

# SCOTT J. RAFFERTY

ATTORNEY AT LAW

1913 WHITECLIFF COURT  
WALNUT CREEK CA 94596

(202)-380-5525  
RAFFERTY@GMAIL.COM

June 4, 2018

Mr. Matthew Duffy  
Superintendent  
West Contra Costa Unified School District

cc: Dominic Spinelli, Esq.  
Dr. Fatima Alleyne

VIA ELECTRONIC MAIL

Dear Mr. Duffy and Dr. Alleyne:

I am pleased to submit the following map as the plaintiffs' proposal for boundary changes that can be submitted to the registrar by the statutory time limit of July 5, 2018 for implementation in the November 2018 election.



## Rafferty to Duffy and Alleyne, page 2

After the Board meeting of May 30, 2018, the District's litigation attorney advised plaintiffs that the Board would conduct a closed session to discuss its approach to the litigation on election day, June 5, 2018. We prepared this map in anticipation of that special meeting.

Since plaintiffs are publicizing this map, it is not a privileged settlement document. We ask that the District post it on its website, which has yet to post a single public comment. The District should also post court filings, as we requested after your attorney claimed to have filed anti-SLAPP sanctions against plaintiffs.<sup>1</sup> As we have stated previously, WCCUSD has fallen far below the standards of transparency and outreach attempted to some degree by every other jurisdiction in our county. As near as we can tell, only the plurality white Korematsu Middle School in El Cerrito has mobilized its parent body to comment.<sup>2</sup>

On March 8, 2018, the District advised the County Board of Education that it would complete the mapping process by May 31, 2018.<sup>3</sup> Subsequently, the Board indicated that it will not act within the 90 days allowed by statute, and will not seek approval of the County Committee until mid-July, after the registrar's deadline. We urge the Committee to consider this map, preferably conducting a hearing within the district before the Court decides the preliminary injunction. To permit comparison, this letter includes the two alternative proposals provided by the District's demographer, Mr. Douglas Johnson, who did not receive any direction when he appeared before the Board on May 16, 2018. During a conference at Superior Court, the District's litigation counsel indicated that they may be no further options offered to the Board at its next hearing. We look forward to working with Mr. Johnson and hope that he can be directed to collaborate on suggesting improvements to our map that place primary emphasis on achieving the goals of the CVRA and Section 2 of the Federal Act.

We expect this map to be the initial proposal to the Superior Court in our application for a preliminary injunction. Given the failure to date of the Board to engage the minority population, we are independently attempting to arrange community charettes before the court hearing, currently scheduled for the end of the month. We reserve our right to submit the public's recommendations, including possible changes to the map, for consideration by the Court.

### Implementation in 2018

Without implementation in 2018, three trustees would be unlawfully elected at-large this November. At least under the state Voting Rights Act (CVRA), if the court allows such an election result to be certified, these incumbents would be protected during their term in office. Although the County Committee may approve a map that

limits El Cerrito (10 percent of the school district by population) to a single trustee, such a map would never be implemented. Instead, the illegally elected majority would be able to redraw the lines in 2021 to entrench themselves for another decade. The County Committee has no jurisdiction to review decennial redistricting, nor does state law give the courts review authority independent of claims under the Federal Constitution.

The county registrar has created a significant complication by indicating that he will not split precincts to implement CVRA remedies this year. Given the overarching importance of complying with the CVRA in 2018, plaintiffs have accommodated this constraint, with the exception San Pablo 106, a large precinct between San Pablo and Rollingwood, which includes distinct groups of census blocks with black, Latino and white majorities. The map demonstrates that a trustee area can be created with a majority of Latino voters, another with a majority of black voters, a third area in the underrepresented north whose voters are 33 percent Asian.

Plaintiffs confirm Mr. Johnson's conclusion that a trustee area can be created in which Latino voters alone are a majority of the voters, not just of the population as a whole. But we have also created a majority black trustee area. This is a remarkably successful result, possibly the most needed and effective voting rights remedy in Northern California to date. In Martinez, the districts ranged between 8 and 14 percent Latino and none exceeded 10% Asian or 4% black. Concord created a district that was 63% Latino by population, but only 37% of eligible voters were Latino. By contrast, this remedy will give WCCUSD's minorities a real opportunity to elect candidates of their choice this November.

#### Recognizing WCCUSD's Legacy of Discrimination

Some trustees apparently believe that CVRA should not apply to WCCUSD because it celebrates diversity and has many interracial marriages.<sup>1</sup> This is not a defense to an action under the CVRA. Whether it wants to admit it or not, WCCUSD's history has much in common with districts that have been subject to federal desegregation orders for decades. *See Stout v. Jefferson County Board of Educ.*, No. 17-12338, 5<sup>th</sup> Cir., Feb. 13, 2018, reversing modification to 1971 order.

Like many districts in Southern states, WCCUSD implemented a "Freedom of Choice" plan to resist integration in the 1970s. [Bradley v. School Board of Richmond, 416 U.S. 696 \(1974\)](#). This enabled parents with the ability to transport their students to choose high quality schools. White parents can disproportionately avail themselves of

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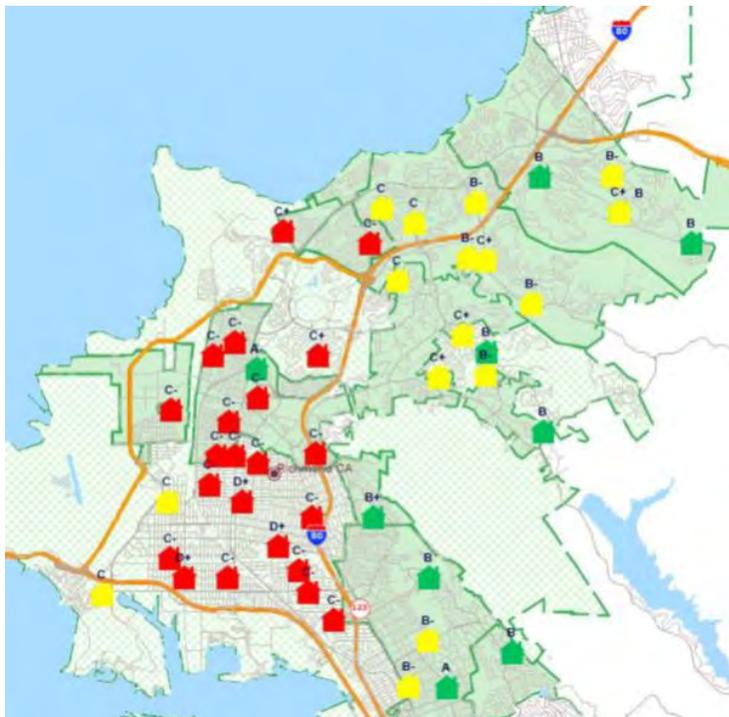
<sup>1</sup> [http://richmond.granicus.com/MediaPlayer.php?view\\_id=15&clip\\_id=4289](http://richmond.granicus.com/MediaPlayer.php?view_id=15&clip_id=4289) (video at 1:55)

these programs. The District first attempted open enrollment in 1969 (see [McGee v. Richmond Unified School District, 306 F. Supp. 1052 \(N.D. Cal. 1969\)](#); [Richmond Welfare Rights Org. v. Snodgrass, 525 F.2d 197, n.3 \(9th Cir. 1975\)](#)) but expanded in the late 1980s. [Improving Schools and Empowering Parents](#) [White House report], 1989. The expansion of open enrollment is generally seen as an essential cause of the 1991-2012 bankruptcy and bailout. Chriss, "Rise and Fall of Choice in Richmond," [11 Econ.of Ed. Rev. 385](#) (1992); ["In California, Out of Money," Newsweek, May 5, 1991](#). The bankruptcy led even more affluent parents to flee the district or to enroll their children in private schools.

As a legacy of this history, WCCUSD schools remain highly segregated. The influx of Latino immigrants has compounded residential and educational segregation. Many immigrants live in areas of Richmond and San Pablo in which property values have been depressed in large part due to the poor quality of the public schools.

#### Latino Share of Population

	1970	2000	2010
San Pablo	10%	45%	57%
Richmond	7%	27%	40%
El Cerrito	4%	8%	11%



As evidenced by third-party ratings like Niche and Great Schools, inner-city schools, many of which have been in program improvement for years, are not improving. Our proposed map dedicates two trustees to represent these underserved areas. Trustee areas offer a modest remedy to overcome decades of segregation and discrimination in the allocation of District resources

The Need for Distinct Latino and Black Trustee Areas

Based on ecological data, it appears that Latino and black communities have shown the inclination to form coalitions in support of their candidates of choice, but very few have succeeded. Therefore, the plaintiffs have attempted to create distinct areas, while recognizing that success of minority candidates will depend upon some degree of support from each community. Each of the two largest minorities deserves an area in which it has a meaningful majority. Although these maps satisfy the federal legal criteria that trustee areas have a majority of eligible voters who are minority group members, they reflect actual neighborhoods (and, due to necessity, precinct boundaries).

