

June 17, 2021

MEETING NOTICE & REQUEST FOR RSVP**TO: REDISTRICTING ADVISORY COMMITTEE****Jurisdiction**District 1
District 2
District 3
District 4
District 5
District 6
District 7**Representative**Swanee Edwards
Emilie Gatfield
Michael Kraus
Michael Gross
Hon. Howard Miller
Alfredo M. Morales
Raven Malone

The training meeting of the Redistricting Advisory Committee is scheduled to be held on **Wednesday, June 23, 2021, at 6:00 p.m.**, Join Zoom Meeting

<https://valleywater.zoom.us/j/82398761452>.

Enclosed are the meeting agenda and corresponding materials. Please bring this packet with you to the meeting. Additional copies of this meeting packet are available on our new website at <https://www.valleywater.org/how-we-operate/committees/board-advisory-committees> or <https://www.valleywater.org/sites/default/files/RAC-Agenda-06232021.pdf>.

A majority of the appointed membership is required to constitute a quorum, which is fifty percent plus one. A quorum for this meeting must be confirmed at least **48 hours** prior to the scheduled meeting date or it will be canceled.

Further, a quorum must be present on the day of the scheduled meeting to call the meeting to order and take action on agenda items.

Members with two or more consecutive unexcused absences will be subject to rescinded membership.

Please confirm your attendance by contacting Ms. Glenna Brambill at 1-408-630-2408, or gbrambill@valleywater.org.

Enclosures



Redistricting Advisory Committee Meeting

Join Zoom Meeting

<https://valleywater.zoom.us/j/82398761452>

Meeting ID: 823 9876 1452

One tap mobile

+16699009128,,82398761452# US (San Jose)

Dial by your location

+1 669 900 9128 US (San Jose)

Meeting ID: 823 9876 1452



Santa Clara Valley Water District Redistricting Advisory Committee Meeting

Teleconference Zoom Meeting

Join Zoom Meeting:

<https://valleywater.zoom.us/j/82398761452>

TRAINING MEETING AGENDA

**Wednesday, June 23, 2021
6:00 PM**

District Mission: Provide Silicon Valley safe, clean water for a healthy life, environment and economy.

REDISTRICTING ADVISORY
COMMITTEE

During the COVID-19 restrictions, all public records relating to an open session item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body, will be available to the public through the legislative body agenda web page at the same time that the public records are distributed or made available to the legislative body, or through a link in the Zoom Chat Section during the respective meeting. Santa Clara Valley Water District will make reasonable efforts to accommodate persons with disabilities wishing to participate in the legislative body's meeting. Please advise the Clerk of the Board Office of any special needs by calling (408) 265-2600.

Mr. Don Rocha (Staff Liaison)
Deputy Administrative
Officer

Ms. Glenna Brambill
(COBLiaison)
Management Analyst II
gbrambill@valleywater.org
1-408-630-2408

Note: The finalized Board Agenda, exception items and supplemental items will be posted prior to the meeting in accordance with the Brown Act.

**Santa Clara Valley Water District
Redistricting Advisory Committee
TRAINING MEETING
AGENDA**

Wednesday, June 23, 2021

6:00 PM

Teleconference Zoom Meeting

IMPORTANT NOTICES

This meeting is being held in accordance with the Brown Act as currently in effect under the State Emergency Services Act, the Governor's Emergency Declaration related to COVID-19, and the Governor's Executive Order N-29-20 issued on March 17, 2020 that allows attendance by members of the Committee, staff, and the public to participate and conduct the meeting by teleconference, videoconference, or both.

Members of the public wishing to address the Committee during a video conferenced meeting on an item not listed on the agenda, or any item listed on the agenda, should use the "Raise Hand" tool located in Zoom meeting link listed on the agenda. Speakers will be acknowledged by the Committee Chair in the order requests are received and granted speaking access to address the Committee.

Santa Clara Valley Water District (Valley Water) in complying with the Americans with Disabilities Act (ADA), requests individuals who require special accommodations to access and/or participate in Valley Water Committee meetings to please contact the Clerk of the Board's office at (408) 630-2711, at least 3 business days before the scheduled meeting to ensure that Valley Water may assist you.

This agenda has been prepared as required by the applicable laws of the State of California, including but not limited to, Government Code Sections 54950 et. seq. and has not been prepared with a view to informing an investment decision in any of Valley Water's bonds, notes or other obligations. Any projections, plans or other forward-looking statements included in the information in this agenda are subject to a variety of uncertainties that could cause any actual plans or results to differ materially from any such statement. The information herein is not intended to be used by investors or potential investors in considering the purchase or sale of Valley Water's bonds, notes or other obligations and investors and potential investors should rely only on information filed by Valley Water on the Municipal Securities Rulemaking Board's Electronic Municipal Market Access System for municipal securities disclosures and Valley Water's Investor Relations website, maintained on the World Wide Web at <https://emma.msrb.org/> and <https://www.valleywater.org/how-we-operate/financebudget/investor-relations>, respectively.

Under the Brown Act, members of the public are not required to provide identifying information in order to attend public meetings. Through the link below, the Zoom webinar program requests entry of a name and email address, and Valley Water is unable to modify this requirement. Members of the public not wishing to provide such identifying information are encouraged to enter "Anonymous" or some other reference under name and to enter a fictional email address (e.g., attendee@valleywater.org) in lieu of their actual address. Inputting such values will not impact your ability to access the meeting through Zoom.

Join Zoom Meeting:
<https://valleywater.zoom.us/j/82398761452>

Dial by your location
+1 669 900 9128 US (San Jose)
Meeting ID: 823 9876 1452

1. CALL TO ORDER:

1.1. Roll Call.

2. INTRODUCTIONS

3. APPROVAL OF MINUTES:

3.1. Approval of Meeting Minutes.

[21-0519](#)

Recommendation: Approve the April 20, 2021, Meeting Minutes.

Manager: Michele King, 408-630-2711

Attachments: [Attachment 1: 04202021 RAC DRAFT Mins](#)

Est. Staff Time: 5 Minutes

4. ACTION ITEMS:

4.1. Election of Chair and Vice Chair

4.2. Redistricting Advisory Committee Training Session #1.

[21-0520](#)

Recommendation: That the Redistricting Advisory Committee (RAC) receive background information on several topics related to the RAC's charge to review 2020 census data and recommend adjustments in district boundaries, if needed, to the Board of Directors.

Manager: Don Rocha, 408-630-2338

Attachments: [Attachment 1: PowerPoint](#)
[Attachment 2: Redistricting Manual 2021](#)

Est. Staff Time: 60 Minutes

4.3. Next Meeting and Agenda Items.

[21-0521](#)

Recommendation: Discuss and confirm next meeting date and agenda items.

Manager: Michele King, 408-630-2711

Attachments: [Attachment 1: Schedule](#)

5. TIME OPEN FOR PUBLIC COMMENT ON ANY ITEM NOT ON THE AGENDA. *Notice to the Public: Members of the public who wish to address the Committee on any item not listed on the agenda should access the "Raise Hand" tool located in Zoom meeting link listed on the agenda. Speakers will be acknowledged by the Committee Chair in order requests are received and granted speaking access to address the Committee. Speakers comments should be limited to two minutes or as set by the Chair. The law does not permit Committee action on, or extended discussion of, any item not on the agenda except under special circumstances. If Committee action is requested, the matter may be placed on a future agenda. All comments that require a response will be referred to staff for a reply in writing. The Committee may take action on any item of business appearing on the posted agenda.*

6. REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS.

This is an opportunity for the Clerk to review and obtain clarification on any formally moved, seconded, and approved requests and recommendations made by the Committee during the meeting.

7. ADJOURN:

7.1. Adjourn



Santa Clara Valley Water District

File No.: 21-0519

Agenda Date: 6/16/2021
Item No.: 2.1.

COMMITTEE AGENDA MEMORANDUM

Redistricting Advisory Committee

SUBJECT:

Approval of Meeting Minutes.

RECOMMENDATION:

Approve the April 20, 2021, Meeting Minutes.

SUMMARY:

A summary of Committee discussions, and details of all actions taken by the Committee, during all open and public Committee meetings, is transcribed and submitted for review and approval.

Upon Committee approval, minutes transcripts are finalized and entered into the District's historical records archives and serve as historical records of the Committee's meetings.

ATTACHMENTS:

Attachment 1: 04202021 RAC Draft Meeting Minutes

UNCLASSIFIED MANAGER:

Michele King, 408-630-2711



REDISTRICTING ADVISORY COMMITTEE MEETING

DRAFT MINUTES

**TUESDAY, APRIL 20, 2021
6:00 PM**

An orientation meeting of the Redistricting Advisory Committee was held on April 20, 2021, Teleconference via Zoom in San Jose, California.

