 dataset)

[SLIP SHEET – FILE SUBMITTED IN NATIVE FORMAT]

EXHIBIT 10

TO KETCHIE AFFIDAVIT

(Senate District 4 remedial P.L. 94-171 dataset)

[SLIP SHEET – FILE SUBMITTED IN NATIVE FORMAT]

EXHIBIT 11
TO KETCHIE AFFIDAVIT
(House District 10 remedial “stat pack”)

User:
Plan Name: **HD10 Remedial District**
Plan Type:

Measures of Compactness Report

Friday, February 18, 2022 3:15 PM

	Reock	Polsby-Popper
Sum	N/A	N/A
Min	0.34	0.22
Max	0.54	0.35
Mean	0.44	0.29
Std. Dev.	0.14	0.09

District	Reock	Polsby-Popper
HD10	**0.54**	**0.35**
HD4	**0.34**	**0.22**

Measures of Compactness Summary

Reock	The measure is always between 0 and 1, with 1 being the most compact.
Polsby-Popper	The measure is always between 0 and 1, with 1 being the most compact.

HD10 Remedial District Partisan Composite Index

(applying the 2016-2020 Partisan Composite described at https://davesredistricting.org/maps#aboutdata)

District	Dem	Rep	Oth
Proposed Remedial House District 10	52.78%	45.38%	1.84%
Resulting House District 4	33.53%	65.03%	1.45%

User:
Plan Name: **HD10 Remedial District**
Plan Type:

Political Subdivision Splits Between Districts

Friday, February 18, 2022 3:12 PM

Number of subdivisions not split:

County	99
Voting District	2,665

Number of subdivisions split into more than one district:

County	1
Voting District	1

Number of splits involving no population:

County	0
Voting District	0

Split Counts

County
Cases where an area is split among 2 Districts: 1
Voting District
Cases where an area is split among 2 Districts: 1

County	Voting District	District	Population
Split Counties:			
Wayne NC		HD10	82,688
Wayne NC		HD4	34,645
Split VTDs:			
Wayne NC	2530	HD10	4,464
Wayne NC	2530	HD4	1,366

EXHIBIT 12
TO KETCHIE AFFIDAVIT
(Senate District 4 remedial “stat pack”)

User:
Plan Name: **SD4 Remedial District**
Plan Type:

Measures of Compactness Report

Friday, February 18, 2022 3:23 PM

	Reock	Polsby-Popper
Sum	N/A	N/A
Min	0.32	0.28
Max	0.40	0.30
Mean	0.36	0.29
Std. Dev.	0.06	0.01

District	Reock	Polsby-Popper
SD4	**0.32**	**0.28**
SD5	**0.40**	**0.30**

Measures of Compactness Summary

Reock	The measure is always between 0 and 1, with 1 being the most compact.
Polsby-Popper	The measure is always between 0 and 1, with 1 being the most compact.

SD4 Remedial District Partisan Composite Index

(applying the 2016-2020 Partisan Composite described at https://davesredistricting.org/maps#aboutdata)

District	Dem	Rep	Oth
Proposed Remedial Senate District 4	52.22%	46.18%	1.60%
Resulting Senate District 5	51.43%	46.54%	2.03%

User:
Plan Name: **SD4 Remedial District**
Plan Type:

Political Subdivision Splits Between Districts

Friday, February 18, 2022 3:24 PM

Number of subdivisions not split:	
County	99
Voting District	2,666
Number of subdivisions split into more than one district:	
County	1
Voting District	0
Number of splits involving no population:	
County	0
Voting District	0

Split Counts

County

Cases where an area is split among 2 Districts: 1

County	Voting District	District	Population
Split Counties:			
Wayne NC		SD4	89,243
Wayne NC		SD5	28,090