As expected, the proposed map follows the three basic priorities set forth before filing the complaint

- First, divide urban Richmond/San Pablo into majority Latino and black areas,
- Second, create an area for Hercules, Pinole, and Giant (Tara Hills/Montalvin Manor), and
- Third, place communities of interest with white majorities in the remaining two eastern districts.

The initial map has been recalculated to reflect two circumstances. The registrar, who had insisted since 2013 that no new precincts would be created, created a significant number of new precincts in anticipation of the June 2018 election. This caused the voting data not to correspond with the geography obtained from the Legislature's statewide database of election precincts.<sup>4</sup> The "baseline" map also relied on "census overlays" provided with Caliper's Maptitude application. Apparently, these are prorated from census tracts, which led to inaccuracies. The new map is based on aggregation of total 2010 population from the smallest unit of census geography – the census block. As a result, the new map accurately reflects 2010 total population, but had to shift several precincts in east Pinole into the El Sobrante trustee area. To a substantial degree, however, the map continues to follow municipal and neighborhood boundaries.

Plaintiffs achieve two strong minority trustee areas with minimal variation from the ideal of equal population. The margin of error for calculating the citizens of voting age population (CVAP) is very high. For the reasons noted below, both CVAP and registration rolls probably systematically underreport Latino population, so both districts are likely over 50% on either measure.

area	TOTAL	POPULATION			CITIZENS OF VOTING AGE			REGISTERED VOTERS			variation from ideal pop
	POP	Latino	Black	White	Latino	Black	Asian	Latino	Black	Asian	
1	46600	67%	13%	8%	46%	17%	15%	49%	12%	7%	-524
2	46562	40%	41%	6%	24%	49%	13%	22%	51%	6%	-562
3	47458	23%	16%	23%	19%	15%	34%	20%	5%	21%	334
4	47422	27%	17%	33%	20%	16%	20%	19%	7%	10%	298
5	47578	13%	10%	51%	9%	9%	20%	8%	4%	12%	454

The plaintiffs’ map resembles the “Freeway” option presented by the district’s demographer in that it finds a majority Latino trustee area centered on San Pablo. However, our map also links the remaining urban areas of Richmond – downtown, the Iron Triangle and portions of Hilltop, to create a majority black trustee area. In these two majority-minority trustee areas, only four precincts have more than 25% white voters.

A third minority-rich district is created in the north. Despite the dispersion of Asian voters, it achieves 33% citizens of voting age who are Asian.<sup>5</sup> The remaining two districts (East Richmond/El Sobrante and El Cerrito) are predominantly white. The El Sobrante trustee area balances population by reaching across I-80 to include parts of northeast Richmond with significant minority populations. All but five of the precincts in El Cerrito are majority white. In contrast to the “Freeway” proposal, all of the overwhelming white area south of I-580 is linked to the El Cerrito trustee area.

The Public’s Right to Input

Precincts are supposed to reflect districts, not the other way around. Precincts in developed for the registrar’s administrative convenience without public input. They often split neighborhoods and even census blocks. According to the manual for his new election software suite, reprecincting can be done “on the fly” with minimal commitment of staff, which is consistent with the practice in other counties. The registrar relented from his restriction to split two adjacent precincts in Martinez so that each of the four incumbents could have their own district. To the extent that the school board, County Committee, Supervisors, and the public can influence the registrar, they should seek additional divisions of precincts to tailor this map to reflect communities of interest, as the public perceives them.

The basic model is exceptionally robust. In addition to San Pablo 106, several other precincts could be divided between the Latino and black communities. The Shield-Reed area, the only population density West of San Pablo, has both majority Latino and majority black blocks, which are combined in another large precinct, NRIC 101-B. The arbitrary geography of precincts requires some departure from traditional notions of compactness. The blocks along Ohio Avenue and Harbor Way have

considerable Latino populations, but need a short connection through the commercial area of city center, because this is contained within a majority black precinct (RICH120). But for the precinct constraint, the districts would be more compact and regular

To the extent that actual neighborhoods and communities of interests are defined in part by race, the public may wish to consider the census blocks that have majority Latino or black populations of citizens of voting age (CVAP). Generally, these blocks are within or adjacent to the base precincts. Especially in the case of the Latino community, the ethnic composition of blocks often reflects underlying neighborhoods that include Spanish-speaking commercial establishments. While precinct boundaries often use major boulevards for convenience, Latino multi-unit housing and businesses typically line both sides of such thoroughfares, while census blocks inside the precincts have fewer minorities. This is evident, for example, in the Atchison Village precinct (RICH118) just east of Richmond Parkway between McDonald and West Ohio Avenues.

Options Presented by the District’s Demographer

The District presented two options, which are attached. The “Schools” option attempts to follow high school boundaries. Unfortunately, school boundaries are not currently posted on the website.<sup>6</sup> We believe our map does a better job of collecting the areas served by underperforming schools at all levels, and ensuring they are represented by two trustees.

The “Freeway” option, which is closer to ours, strictly follows I-80, but ignores I-580. The most conspicuous failure of each option is the decision to combine El Cerrito with El Sobrante, which is a very different community. By contrast, we link El Cerrito to the predominantly white areas of Richmond South of I-580. These areas attend Korematsu Middle School in El Cerrito. This avoids diluting the black majority attainable in a trustee area anchored in downtown Richmond.

Highest Minority Voter Share (%) in Trustee Area

	Plaintiffs	Freeway	Schools
Latino (CVAP)	46	44	43
(registration)	54*	50	47
Black (CVAP)	40	40	38
(registration)	51	49	46
Asian (CVAP)	36	34	32
(registration)	11	21	10
precinct-complaint?	yes	no	no

\* increased from 49% to be comparable with Mr. Johnson’s undercount adjustment

## Rafferty to Duffy and Alleyne, page 8

Following precinct lines is a significant constraint. We are confident that we could work with Mr. Johnson to achieve a map that improves on all these options.

### The Transparency of Plaintiff's Data

The Plaintiffs have used the best available data, consistent with court decisions implementing the Voting Rights Act. The attached printout shows the relevant data for each precinct.

For total population, which is the basis for apportioning the district's geography among trustee areas, we have used block level data from the PL94-10 file created for the last decennial redistricting. This has been aggregated to the precinct level. There are more than 3800 blocks in the jurisdiction, although some have no population. In the few cases where precincts split census block, the program has allocated according to land area.

To determine the number of citizens of voting age, we used the American Community Survey for 2012-2016, which was published in February 2018. The Justice Department makes a special compilation from the full census count that imputes citizenship, but it is only done immediately after the census for much larger geographies. CVAP is best viewed as a range, because it has a substantial margin of error and appears systemically to underreport Latino adult citizens, at least in our area. At the block level, the census reports a margin of error that is often larger than the count itself, even at a confidence interval of only 90%. In half of the census blocks, there are 3 or fewer Latino adult citizens. If the error were random, the aggregation of blocks would tend to reduce it as a percentage of the total. However, no meaningful estimate can be made because the error is compounded by several other factors – suppression of small numbers due to privacy and rounding to whole numbers.

Statisticians at the University of California have shown that CVAP systematically undercounts Latino citizens.<sup>7</sup> The ACS for 2005-2009 (which was published in February 2011), underreported the Latino adult count by 8.3 percent compared to the 2010 census. (The 2010 census did not have a citizenship question.) The white count was overreported by 1.3 percent. A primary reason is the five-year range of the survey, which is designed to accumulate sufficient observations. The ACS does not correct for age, so it does not report a person who was 14 in 2005 as eligible to vote. Historically, Latinos have had a higher birth rate, leading to a younger population than whites and blacks, but this gap is closing in Richmond and the county generally. The average time since arrival in the United States also appears to be increasing, probably increasing the citizenship rate. Since the ACS is a five-year moving average, it reflects only 20% of this change every year. The ACS does not underreport due to any change in immigration

policy, or due to lower visibility of Latinos due to apprehension over future policies, because the data was compiled before 2017.