1. CALL TO ORDER/ROLL CALL

Board Committee Liaison Ms. Glenna Brambill called the meeting to order at 6:06 p.m.

Members in attendance were:

Jurisdiction

District 2
District 3
District 4
District 5
District 6
District 7

Representative

Emilie Gatfield
Michael Kraus
Michael Gross
Hon. Howard Miller
Alfredo Morales
Raven Malone

Member not in attendance was:

Jurisdiction

District 1

Representative

Juan Miguel Muñoz Morris

Board Member in attendance was: 2021 Board Chair Director Tony Estremera-District 6, Board Representative.

Staff in attendance were: Glenna Brambill, Rick Callender, Lisa Flores, Rachael Gibson, Michael Potter, Don Rocha, and Jim Webb.

Consultants (Redistricting Partners) in attendance were: Chris Chaffee, Paul Mitchell, and Kimi Shigetani.

Public in attendance were: Director Nai Hsueh (District 4), Director Richard P. Santos (District 3), and Director John L. Varela (District 1).

2. WELCOME

Board Chair Director Tony Estremera opened with remarks, welcoming and thanking the Committee for their participation and commitment to the redistricting process.

3. INTRODUCTIONS:

Mr. Don Rocha introduced the other Board Members in attendance:

- Director Nai Hsueh-District 5,
- Director Richard P. Santos-District 3, and
- Director John L. Varela-District 1

Mr. Don Rocha introduced himself as the Deputy Administrative Officer - Office of Government Affairs, and other Valley Water Staff:

- Ms. Rachael Gibson - Chief of External Affairs,
- Mr. Jim Webb - Senior Management Analyst - Office of Government Affairs,
- Ms. Lisa Flores - Fellow - Office of Government Affairs, and
- Ms. Glenna Brambill - Management Analyst II - Office of the Clerk of the Board

The Consultants of Redistricting Partners:

- Mr. Paul Mitchell - Principal Officer,
- Mr. Chris Chaffee - Chief Operations Officer, and
- Ms. Kimi Shigetani - Project Manager

The Committee Members introduced themselves and gave a quick overview of their backgrounds/experiences:

- Ms. Emilie Gatfield – District 2,
- Mr. Michael Kraus – District 3,
- Mr. Michael Gross – District 4,
- Hon. Howard Miller – District 5,
- Mr. Alfredo Morales – District 6, and
- Ms. Raven Malone – District 7

4. ELECTION OF CHAIR PRO TEMPORE:

The Committee unanimously by roll call voted Hon. Howard Miller as Chair Pro Tempore.

5. DISCUSSION AND POSSIBLE ACTION ITEMS:

5.1 PRESENTATION FROM OFFICE OF GOVERNMENT RELATIONS (OGR) AND CONSULTANT

Mr. Don Rocha reported on the role and objectives of the Office of Government Relations and Consultants.

The Redistricting Committee discussed the following: Redistricting Advisory Committee's roles and responsibilities, the redistricting process, the Federal Voting Rights Act, update on census bureau data, schedule of meetings and receiving information in a timely manner, necessary training, Brown Act, redistricting overview, training on redistricting map software, the Fair Maps Act, and community outreach.

The Redistricting Advisory Committee took no action.

5.2 REDISTRICTING ADVISORY COMMITTEE ORIENTATION

Mr. Paul Mitchell reviewed the materials as outlined in the agenda.

The Redistricting Committee discussed the following: the redistricting process, the principles of the Federal Voting Rights Act, update on census bureau data, and receiving information in a timely manner.

Director Tony Estremera and Mr. Don Rocha were available to answer questions.

The Redistricting Advisory Committee took no action.

5.3 NEXT STEPS

Mr. Don Rocha gave a quick overview of a tentative schedule:

- June 2021-training, September through December-public meetings/hearings,
- January-Committee's maps recommendation goes to the Board,
- February 2022-Board meets and discusses the Committee's recommendation, and
- March 2022-the Board will make a decision on Committee's recommendations.

6. TIME OPEN FOR PUBLIC COMMENT ON ANY ITEM NOT ON THE AGENDA

There was no one present who wished to speak.

7. CLERK REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS TO THE BOARD

Ms. Glenna Brambill reported there were no action items for Board consideration

8. ADJOURNMENT

Chair Pro Tempore Hon. Howard Miller adjourned at 7:10 p.m. to be called to order in compliance with the State Emergency Services Act, the Governor's Emergency Declaration related to COVID-19, and the Governor's Executive Order N-29-20.

Glenna Brambill
Board Committee Liaison
Office of the Clerk of the Board

Approved:



Santa Clara Valley Water District

File No.: 21-0520

Agenda Date: 6/23/2021

Item No.: 4.2.

COMMITTEE AGENDA MEMORANDUM

Redistricting Advisory Committee

SUBJECT:

Redistricting Advisory Committee Training Session #1.

RECOMMENDATION:

That the Redistricting Advisory Committee (RAC) receive background information on several topics related to the RAC's charge to review 2020 census data and recommend adjustments in district boundaries, if needed, to the Board of Directors.

SUMMARY:

The District Act, in addition to federal and state law, requires that the boundaries of the Santa Clara Valley Water District's (Valley Water's) electoral districts be adjusted, if needed, following a decennial federal census.

Adjustments of electoral districts are accomplished through the completion of a redistricting study to ensure that each modified district meets the one-person, one-vote test and to ensure compliance with the federal Voting Rights Act.

On January 26, 2021, the Board approved the establishment of the Redistricting Advisory Committee (RAC) to oversee the redistricting study, receive public input on electoral district boundaries, and recommend draft maps with boundary adjustments, if needed, to the Board for review and adoption. The RAC consists of seven members of the public, who have been appointed by the Board and represent the seven Board member districts.

On April 20, 2021, the RAC held its first meeting, focused on orientation. Over the months of June, July and August, the RAC will conduct three training meetings to receive background information that will be useful in carrying out its charge. During the June 23 meeting, the RAC will receive a "Redistricting 101" background briefing from the consultant team. The presentation will include background information on the definition of redistricting, traditional redistricting principles (including an introduction to the concept of "communities of interest"), the federal Voting Rights Act, the California Voting Rights Act, a definition of gerrymandering and how it works, and background information on census databases. In addition, the RAC will receive information on Valley Water's "Be Heard" tool as a channel for public input.

ATTACHMENTS:

Attachment 1: PowerPoint Presentation - Redistricting 101

Attachment 2: Redistricting Manual

File No.: 21-0520

Agenda Date: 6/23/2021
Item No.: 4.2.

UNCLASSIFIED MANAGER:
Don Rocha, 408-630-2338

Santa Clara Valley Water District

Redistricting
Advisory
Committee

Redistricting 101
June 23, 2021



Overview

This presentation will cover a range of topics and expand on the technical aspects of the redistricting process.

- What is Redistricting?
- State and Federal Voting Rights Act
- What is Gerrymandering
- Traditional Redistricting Principles
- Census Data

Overview

This presentation will cover a range of topics and expand on the technical aspects of the redistricting process.

- **What is Redistricting?**
- State and Federal Voting Rights Act
- What is Gerrymandering
- Traditional Redistricting Principles
- Census Data

What is Redistricting?

Redistricting is at its core the act of equalizing population among districts.

This is important in order to meet two requirements - one constitutional, one from Supreme Court precedent:

- *Equal Representation (14th Amendment)* - how effective any resident can be at advocating for themselves or being represented within a jurisdiction.
- *One Person One Vote* - equal ability to elect a candidate of choice.

What is Redistricting?

Redistricting has changed significantly over the years as federal and state laws, norms, best practices, and public opinion has transformed.

In Federal Law:

- Elimination of part of the Voting Rights Act
- Supreme Court Decisions
- HR1 – currently in Congress

What is Redistricting?

Redistricting has changed significantly over the years as federal and state laws, norms, best practices, and public opinion has transformed.

In California/Municipal Law:

- Prop 11 and 20 (Statewide Redistricting)
- CA FAIR MAPS Act

What is Redistricting?

Redistricting has changed significantly over the years as federal and state laws, norms, best practices, and public opinion has transformed.

In Public Opinion / Media:

- 97% of Voters agree that “local government should be required to have transparent / open redistricting.”
- Media and Community Based Organizations have become much more adept at covering redistricting.

Overview

This presentation will cover a range of topics and expand on the technical aspects of the redistricting process.

- What is Redistricting?
- **State and Federal Voting Rights Act**
- What is Gerrymandering
- Traditional Redistricting Principles
- Census Data

What is the Voting Rights Act?

The Voting Rights Act is federal Law that seeks to remedy racial disenfranchisement. It has two sections impacting redistricting:

Section 2 – Majority Minority Districts

Section 5 – Preclearance (inactive)

The California Voting Rights Act prohibits the use of At Large Election Systems in local government if there is Racially Polarized Voting. *Does not impact San Jose.*

What is the Voting Rights Act?

The Voting Rights Act Section 2 is enforced when an jurisdiction meets certain preconditions:

- 1) A minority group must be sufficiently large and geographically compact to comprise a majority of the district;
- 2) The minority group must be politically cohesive (it must demonstrate a pattern of voting for the same candidates, also known as “bloc voting”); and,
- 3) A majority of voters vote sufficiently as a bloc usually to defeat the minority group’s preferred candidate.

What is the Voting Rights Act?

Determining Section 2 obligation requires legal counsel and sometimes a racially polarized voting analysis.

- Does the minority population qualify under Section 2?
- Is the proposed district a sufficient remedy – is it an “effective” majority minority district?
- Is there a claim for a coalition district?
- *Without Section 2, a community of interest can still be supported but race cannot be a predominant factor in drawing lines.*

Overview

This presentation will cover a range of topics and expand on the technical aspects of the redistricting process.

- What is Redistricting?
- State and Federal Voting Rights Act
- **What is Gerrymandering**
- Traditional Redistricting Principles
- Census Data

What is Gerrymandering

The Gerrymander

The term Gerrymander came from a cartoon depicting a rather serpentine looking district created by Governor Elbridge Gerry in Massachusetts.

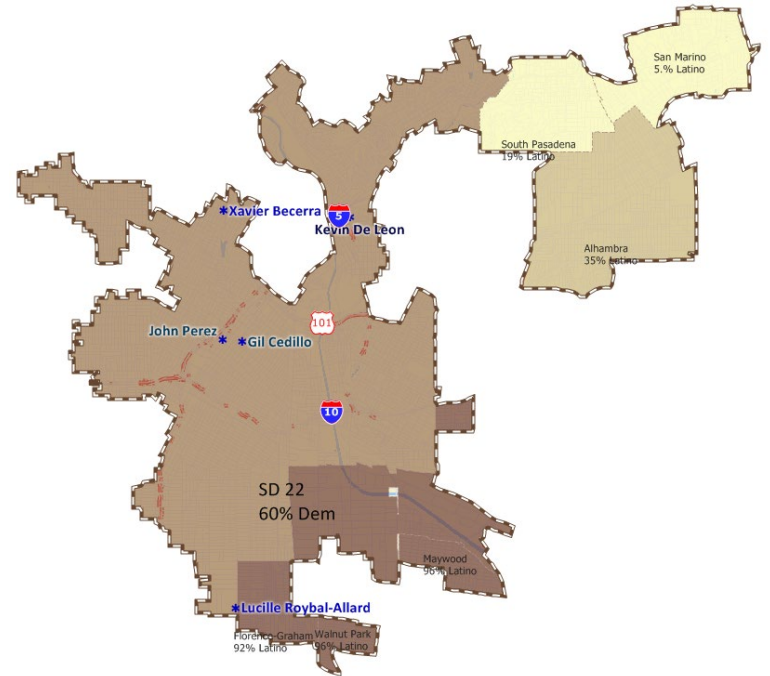


What is Gerrymandering

the Gerrymander

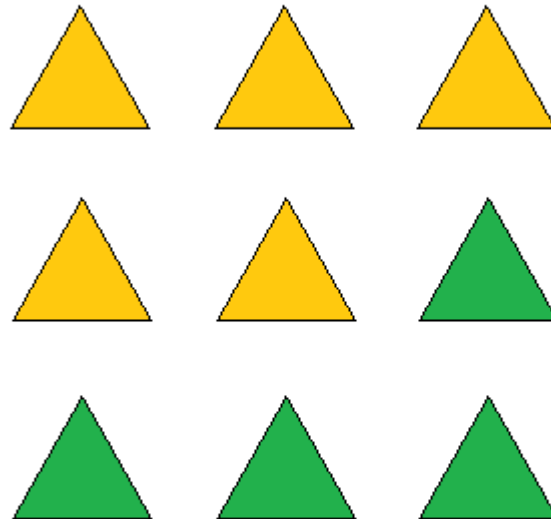
There are more recent examples of gerrymandering, even in California.

This 2001 Senate District is a great example.



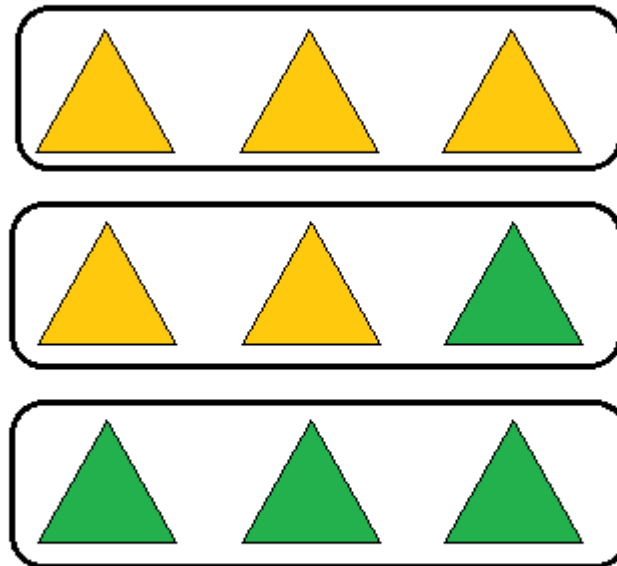
What is Gerrymandering

How does gerrymandering work?



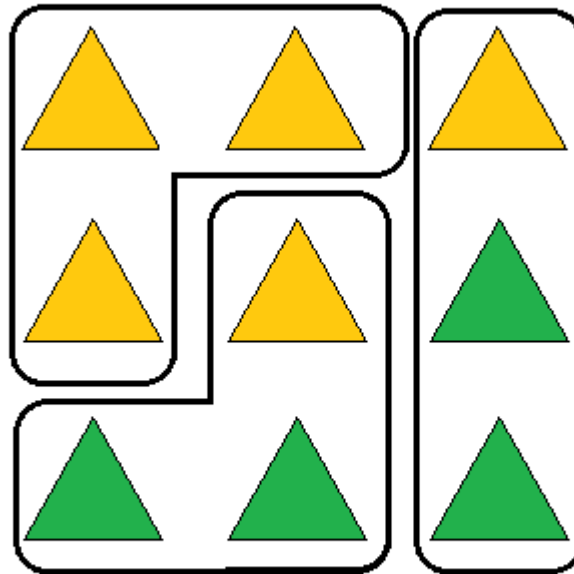
What is Gerrymandering

How does gerrymandering work?



What is Gerrymandering

How does gerrymandering work?



What is Gerrymandering

Types of Gerrymanders

The two primary types of gerrymanders are Partisan and Racial, but there are more.

Partisan Gerrymandering – current Supreme Court has determined these *non-justiciable* but some state and local laws have stepped in to ban them.

Racial Gerrymandering – courts have repeatedly found these to be unlawful.

Incumbent Gerrymandering – common in any redistricting conducted by the agency itself.

Overview

This presentation will cover a range of topics and expand on the technical aspects of the redistricting process.

- What is Redistricting?
- State and Federal Voting Rights Act
- What is Gerrymandering
- **Traditional Redistricting Principles**
- Census Data

Traditional Redistricting Principles

Preventing a Districting from becoming a Gerrymander

There are a number of criteria that have been used nationally and upheld by courts.

- Relatively equal size - people, not citizens
- Contiguous – districts should not hop/jump
- Maintain “*communities of interest*”
- Follow city and census designated place boundaries
- Keep districts compact – appearance/function

Traditional Redistricting Principles

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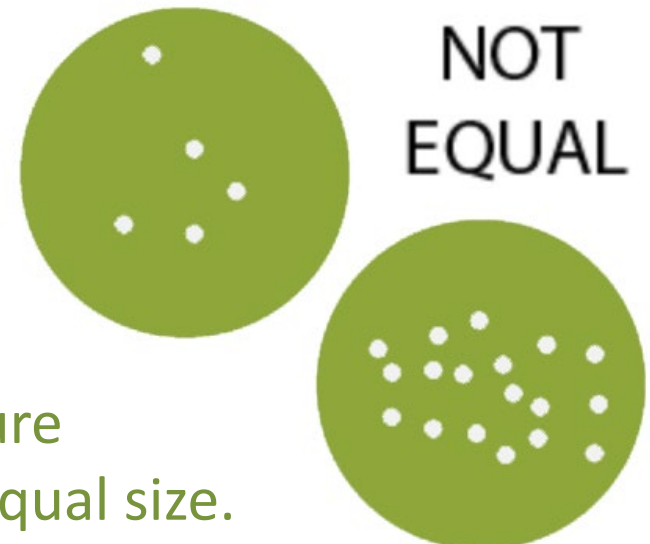
- **Relatively equal size - people, not citizens**
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Equal Population

Utilizing the U.S. Census Decennial File

What is “equal” population has been a key subject in redistricting litigation.