For the purpose of imputing race and Latino ethnicity to voters, we have used precinct counts distributed by a political party for unrelated purposes prior to this litigation. In precincts where precinct boundaries had not changed, these corresponded well to attributions published by the Legislature's statewide database.<sup>8</sup> Imputations are less reliable for blacks. They depend on proprietary databases and are not even attempted by the statewidedatabase. We generally concur with Mr. Johnson's conclusion that such imputations undercount Latinos by about 10 percent. Hence, the Latino share of registered voters in Area 1, reported as 49%, may actually be 54%.

## CONCLUSION

Subject to refinement by the public and the County Committee, this map describes districts that will provide minorities the best chance at an equal opportunity to elect candidates of their choice in this November's election. The WCCUSD Board should direct the registrar to implement these boundary changes.

Sincerely,



Scott J. Rafferty

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<sup>1</sup> The Board promised a link to current litigation.

[http://richmond.granicus.com/MediaPlayer.php?view\\_id=15&clip\\_id=4326](http://richmond.granicus.com/MediaPlayer.php?view_id=15&clip_id=4326) (3:03) Instead, the website states: "Case documents are not available online. In order to view documents, you must go to the court in person and provide a valid ID." <https://www.wccusd.net/Page/10826>:

<sup>2</sup>

<https://www.wccusd.net/site/default.aspx?PageType=3&DomainID=430&ModuleInstanceID=6159&ViewID=6446EE88-D30C-497E-9316-3F8874B3E108&RenderLoc=0&FlexDataID=31121&PageID=1642>

<sup>3</sup>

<https://www.wccusd.net/site/handlers/filedownload.ashx?moduleinstanceid=15899&dataid=31720&FileName=CVRA%20Presentation%2003072018.pdf>

<sup>4</sup> [http://statewidedatabase.org/pub/data/G16/c013/c013\\_g16\\_registration\\_by\\_g16\\_srprec.csv](http://statewidedatabase.org/pub/data/G16/c013/c013_g16_registration_by_g16_srprec.csv)

<sup>5</sup> Unfortunately, this community is not registered in proportion to the numbers of eligible citizens.

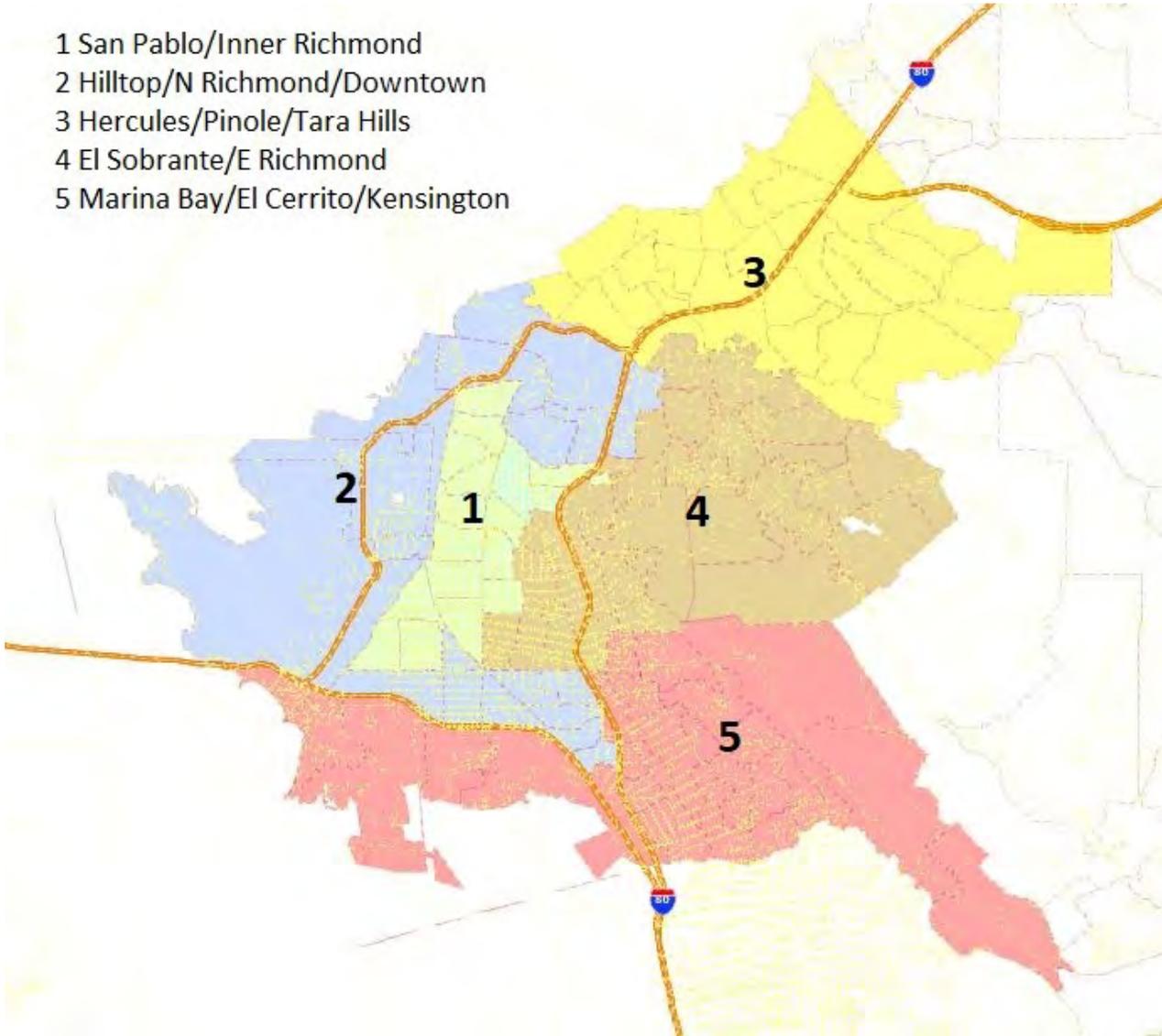
<sup>6</sup> <https://www.wccusd.net/Page/3666>: "This page is currently unavailable."

<sup>7</sup> [https://www.law.berkeley.edu/files/Redistricting\\_PolicyBrief4\\_forWeb.pdf](https://www.law.berkeley.edu/files/Redistricting_PolicyBrief4_forWeb.pdf)

<sup>8</sup> [http://statewidedatabase.org/pub/data/G16/c013/c013\\_g16\\_registration\\_by\\_g16\\_srprec.csv](http://statewidedatabase.org/pub/data/G16/c013/c013_g16_registration_by_g16_srprec.csv)

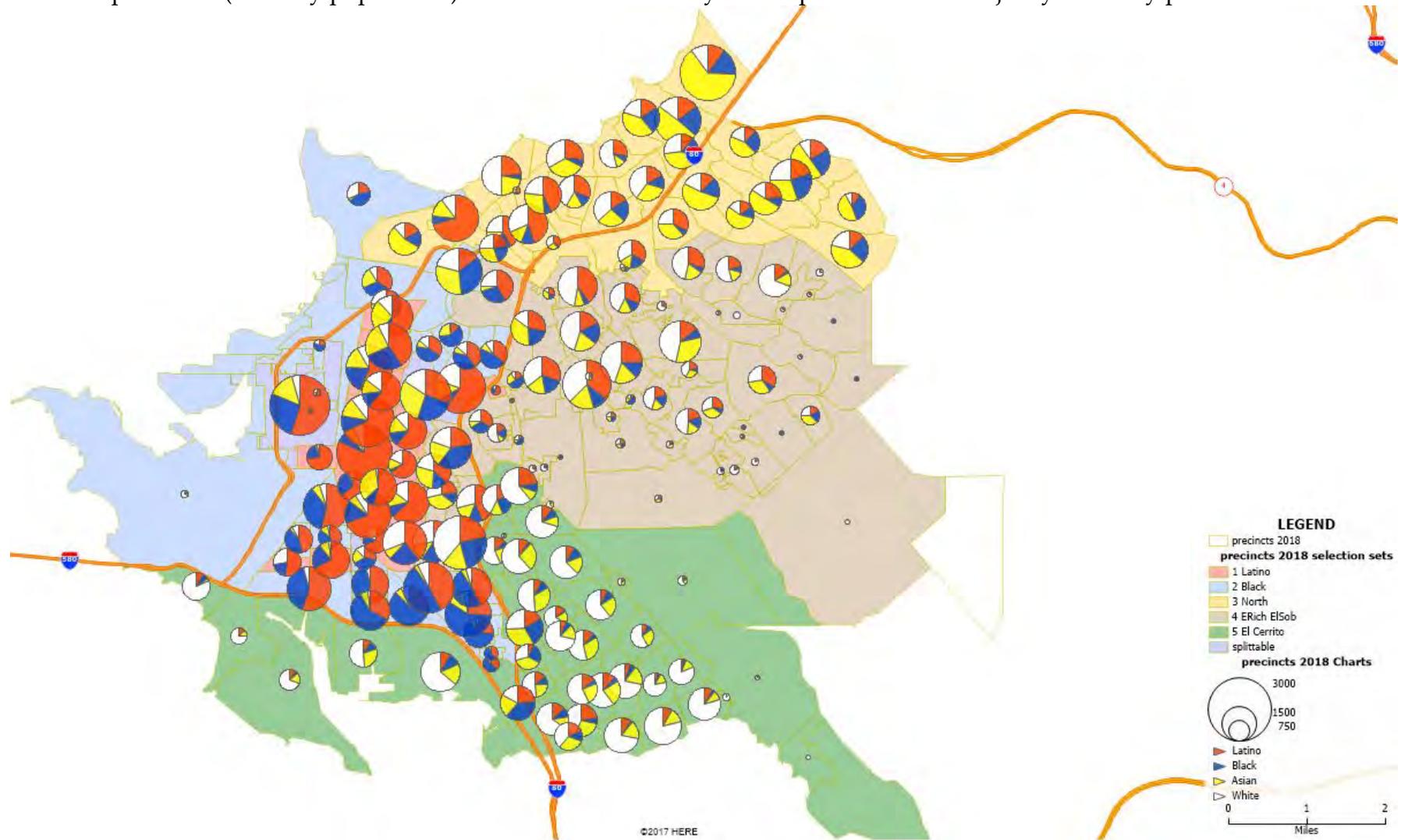
1. Initial map. This map was included in the complaint as a baseline, and has been refined due to unannounced changes to precinct boundaries.