- Population Equality is based on “People” not citizens or voters or other metrics.
- The metric used is called “deviation” which is a measure of how close a district is to equal size.

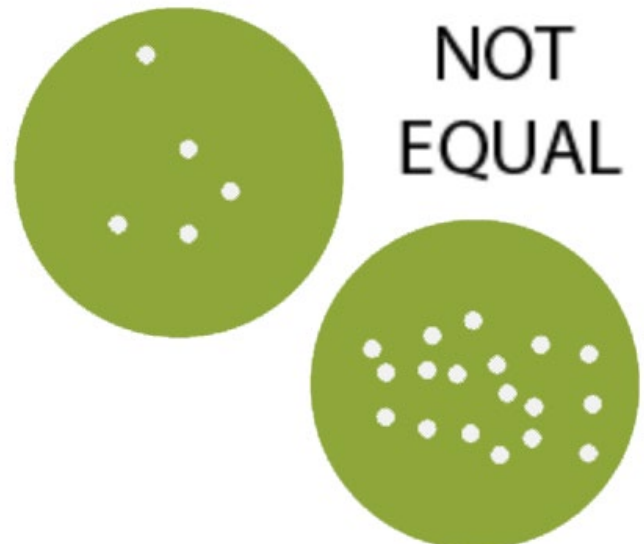


Equal Population

Utilizing the U.S. Census Decennial File

What is “equal” population has been a key subject in redistricting litigation.

- Congress: 1 Person
- Local Govt: 10%
- Legislative/others: 1%-5% or other more restrictive by choice.

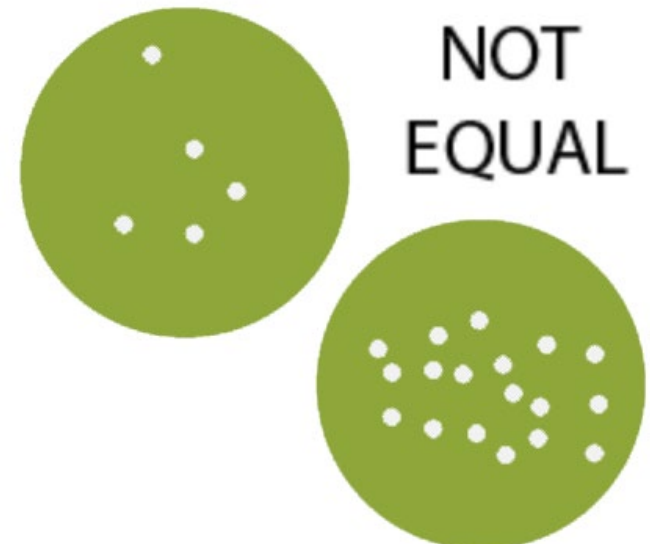


Equal Population

Utilizing the U.S. Census Decennial File

What is “equal” population has been a key subject in redistricting litigation.

- Equality is Required
- *Strict adherence to a numeric goal for equality beyond what is required is not necessarily better.*



Traditional Redistricting Principles

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Contiguity

Two definitions for what is contiguous

Contiguity should be thought of as “literal” and “functional.”

- An area that is one whole piece is “literally contiguous.”
- An area that represents how the population functions or how people are connected is “functionally contiguous.”



Contiguity

Two definitions for what is contiguous

Contiguity should be thought of as “literal” and “functional.”

- Treasure Island: not literally contiguous to San Francisco, but is “functionally contiguous”
- Two houses on either side of the 101 could be literally contiguous, but not functionally.



Traditional Redistricting Principles

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- Keep districts compact – appearance/function

Communities of Interest

Bringing like people together for representation

A community of interest includes ethnic and language minorities and other groups as discussed.

- Many more, including:
 - LGBTQ+ Communities
 - Senior Citizens or Students
 - Downtown / Urban
 - Rural or Agricultural
 - Homeowners or Renters

Communities of Interest

Bringing like people together for representation

What are you looking for in trying to judge the applicability of a Community of Interest to the redistricting process?

- Group with shared culture / characteristics
- Geographic Nature / Density / Ability to be mapped
- Relationship to Agency / Policies

Traditional Redistricting Principles

Preventing a Districting from becoming a Gerrymander

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- Maintain “*communities of interest*”
- **Follow city and census designated place boundaries**
- Keep districts compact – appearance/function

Protecting Cities & CSBs

Bringing like people together for representation

FAIR MAPS Act:

To the extent practicable, the geographic integrity of a city or census designated place shall be respected in a manner that minimizes its division.

Traditional Redistricting Principles

Preventing a Districting from becoming a Gerrymander

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- Contiguous – districts should not hop/jump
- Maintain “*communities of interest*”
- Follow city and census designated place boundaries
- **Keep districts compact – appearance/function**

Compactness

Determining what is “compact”

The measure of compactness can get complicated.

- Ratio of the circumference of a district and the area of a district.
- Measuring the number of distinct straight lines and the number of kinks and bends.
- Simply outlawing funny shapes.

NOT
COMPACT

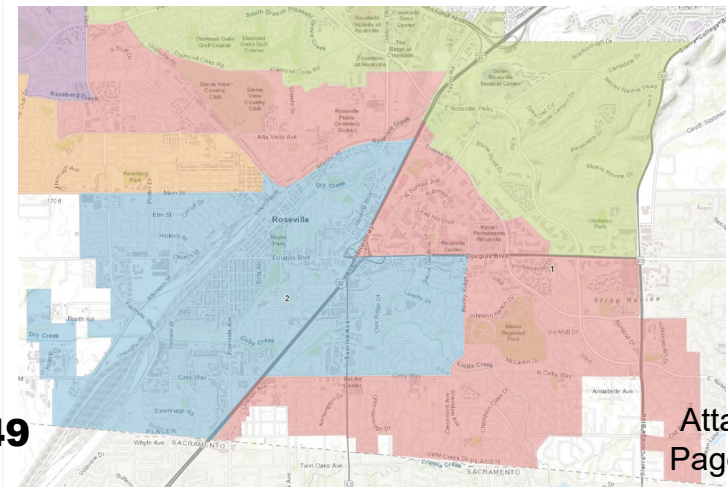
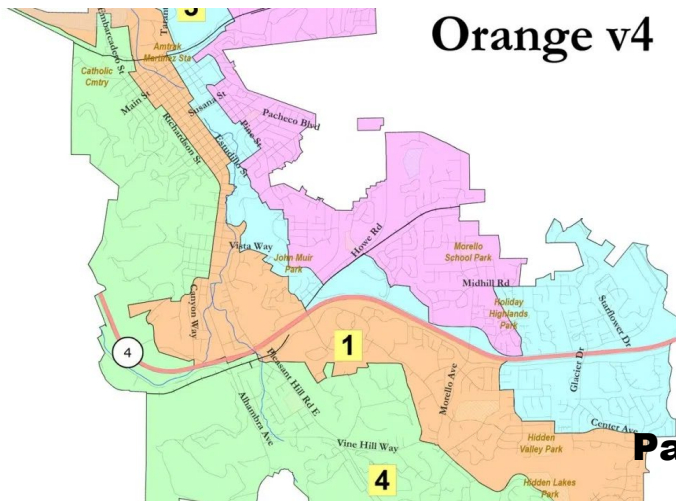


Compactness

Determining what is “compact”

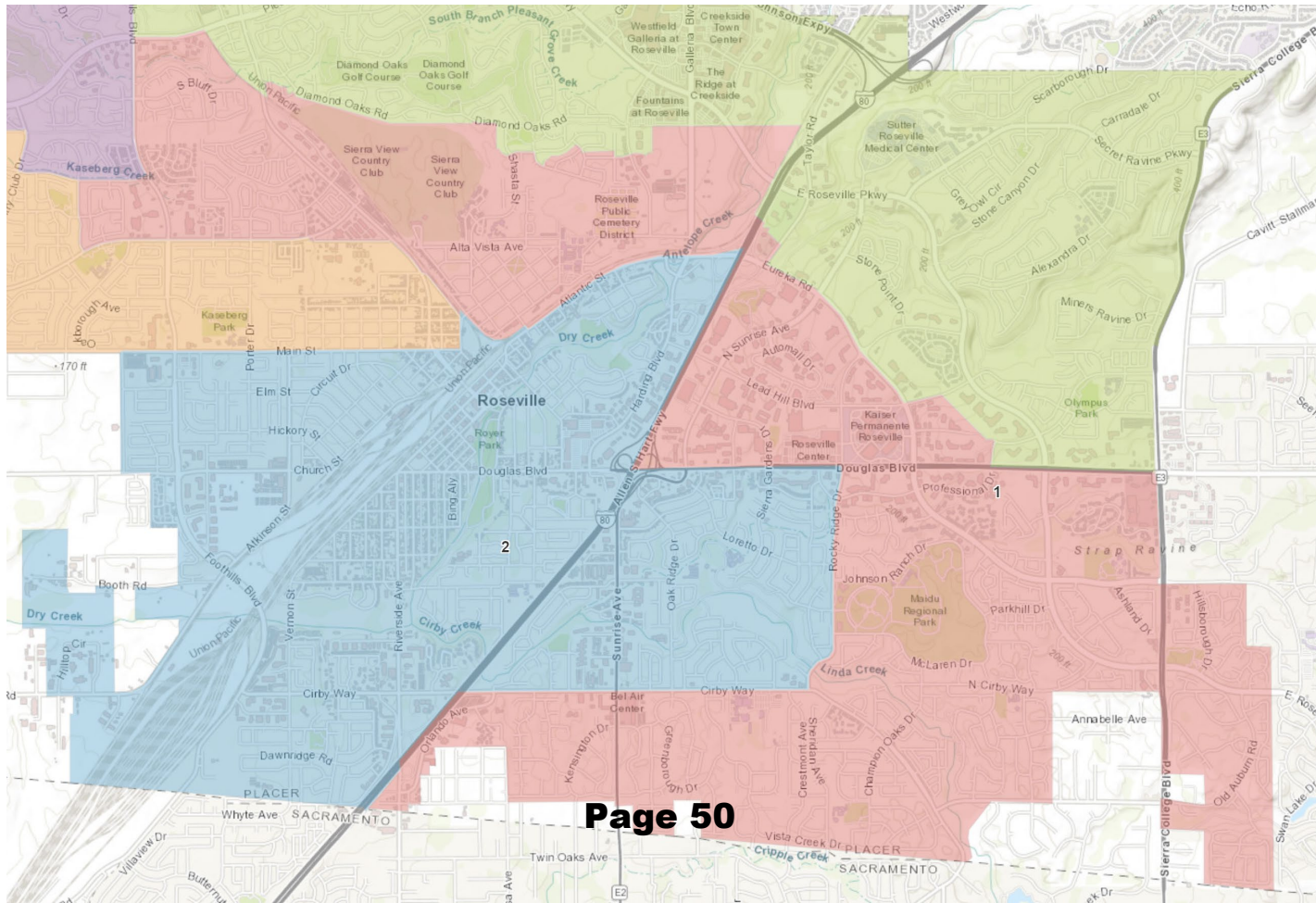
California has a rather elegant/simple definition.

- Not bypassing nearby populated areas in favor of more distant populated areas



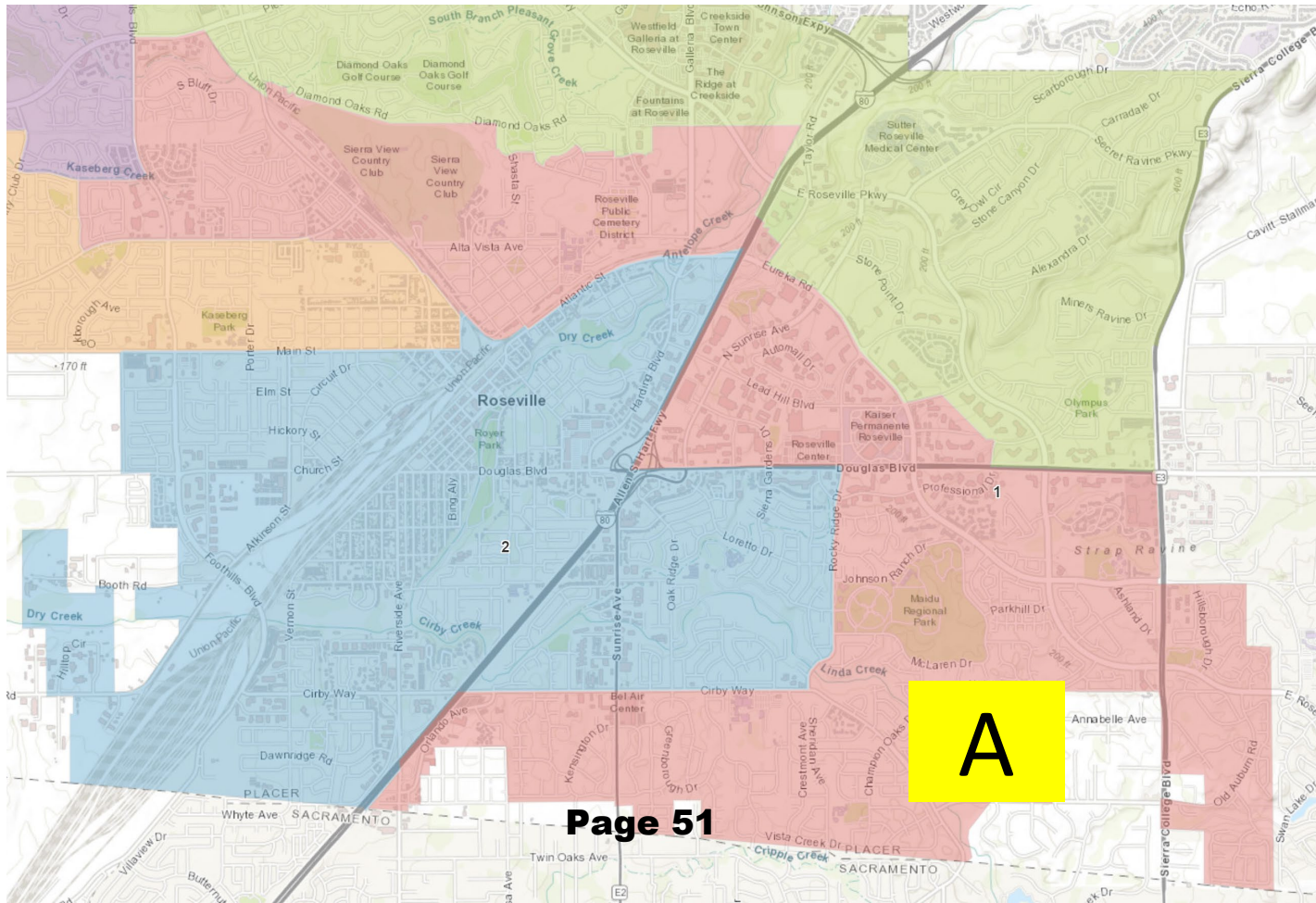
Compactness

Determining what is “compact”