- 1 San Pablo/Inner Richmond
- 2 Hilltop/N Richmond/Downtown
- 3 Hercules/Pinole/Tara Hills
- 4 El Sobrante/E Richmond
- 5 Marina Bay/El Cerrito/Kensington

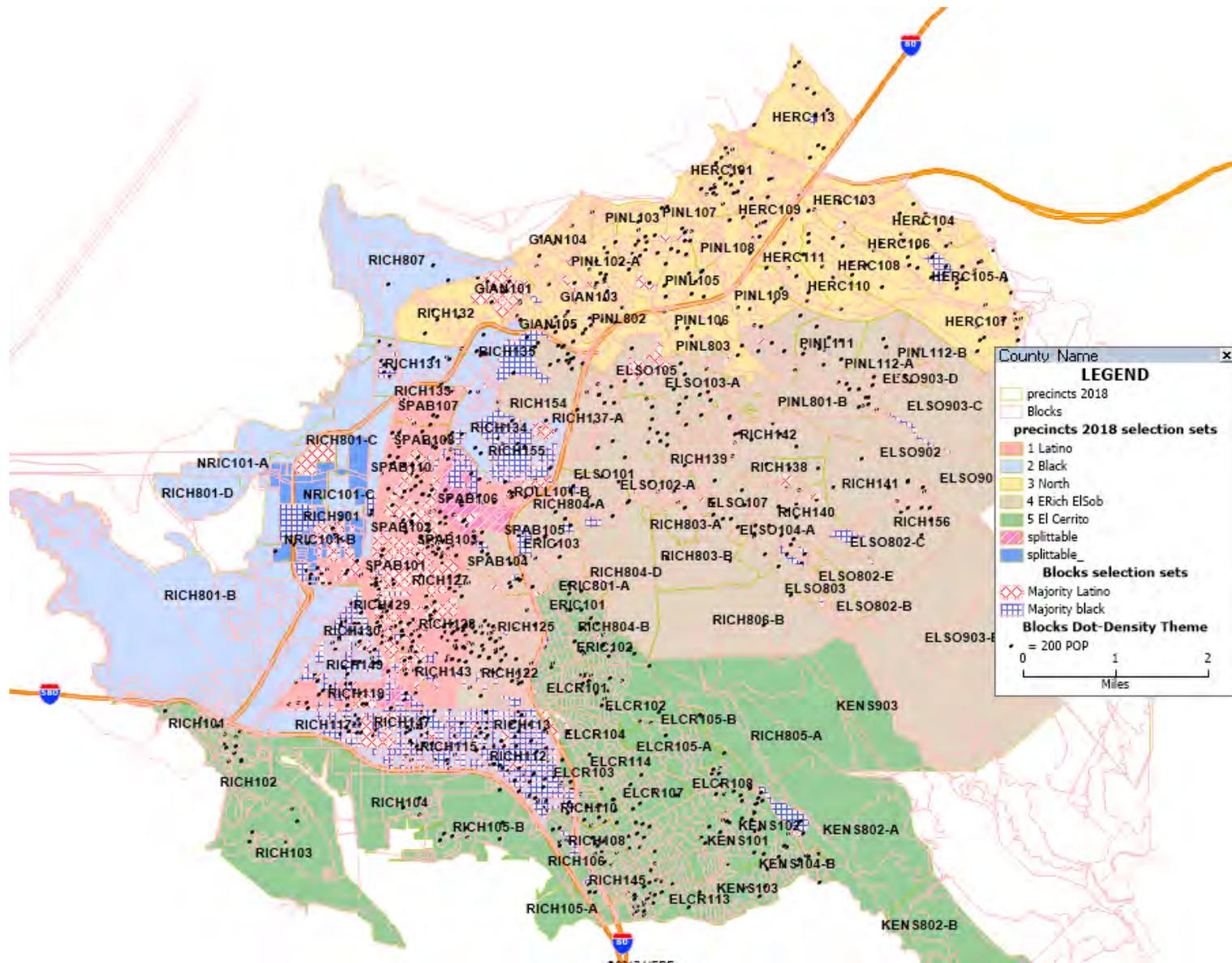




3. These pie charts (sized by population) show how successfully the map accumulates majority-minority precincts



4. Majority Latino census blocks [red crosshatch]; majority black blocks [blue crosshatch]; pop density (dot=200)



5. School locations (showing ratings from Niche and Great Schools)



## NOTES TO ATTACHED SPREADHSEETS

Majority black precincts are in blue font (CVAP) and blue cell color (registration); majority Latino precincts are in red font (CVAP) and red cell color (registration);

Trustee	assignment to proposed area
ID	index number for geographic file
SFULLNM	abbreviation for precinct
SPCTNM	city and precinct number
PCTTYPE	registrar's code 8=all mail'
NoBlocks	number of census blocks
POPall_age	population -all age and race (2010)'
POP-L	Latino 2010 pop
POP-W	White 2010 pop
POP-BnH	Black 2020 pop
CIT	Citizen population (ACS 2012-16)
CIT-L	Latino citizen population
CIT-BnH	Black citizen population
CIT-As	Asian citizen population
CIT-W	white citizen population
CVAP	Citizen of voting age population (ACS 2012-16)
CVAP-L	Latino citizen of voting age population
CVAP-BnH	Black citizen of voting age population
CVAP-As	Asian citizen of voting age population
CVAP-W	white citizen of voting age pipulation
REG	registration
REG-L	Latino registration count
REG-BnH	black registration count
REG-As	Asian registration count

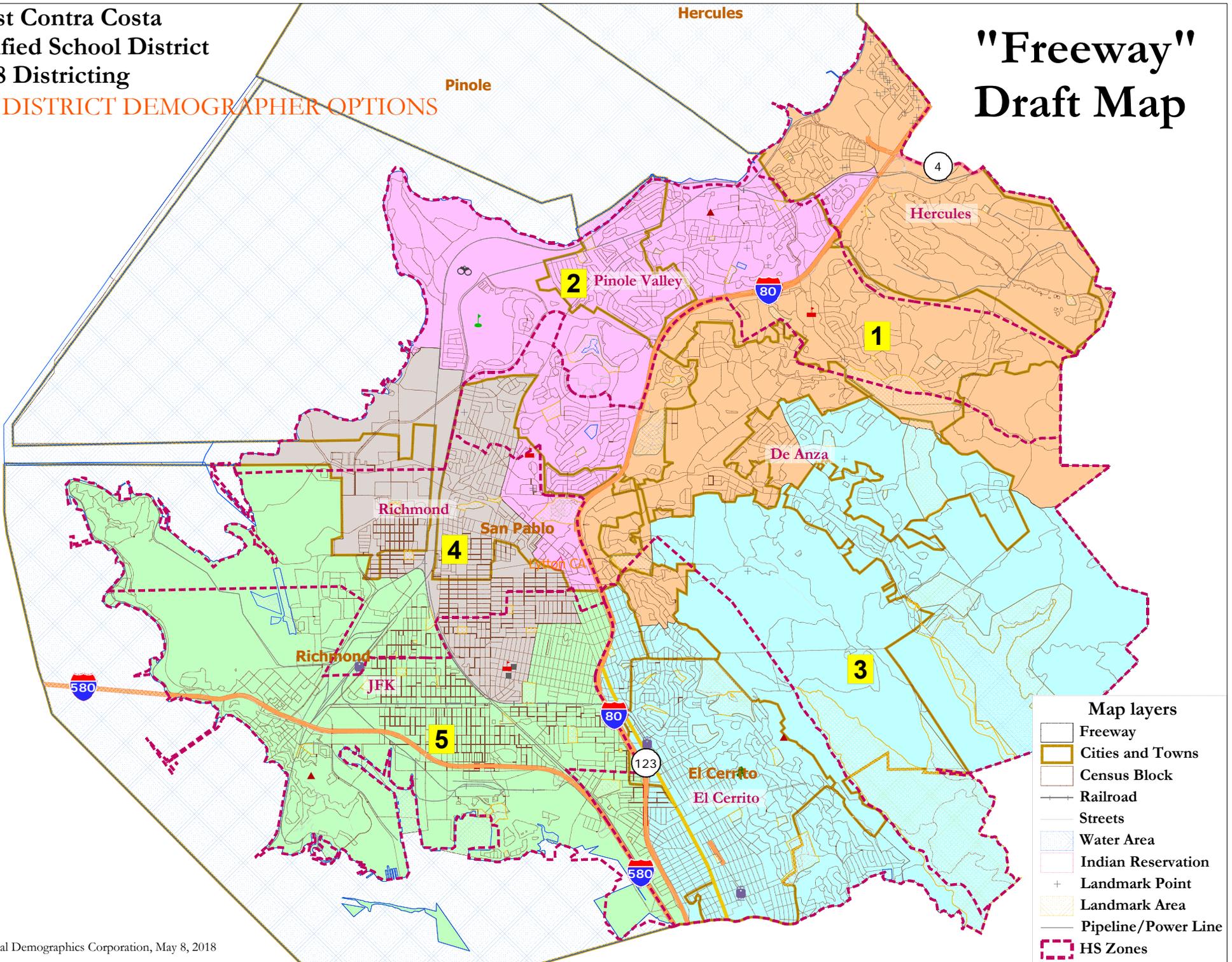
Trustee	SFULLNM	SPCTNM	NoBloch	POPall_	POP-L	POP-W	POP-Bn	CIT	CIT-L	CIT-Bn	HCI	As	CIT-W	CVAP	CVAP-L	CVAP-Bi	CVAP-A	CVAP-W	CVAP-Lf	CVAP-Bi	CVAP-A	CVAP-W	REG	REG-L	REG-Bn	REG-As	
1	RICH118	Richmond118	21	1908	1290	304	206	1279	621	239	10	319	853	242	177	10	319	0	0	0	0	0	781	338	182	21	
1	RICH119	Richmond119	39	2022	1297	54	515	1668	1105	366	126	41	861	426	266	111	41	0	0	0	0	0	728	292	258	32	
1	RICH121	Richmond121	37	1908	1386	111	329	1089	712	123	16	175	608	281	113	12	144	0	0	0	0	0	580	233	155	14	
1	RICH127	Richmond127	39	2190	1545	183	179	1210	760	24	165	208	975	530	24	165	208	1	0	0	0	0	775	393	25	62	
1	RICH128	Richmond128	33	2510	1563	310	302	1952	1182	156	253	279	1343	649	149	206	248	0	0	0	0	0	1028	433	63	79	
1	RICH129	Richmond129	35	2165	1703	85	287	1241	798	362	35	40	769	443	244	35	39	1	0	0	0	0	753	447	103	19	
1	RICH143	Richmond143	54	2638	1219	462	698	2054	769	443	139	600	1509	354	440	135	509	0	0	0	0	0	1317	373	259	64	
1	RICH146	Richmond146	35	1483	1114	28	269	1313	805	213	33	36	603	318	119	15	32	1	0	0	0	0	419	184	138	13	
1	RICH150	Richmond150	34	2753	2185	83	340	2278	1511	343	129	192	1353	723	288	93	162	1	0	0	0	0	772	461	155	23	
1	RICH152	Richmond152	21	1762	1317	101	168	1639	864	140	560	30	1139	510	140	430	30	0	0	0	0	0	683	421	40	46	
1	ROLL101-A	Rollingwood101	29	2949	1824	338	182	2537	1462	168	303	489	1891	933	136	279	465	0	0	0	0	0	1206	636	28	137	
1	ROLL101-B	Rollingwood101	13	247	122	61	23	193	105	46	2	24	120	52	29	1	24	0	0	0	0	0	110	58	3	12	
1	SPAB101	SanPablo101	56	4661	3618	266	403	2745	2179	172	141	181	1516	1026	170	141	111	1	0	0	0	0	1299	860	50	50	
1	SPAB102	SanPablo102	43	3871	2886	261	295	2711	1722	252	308	261	1757	969	196	223	211	1	0	0	0	0	1261	728	67	73	
1	SPAB103	SanPablo103	47	2353	1375	222	347	1718	970	196	229	192	1055	436	176	194	178	0	0	0	0	0	787	325	69	120	
1	SPAB107	SanPablo107	31	2522	1430	260	297	2025	985	142	521	220	1338	500	134	412	186	0	0	0	0	0	1062	453	76	122	
1	SPAB108	SanPablo108	40	3081	1635	211	630	2338	870	602	524	166	1706	529	487	450	146	0	0	0	0	0	1105	460	136	126	
1	SPAB109	SanPablo109	29	2513	1651	235	216	1858	1074	213	215	253	1225	619	160	188	232	1	0	0	0	0	855	459	52	68	
1	SPAB110	SanPablo110	23	3063	1856	275	424	2238	1193	401	327	178	1347	584	285	256	144	0	0	0	0	0	1166	549	95	102	
2	NRIC101-A	NorthRichmond101	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	NRIC101-B	NorthRichmond101	135	3697	1855	104	1208	3124	1597	775	408	128	1801	802	449	323	123	0	0	0	0	0	1349	430	671	89	
2	NRIC101-C	NorthRichmond101	29	44	25	7	6	33	16	3	3	7	19	8	3	3	4	0	0	0	0	0	10	3	6	1	
2	RICH109-A	Richmond109	12	803	147	11	604	423	150	242	13	4	294	58	222	10	4	0	1	0	0	0	480	32	377	16	
2	RICH109-B	Richmond109	24	868	160	50	549	560	195	273	53	17	391	77	249	42	17	0	1	0	0	0	587	40	460	19	
2	RICH111	Richmond111	24	1427	336	46	924	1394	345	831	97	53	1014	183	652	80	45	0	1	0	0	0	682	101	482	23	
2	RICH112	Richmond112	21	2011	521	98	1200	2187	549	1245	262	75	1573	312	937	229	48	0	1	0	0	0	1133	146	851	51	
2	RICH113	Richmond113	41	2311	871	59	1173	1838	759	880	77	90	1252	361	778	31	80	0	1	0	0	0	1204	227	792	29	
2	RICH114	Richmond114	40	2557	1116	82	1210	2449	1000	1140	56	176	1583	502	910	50	74	0	1	0	0	0	1185	272	738	32	
2	RICH115	Richmond115	63	2618	1130	73	1249	1836	562	960	90	119	1030	216	685	41	61	0	1	0	0	0	1179	237	754	40	
2	RICH116	Richmond116	41	1552	707	59	699	1731	590	1076	116	42	1233	316	846	79	42	0	1	0	0	0	764	182	489	14	
2	RICH117	Richmond117	105	2587	1422	68	1002	2132	1124	818	15	70	1307	434	745	15	70	0	1	0	0	0	1087	297	667	19	
2	RICH120	Richmond120	29	2152	1230	113	611	949	248	349	177	113	680	90	336	132	108	0	0	0	0	0	781	240	270	48	
2	RICH130	Richmond130	37	3368	2096	98	973	2161	1134	726	119	105	1332	412	636	94	99	0	0	0	0	0	1198	449	481	23	
2	RICH131	Richmond131	25	1851	733	89	542	1504	453	474	296	118	1093	210	371	244	110	0	0	0	0	0	886	222	321	125	
2	RICH133	Richmond133	30	1279	219	182	509	1321	167	430	378	301	1081	60	394	333	254	0	0	0	0	0	773	91	167	102	
2	RICH134	Richmond134	13	1043	248	91	513	1072	120	573	239	15	847	75	448	185	15	0	1	0	0	0	659	116	391	63	
2	RICH135	Richmond135	22	2081	400	226	651	2211	305	709	627	443	1736	158	621	551	337	0	0	0	0	0	813	94	229	129	
2	RICH136	Richmond136	25	1094	307	107	484	1171	414	548	83	121	841	244	466	81	89	0	1	0	0	0	643	144	292	41	
2	RICH147	Richmond147	59	1854	953	40	771	1692	869	719	15	44	1139	425	617	7	44	0	1	0	0	0	860	217	554	9	
2	RICH148	Richmond148	23	1744	982	80	587	1127	534	502	37	89	587	160	370	29	79	0	1	0	0	0	712	222	244	19	
2	RICH149	Richmond149	28	1640	777	30	633	1026	454	384	109	28	577	166	262	102	24	0	0	0	0	0	719	172	456	38	
2	RICH153	Richmond153	16	1514	366	130	763	1133	373	474	93	150	806	182	361	93	127	0	0	0	0	0	700	91	289	41	
2	RICH155	Richmond155	22	1684	650	147	601	1216	476	479	84	161	958	283	441	79	140	0	0	0	0	0	919	262	287	84	
2	RICH801-A	Richmond801	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	RICH801-B	Richmond801	174	54	7	33	8	47	7	3	3	34	40	5	3	3	31	0	0	0	0	1	42	4	4	1	
2	RICH801-C	Richmond801	58	497	158	52	253	333	91	194	0	60	156	40	84	0	42	0	1	0	0	0	28	2	3	0	
2	RICH801-D	Richmond801	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	
2	RICH807	Richmond807	18	876	234	208	380	915	202	387	30	295	664	92	302	25	279	0	0	0	0	0	0	0	0	0	0
2	RICH901	Richmond901	4	2	2	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
2	SPAB106	SanPablo106	50	3355	895	518	934	2544	735	596	687	381	1916	391	536	556	359	0	0	0	0	0	1442	249	283	242	
3	GIAN101	Giant101	24	2546	1745	272	194	2082	1526	122	273	220	1441	891	122	273	160	1	0	0	0	0	987	578	31	63	
3	GIAN102	Giant102	25	1306	528	380	114	1547	573	240	222	336	1180	357	187	176	297	0	0	0	0	0	646	219	16	68	
3	GIAN103	Giant103	33	2127	798	721	194	1909	801	180	234	555	1503	567	141	171	483	0	0	0	0	0	1148	339	26	116	
3	GIAN104	Giant104	36	2062	570	792	204	1911	443	66	400	897	1491	303	66	310	775	0	0	0	1	1240	258	41	150		