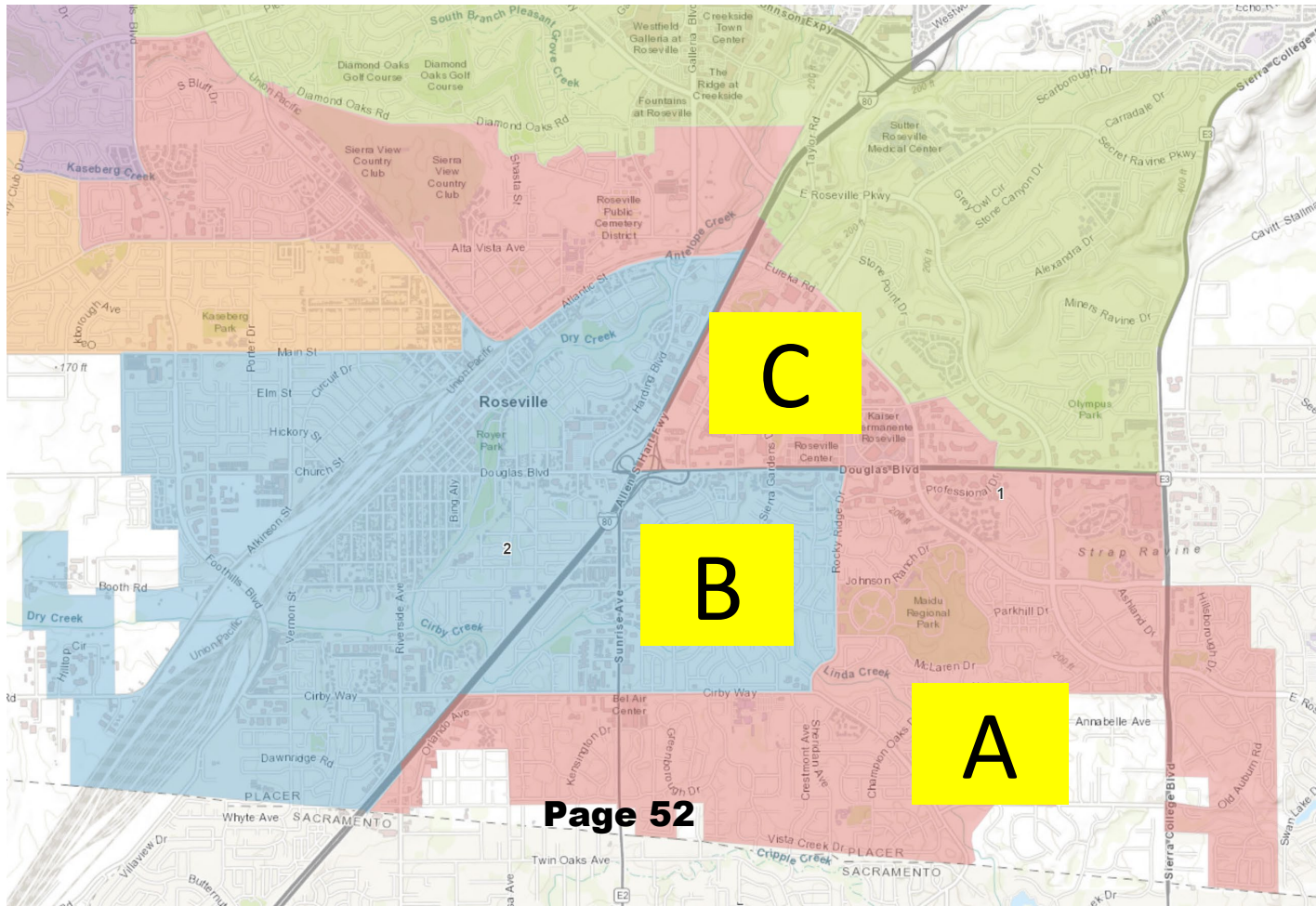
Compactness

Determining what is “compact”