3	GIAN105	Giant105	23	1692	621	351	378	1273	251	262	360	284	1005	175	240	238	251	0	0	0	0	785	201	58	101	
3	HERC102	Hercules102	34	2543	306	419	408	2350	319	444	1029	311	1772	210	307	857	289	0	0	0	0	1332	207	109	385	
3	HERC103	Hercules103	42	1173	154	177	275	1243	163	317	560	239	979	131	205	466	227	0	0	0	0	697	89	44	197	
3	HERC104	Hercules104	18	1604	353	311	271	1884	297	428	904	182	1429	178	234	785	178	0	0	1	0	1044	195	47	258	
3	HERC106	Hercules106	21	1924	381	432	351	1975	368	455	549	467	1578	300	357	401	450	0	0	0	0	1048	222	37	194	
3	HERC107	Hercules107	51	2000	336	370	447	1919	217	395	685	354	1622	124	380	621	319	0	0	0	0	1145	195	63	288	
3	HERC108	Hercules108	20	1719	296	241	306	1514	335	131	723	216	1229	244	127	592	199	0	0	0	0	1022	197	36	263	
3	HERC109	Hercules109	29	1899	250	435	508	1710	178	343	622	425	1366	114	265	499	410	0	0	0	0	1140	149	78	231	
3	HERC111	Hercules111	31	1752	241	266	257	1753	205	293	846	286	1492	167	241	715	270	0	0	0	0	1026	126	43	349	
3	HERC113	Hercules113	22	3008	251	275	635	2779	269	411	1676	267	2015	170	328	1245	203	0	0	1	0	1655	221	201	528	
3	HERC101	Hercules101	49	1984	248	440	353	1945	268	397	703	338	1462	178	276	590	314	0	0	0	0	1343	187	94	364	
3	HERC110	Hercules110	20	1318	204	204	187	1289	176	169	679	183	1065	136	143	553	172	0	0	1	0	881	136	43	312	
3	HERC105-A	Hercules105	22	1225	171	198	187	1092	115	418	555	94	847	98	281	429	93	0	0	1	0	742	130	21	227	
3	PINL102-A	Pinole102	29	1505	403	459	206	1689	692	99	450	372	1389	471	89	422	334	0	0	0	0	883	205	35	151	
3	PINL102-B	Pinole102	4	51	19	10	6	35	14	4	7	5	29	11	3	4	4	0	0	0	0	37	9	1	6	
3	PINL103	Pinole103	34	2082	418	418	527	1879	439	108	567	557	1528	317	98	450	545	0	0	0	0	1068	183	77	172	
3	PINL104	Pinole104	25	1503	418	487	197	1610	433	165	244	587	1180	254	94	236	480	0	0	0	0	815	176	20	114	
3	PINL105	Pinole105	17	1984	312	533	490	1637	241	315	384	551	1370	199	234	341	476	0	0	0	0	1091	180	56	173	
3	PINL106	Pinole106	36	1334	280	528	128	1350	401	205	176	405	1094	231	169	168	401	0	0	0	0	854	142	28	133	
3	PINL107	Pinole107	31	1253	295	518	160	1369	336	93	138	651	1199	289	82	131	563	0	0	0	0	736	123	18	91	
3	PINL108	Pinole108	41	1846	337	740	236	1598	260	186	481	614	1307	188	160	368	543	0	0	0	0	1050	187	34	165	
3	PINL109	Pinole109	19	1353	291	392	138	1304	397	77	459	308	1068	271	68	396	291	0	0	0	0	731	153	18	174	
3	PINL802	Pinole802	21	496	165	185	45	457	139	29	106	153	369	97	28	85	137	0	0	0	0	251	70	10	35	
3	PINL803	Pinole803	18	200	42	52	33	173	57	23	25	40	142	38	22	23	39	0	0	0	0	81	7	6	9	
3	RICH132	Richmond132	27	1967	360	153	305	1659	236	236	763	166	1204	109	186	630	156	0	0	1	0	950	160	158	285	
4	ELSO101	ELSobrante101	27	2042	521	835	214	1837	479	276	279	565	1490	331	228	240	529	0	0	0	0	1107	232	45	94	
4	ELSO102-A	ELSobrante102	44	2379	555	913	334	2442	782	229	368	833	1953	534	201	318	739	0	0	0	0	1240	238	52	77	
4	ELSO102-B	ELSobrante102	7	38	6	19	5	42	7	5	8	20	32	5	3	7	18	0	0	0	1	3	1	1	1	
4	ELSO103-A	ELSobrante103	42	1369	350	574	183	1294	394	148	186	547	987	177	122	160	468	0	0	0	0	938	150	42	76	
4	ELSO103-B	ELSobrante103	25	201	29	142	4	210	38	3	11	145	157	18	3	11	119	0	0	0	1	126	20	6	10	
4	ELSO104-A	ELSobrante104	34	1368	296	653	109	1096	198	151	173	506	931	157	119	143	476	0	0	0	1	887	137	24	85	
4	ELSO104-B	ELSobrante104																				5	1	0	0	
4	ELSO105	ELSobrante105	24	1945	550	867	144	1754	709	88	138	848	1445	484	80	124	780	0	0	0	1	1160	219	39	99	
4	ELSO106	ELSobrante106	10	2178	454	770	486	1791	316	311	336	803	1515	194	270	315	733	0	0	0	0	1048	172	80	72	
4	ELSO107	ELSobrante107	24	1131	270	432	202	949	187	146	157	413	760	148	98	133	347	0	0	0	0	595	98	40	45	
4	ELSO802-A	ELSobrante802	8	184	25	125	14	169	18	9	7	121	150	17	8	7	109	0	0	0	1	185	20	2	7	
4	ELSO802-B	ELSobrante802	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0				
4	ELSO802-C	ELSobrante802	9	2	0	0	1	2	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0
4	ELSO802-D	ELSobrante802	4	5	1	1	3	5	1	3	0	1	4	1	3	0	1	0	1	0	0	2	0	2	0	
4	ELSO802-E	ELSobrante802	9	102	16	73	3	99	12	3	4	73	87	11	3	4	67	0	0	0	1	14	2	0	1	
4	ELSO803	ELSobrante803	8	33	3	17	8	30	1	7	3	19	23	1	5	2	16	0	0	0	1	26	5	6	0	
4	ELSO902	ELSobrante902	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
4	ELSO903-A	ELSobrante903	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
4	ELSO903-B	ELSobrante903	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
4	ELSO903-C	ELSobrante903	15	1	0	0	1	1	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	
4	ELSO903-D	ELSobrante903	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
4	ELSO903-E	ELSobrante903	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
4	ERIC103	EastRichmond103	25	789	141	388	150	664	119	117	67	371	551	77	108	67	317	0	0	0	1	534	69	24	22	
4	ERIC801-A	EastRichmond801	8	40	5	32	1	45	7	2	1	26	35	4	2	1	21	0	0	0	1	44	0	0	0	
4	ERIC801-B	EastRichmond801	14	14	1	12	1	15	2	2	0	8	12	1	1	0	7	0	0	0	1	0				
4	PINL110	Pinole110	26	1660	373	843	105	1498	412	65	248	642	1239	275	57	217	609	0	0	0	0	1175	217	28	101	
4	PINL111	Pinole111	15	1435	313	670	135	1129	246	74	172	592	966	141	74	153	561	0	0	0	1	1046	187	27	127	
4	PINL112-A	Pinole112	32	1593	330	927	78	1584	201	45	192	999	1266	109	39	152	866	0	0	0	1	1066	160	18	73	
4	PINL112-B	Pinole112	13	22	4	15	1	22	2	1	1	16	17	1	1	1	14	0	0	0	1	0				
4	PINL801-A	Pinole801	4	15	0	15	0	15	0	0	0	12	13	0	0	0	12	0	0	0	1	15	1	1	1	