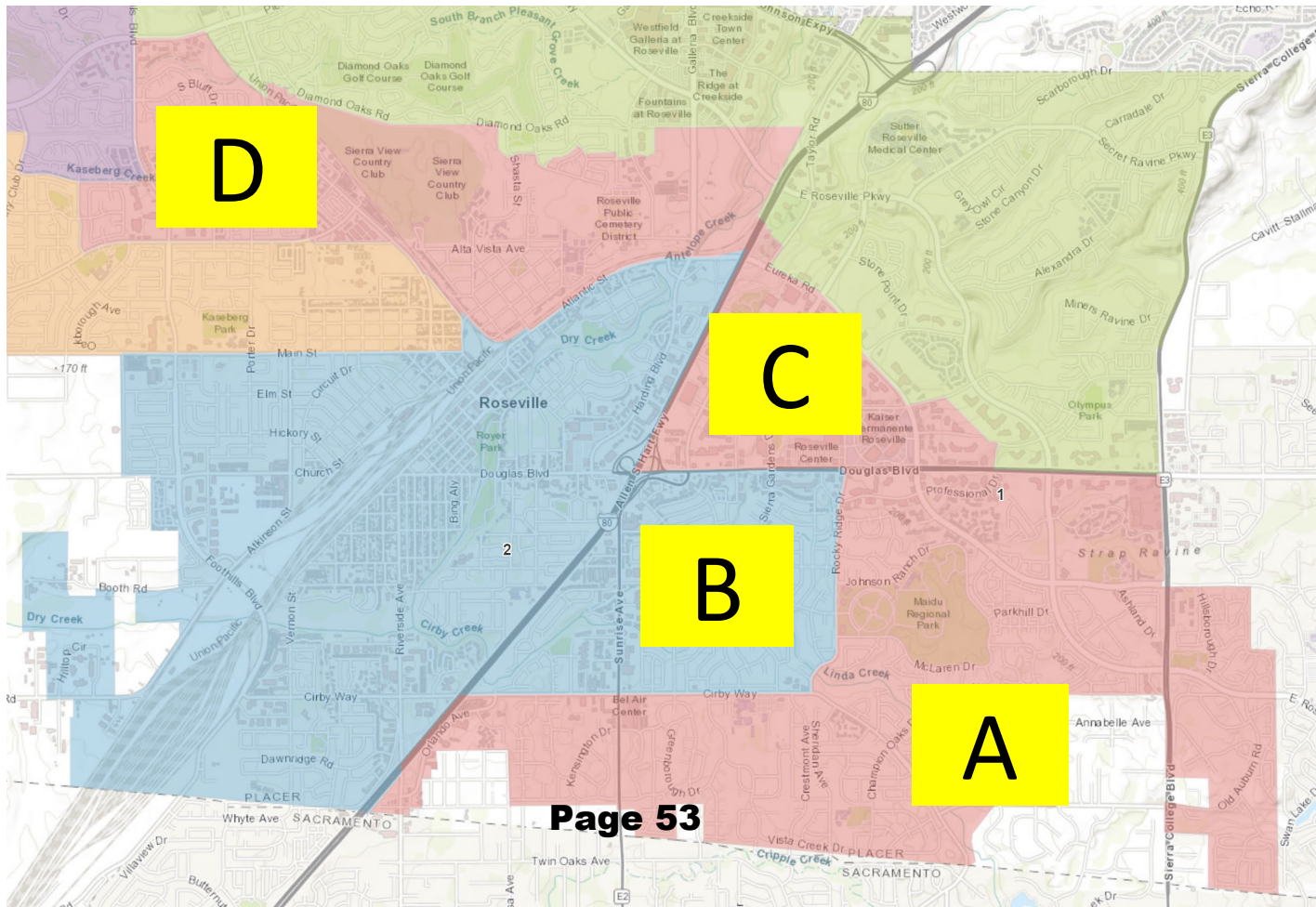
Compactness

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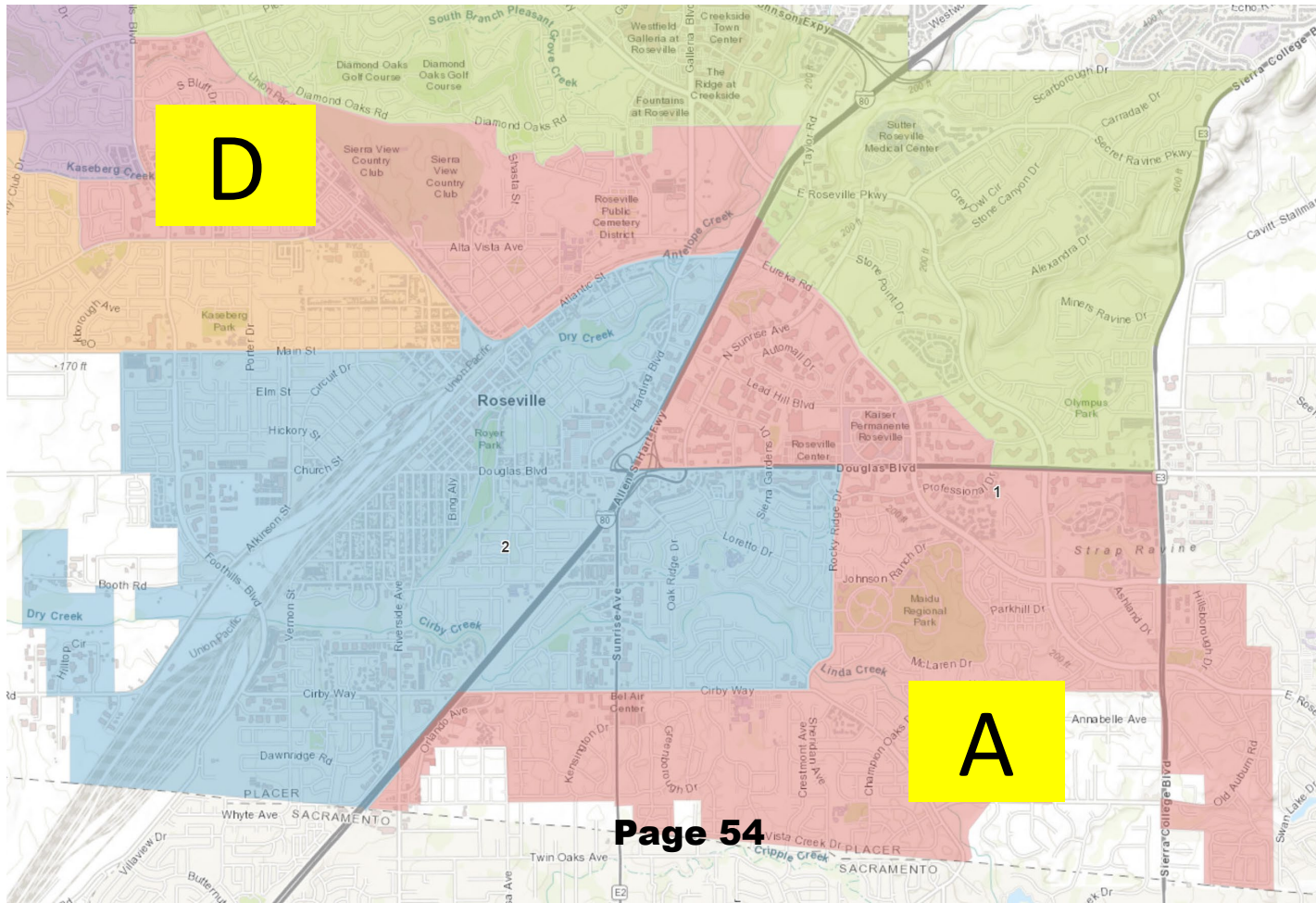
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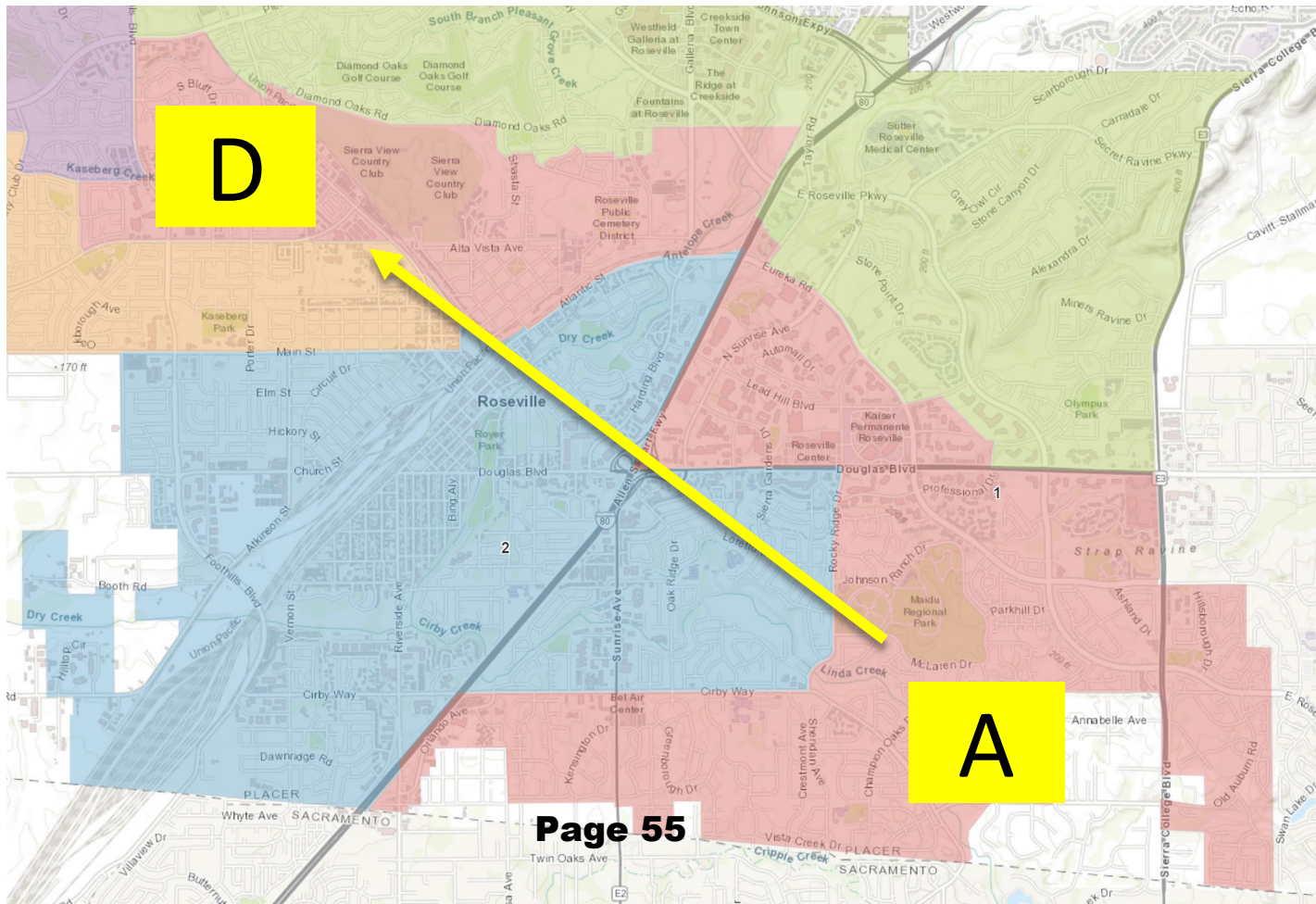
Compactness

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Compactness

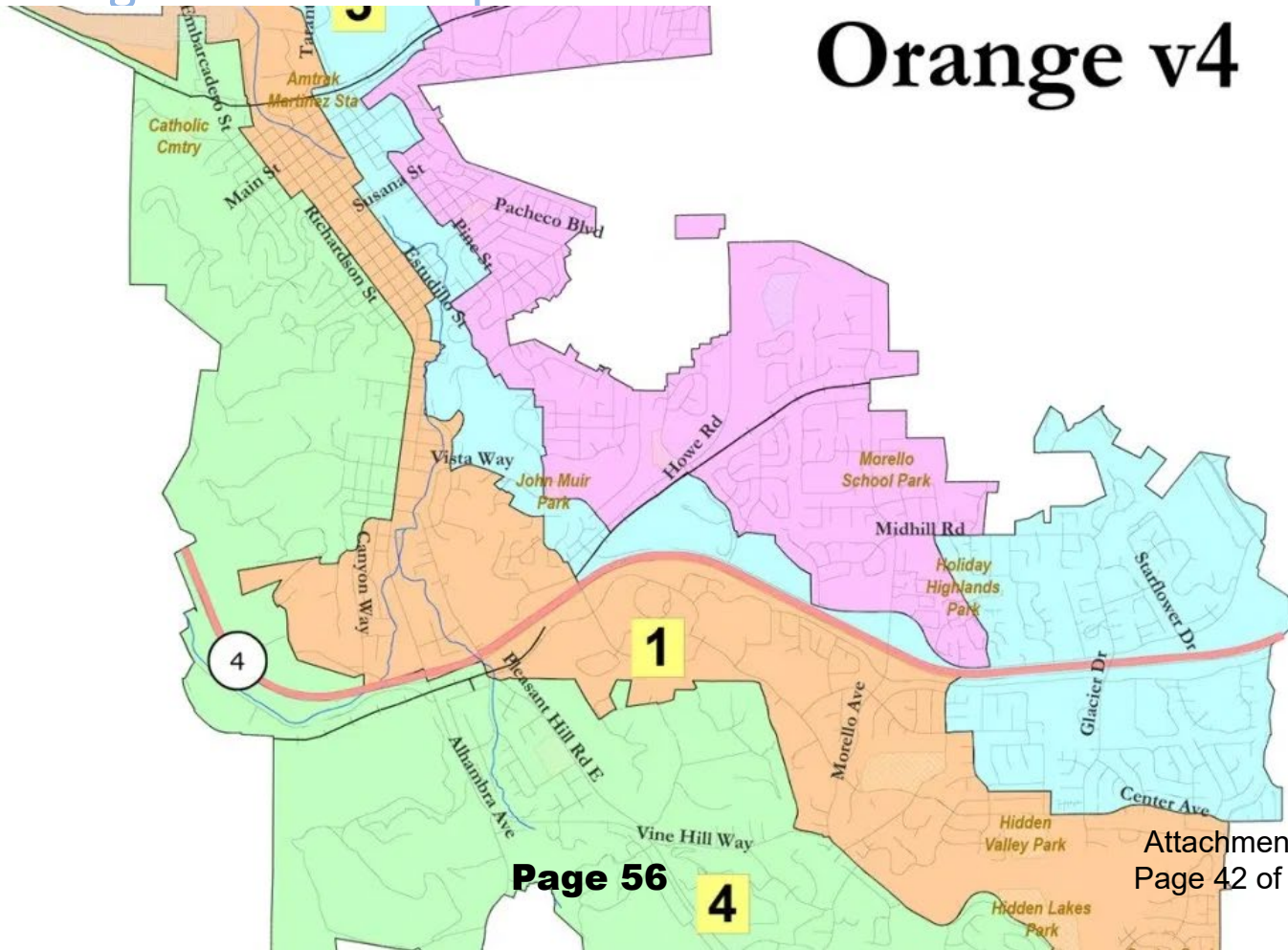
Determining what is “compact”