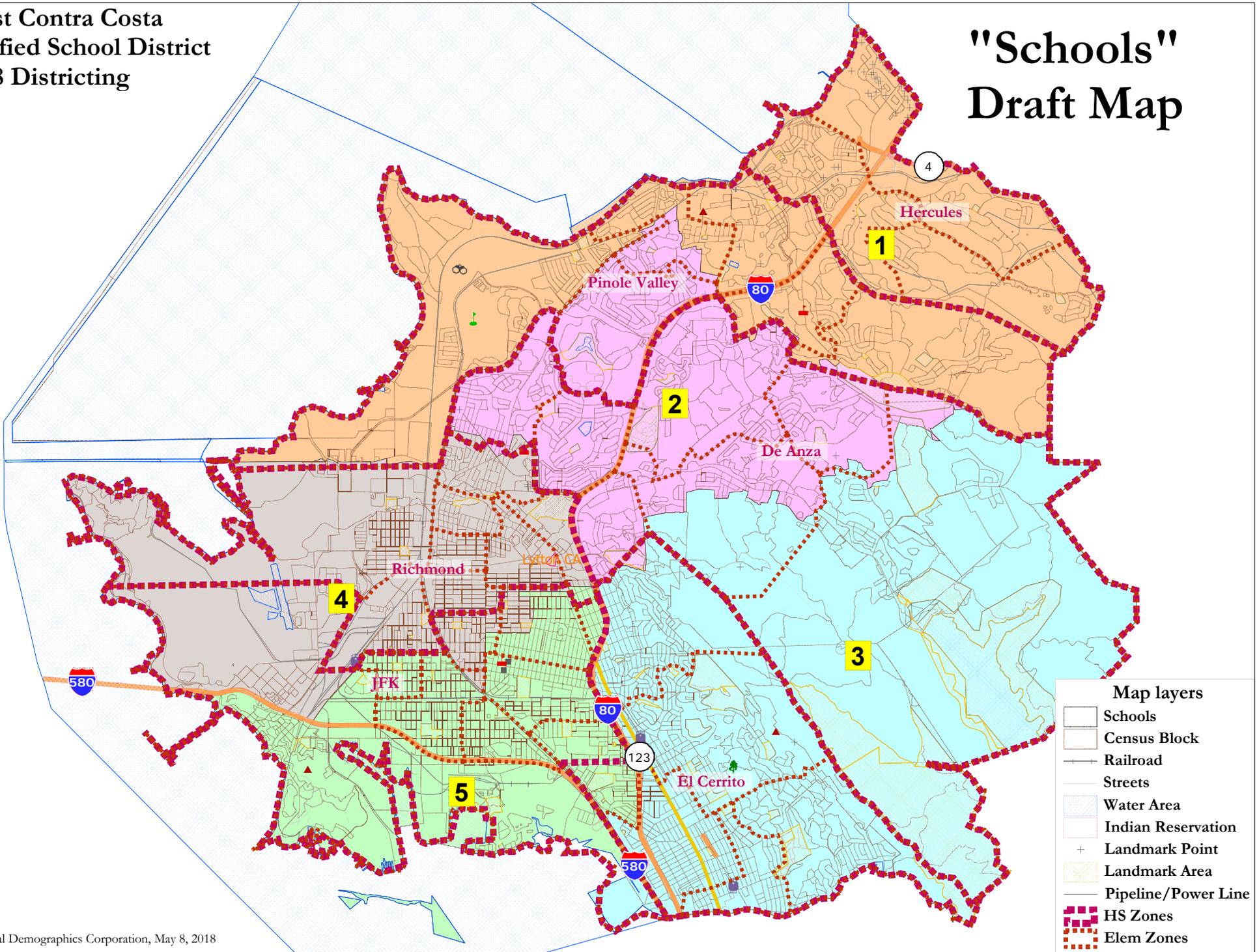
5 RICH101	Richmond101	56	1361	176	951	108	1209	105	72	41	970	1058	72	72	41	884	0	0	0	1	992	75	27	26
5 RICH102	Richmond102	56	784	70	600	50	642	66	14	52	448	617	51	14	47	441	0	0	0	1	579	43	20	17
5 RICH103	Richmond103	54	1015	88	696	83	858	80	25	138	553	816	48	25	138	540	0	0	0	1	820	31	20	62
5 RICH104	Richmond104	55	1211	147	556	159	1320	117	116	346	608	1133	109	92	277	572	0	0	0	1	1042	92	51	157
5 RICH105-A	Richmond105	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0			
5 RICH105-B	Richmond105	61	2037	204	936	312	1924	153	185	333	1154	1745	153	143	310	1085	0	0	0	1	1302	103	51	152
5 RICH106	Richmond106	39	1972	629	423	560	1604	364	584	330	264	1166	147	469	224	249	0	0	0	0	974	186	242	95
5 RICH108	Richmond108	36	1295	216	590	162	1150	145	119	232	532	969	89	82	191	509	0	0	0	1	938	105	39	124
5 RICH110	Richmond110	22	1285	280	338	215	1106	89	267	414	312	977	48	226	389	294	0	0	0	0	715	79	38	97
5 RICH124	Richmond124	52	1264	252	494	197	1308	257	282	174	533	1048	97	272	152	492	0	0	0	0	754	127	34	55
5 RICH144-A	Richmond144	63	1451	312	629	197	1239	161	77	295	685	1049	126	76	260	561	0	0	0	1	1008	132	54	112
5 RICH144-B	Richmond144	2	1	0	1	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	3	2	1	
5 RICH145	Richmond145	59	1737	255	930	133	1518	189	134	175	912	1194	114	81	151	774	0	0	0	1	1172	93	32	128
5 RICH805-A	Richmond805	33	192	12	135	11	201	16	16	38	98	164	10	12	33	86	0	0	0	1	102	4	3	8

# "Freeway" Draft Map



WCCUSD - Freeway Map							
District		1	2	3	4	5	Total
Ideal	Total Pop	46,979	47,147	46,834	47,146	47,741	235,847
47,169	Deviation from ideal	-190	-22	-335	-23	572	907
	% Deviation	-0.40%	-0.05%	-0.71%	-0.05%	1.21%	1.92%
Total Pop	% Hisp	19%	31%	13%	64%	42%	34%
	% NH White	29%	20%	49%	8%	15%	24%
	% NH Black	17%	23%	10%	15%	32%	19%
	% Asian-American	31%	23%	26%	10%	9%	20%
Citizen Voting Age Pop	Total	35,679	31,987	35,516	22,323	27,265	152,771
	% Hisp	17%	23%	10%	44%	22%	22%
	% NH White	32%	26%	55%	15%	24%	32%
	% NH Black	16%	23%	9%	19%	40%	21%
	% Asian/Pac.Isl.	32%	24%	24%	18%	12%	23%
Voter Registration (Nov 2016)	Total	27,505	22,961	32,083	17,214	24,231	123,994
	% Latino est.	22%	27%	10%	50%	23%	24%
	% Spanish-Surnamed	19%	24%	9%	45%	21%	21%
	% Asian-Surnamed	10%	7%	10%	4%	3%	7%
	% Filipino-Surnamed	5%	3%	1%	2%	1%	3%
	% NH White est.	45%	37%	71%	28%	27%	44%
	% NH Black	23%	32%	11%	32%	49%	28%
Voter Turnout (Nov 2016)	Total	20,808	15,922	26,501	10,379	15,623	89,234
	% Latino est.	21%	27%	10%	51%	22%	22%
	% Spanish-Surnamed	19%	25%	9%	46%	20%	20%
	% Asian-Surnamed	10%	7%	11%	4%	4%	8%
	% Filipino-Surnamed	5%	3%	1%	2%	1%	3%
	% NH White est.	46%	38%	70%	28%	31%	47%
	% NH Black	23%	31%	11%	30%	44%	25%
Voter Turnout (Nov 2014)	Total	11,507	8,089	17,142	4,770	8,833	50,340
	% Latino est.	15%	19%	8%	38%	14%	15%
	% Spanish-Surnamed	14%	17%	7%	34%	12%	14%
	% Asian-Surnamed	8%	6%	10%	4%	3%	7%
	% Filipino-Surnamed	4%	2%	1%	2%	1%	2%
	% NH White est.	50%	39%	72%	28%	38%	51%
	% NH Black est.	23%	33%	10%	27%	42%	24%
ACS Pop. Est.	Total	48,137	49,559	48,665	48,940	50,261	245,562
Age	age0-19	21%	23%	19%	30%	27%	24%
	age20-60	55%	58%	54%	57%	57%	56%
	age60plus	24%	19%	27%	13%	15%	20%
Immigration	immigrants	29%	34%	25%	44%	33%	33%
	naturalized	71%	52%	60%	36%	30%	48%
Language spoken at home	english	60%	48%	67%	28%	49%	50%
	spanish	13%	28%	8%	57%	39%	29%
	asian-lang	19%	16%	14%	11%	9%	14%
	other lang	9%	7%	11%	4%	3%	7%
Language Fluency	Speaks Eng. "Less than Very Well"	14%	25%	13%	37%	25%	23%
Education (among those age 25+)	hs-grad	55%	57%	37%	51%	51%	50%
	bachelor	25%	17%	31%	9%	15%	20%
	graduatedegree	12%	7%	27%	3%	9%	12%
Child in Household	child-under18	27%	29%	24%	41%	30%	30%
Pct of Pop. Age 16+	employed	62%	58%	62%	58%	59%	60%
Household Income	income 0-25k	10%	18%	11%	26%	26%	18%
	income 25-50k	16%	22%	15%	27%	26%	21%
	income 50-75k	17%	18%	16%	21%	18%	18%
	income 75-200k	46%	38%	45%	25%	27%	37%
	income 200k-plus	10%	3%	14%	1%	4%	7%
Housing Stats	single family	84%	65%	81%	71%	57%	72%
	multi-family	16%	35%	19%	29%	43%	28%
	rented	26%	48%	33%	54%	59%	44%
	owned	74%	52%	67%	46%	41%	56%
Total population data from the 2010 Decennial Census.							
Surname-based Voter Registration and Turnout data from the California Statewide Database.							
Latino voter registration and turnout data are Spanish-surname counts adjusted using Census Population Department undercount estimates. NH White and NH Black registration and turnout counts estimated by NDC. Citizen Voting Age Pop., Age, Immigration, and other demographics from the 2012-2016 American Community Survey and Special Tabulation 5-year data.							

# "Schools" Draft Map



## WCCUSD - Schools Map

District		1	2	3	4	5	Total
Ideal	Total Pop	47,751	48,972	45,761	47,597	45,766	235,847
47,169	Deviation from ideal	582	1,803	-1,408	428	-1,403	3,211
	% Deviation	1.23%	3.82%	-2.99%	0.91%	-2.97%	6.81%
Total Pop	% Hisp	21%	31%	13%	62%	40%	34%
	% NH White	24%	25%	49%	8%	17%	24%
	% NH Black	17%	21%	10%	17%	32%	19%
	% Asian-American	35%	19%	25%	10%	9%	20%
Citizen Voting Age Pop	Total	35,141	33,863	34,685	21,821	27,260	152,771
	% Hisp	17%	25%	10%	43%	22%	22%
	% NH White	28%	30%	55%	14%	26%	32%
	% NH Black	16%	22%	10%	22%	38%	21%
	% Asian/Pac.Isl.	36%	22%	23%	18%	13%	23%
Voter Registration (Nov 2016)	Total	26,500	25,361	31,487	16,790	23,855	123,994
	% Latino est.	25%	25%	10%	47%	23%	24%
	% Spanish-Surnamed	22%	23%	9%	43%	20%	21%
	% Asian-Surnamed	11%	7%	10%	4%	4%	7%
	% Filipino-Surnamed	6%	3%	1%	2%	1%	3%
	% NH White est.	41%	41%	71%	26%	29%	44%
	% NH Black	23%	29%	12%	38%	46%	28%
Voter Turnout (Nov 2016)	Total	19,651	18,110	25,994	9,829	15,651	89,234
	% Latino est.	24%	25%	9%	49%	22%	22%
	% Spanish-Surnamed	22%	22%	8%	44%	20%	20%
	% Asian-Surnamed	11%	7%	11%	4%	4%	8%
	% Filipino-Surnamed	6%	2%	1%	2%	1%	3%
	% NH White est.	42%	43%	70%	26%	33%	47%
	% NH Black	23%	28%	11%	35%	42%	25%
Voter Turnout (Nov 2014)	Total	10,463	9,533	16,830	4,528	8,986	50,340
	% Latino est.	18%	17%	7%	37%	14%	15%
	% Spanish-Surnamed	16%	15%	7%	33%	12%	14%
	% Asian-Surnamed	9%	6%	10%	4%	3%	7%
	% Filipino-Surnamed	4%	2%	1%	2%	1%	2%
	% NH White est.	46%	46%	71%	22%	40%	51%
	% NH Black est.	22%	29%	10%	34%	40%	24%
ACS Pop. Est.	Total	49,514	50,095	47,699	49,707	48,547	245,562
Age	age0-19	21%	22%	19%	31%	26%	24%
	age20-60	56%	57%	54%	56%	58%	56%
	age60plus	23%	21%	27%	13%	16%	20%
Immigration	immigrants	32%	31%	25%	44%	33%	33%
	naturalized	68%	57%	59%	33%	31%	48%
Language spoken at home	english	55%	54%	67%	27%	49%	50%
	spanish	16%	26%	8%	58%	38%	29%
	asian-lang	22%	14%	14%	10%	9%	14%
	other lang	8%	7%	11%	4%	4%	7%
Language Fluency	Speaks Eng. "Less than Very Well"	17%	20%	13%	39%	25%	23%
Education (among those age 25+)	hs-grad	53%	59%	37%	50%	51%	50%
	bachelor	25%	17%	30%	9%	15%	20%
	graduatedegree	11%	8%	27%	3%	9%	12%
Child in Household	child-under18	29%	28%	24%	42%	29%	30%
Pct of Pop. Age 16+	employed	61%	59%	62%	57%	59%	60%
Household Income	income 0-25k	10%	16%	12%	28%	25%	18%
	income 25-50k	16%	22%	15%	28%	25%	21%
	income 50-75k	17%	20%	16%	19%	18%	18%
	income 75-200k	48%	38%	44%	23%	28%	37%
	income 200k-plus	9%	5%	13%	1%	4%	7%
Housing Stats	single family	83%	71%	80%	66%	58%	72%
	multi-family	17%	29%	20%	34%	42%	28%
	rented	26%	44%	34%	59%	57%	44%
	owned	74%	56%	66%	41%	43%	56%
Total population data from the 2010 Decennial Census.							
Surname-based Voter Registration and Turnout data from the California Statewide Database.							
Latino voter registration and turnout data are Spanish-surname counts adjusted using Census Population Department undercount estimates. NH White and NH Black registration and turnout counts estimated by NDC. Citizen Voting Age Pop., Age, Immigration, and other demographics from the 2012-2016 American Community Survey and Special Tabulation 5-year data.							