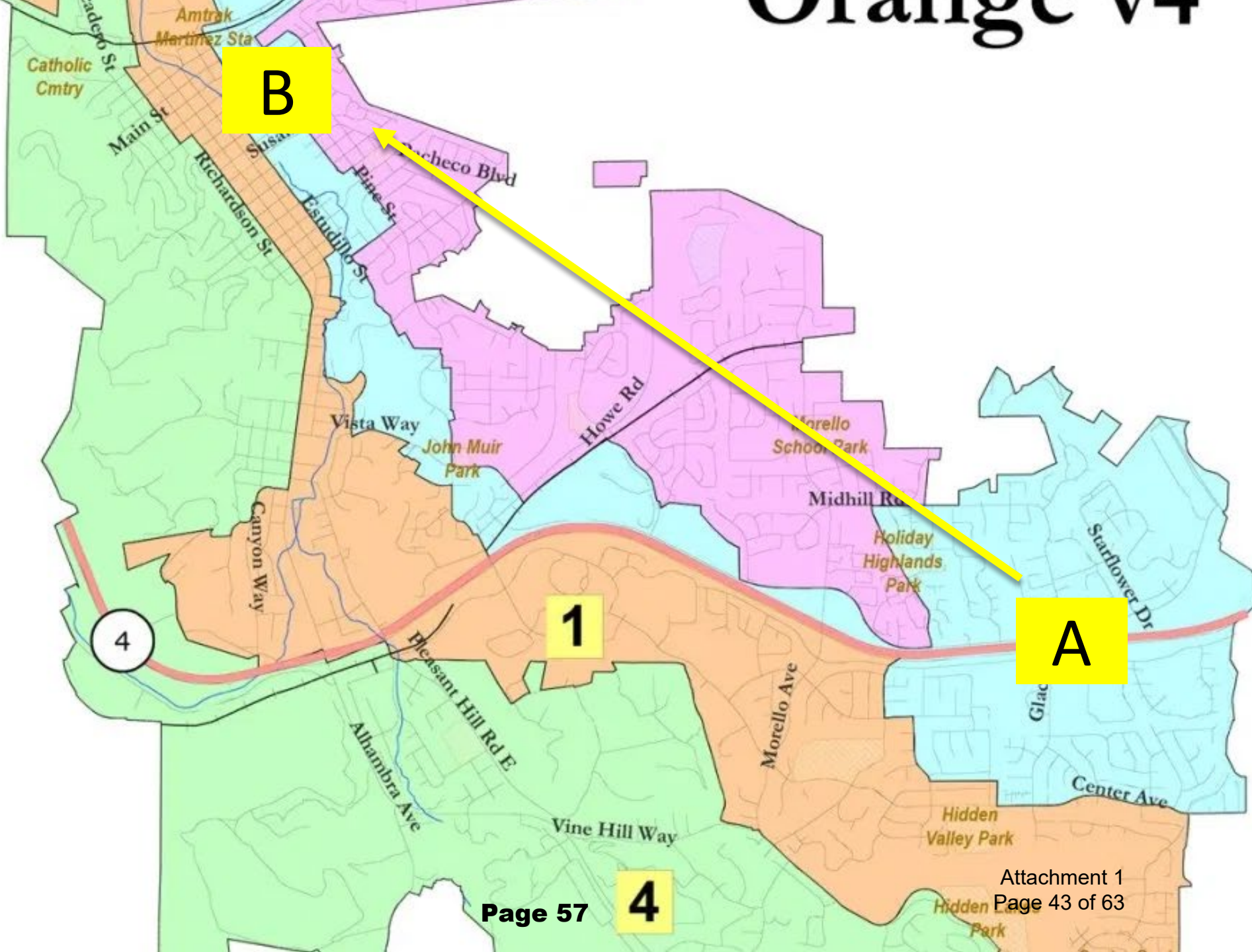


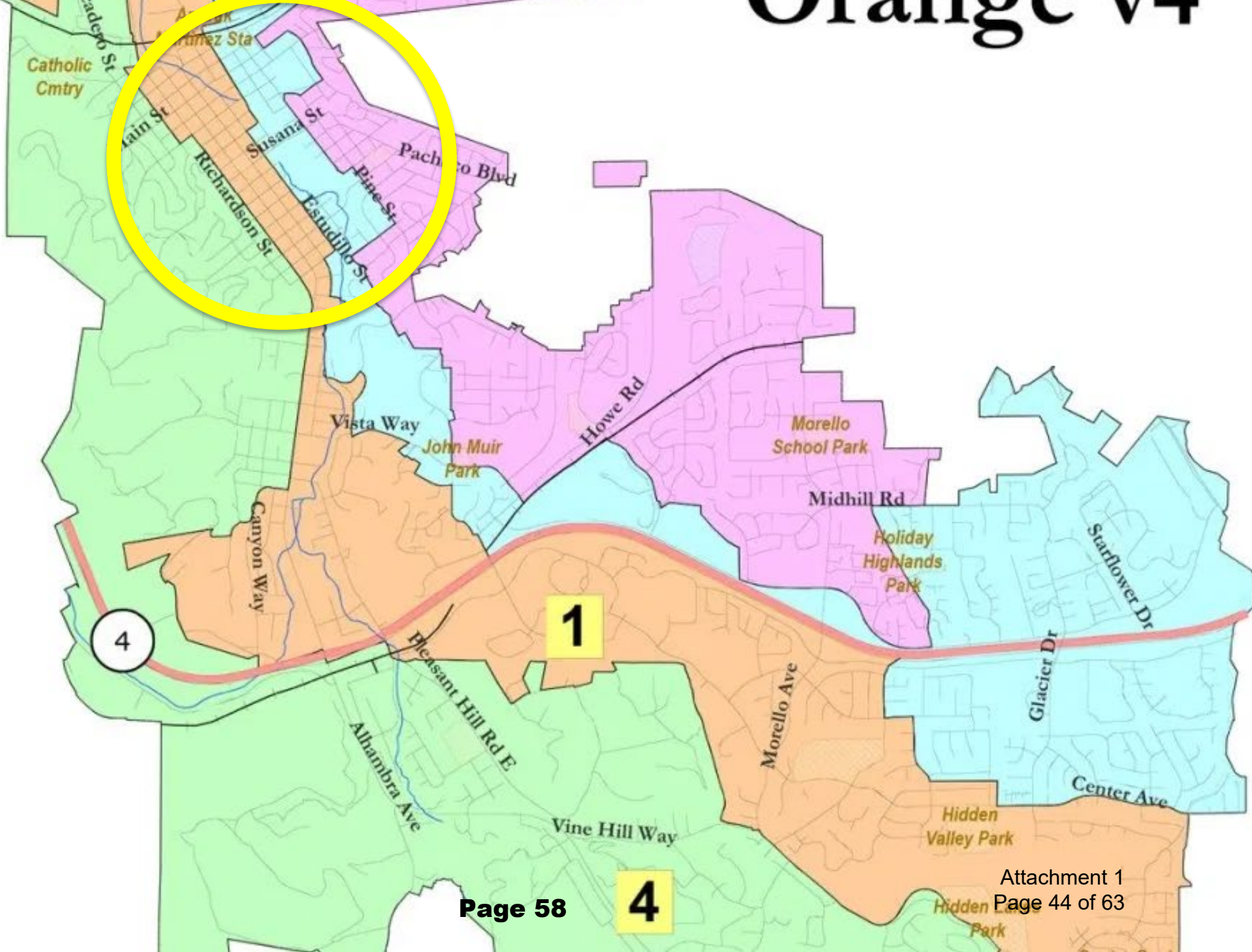
Compactness

Determining what is “compact”

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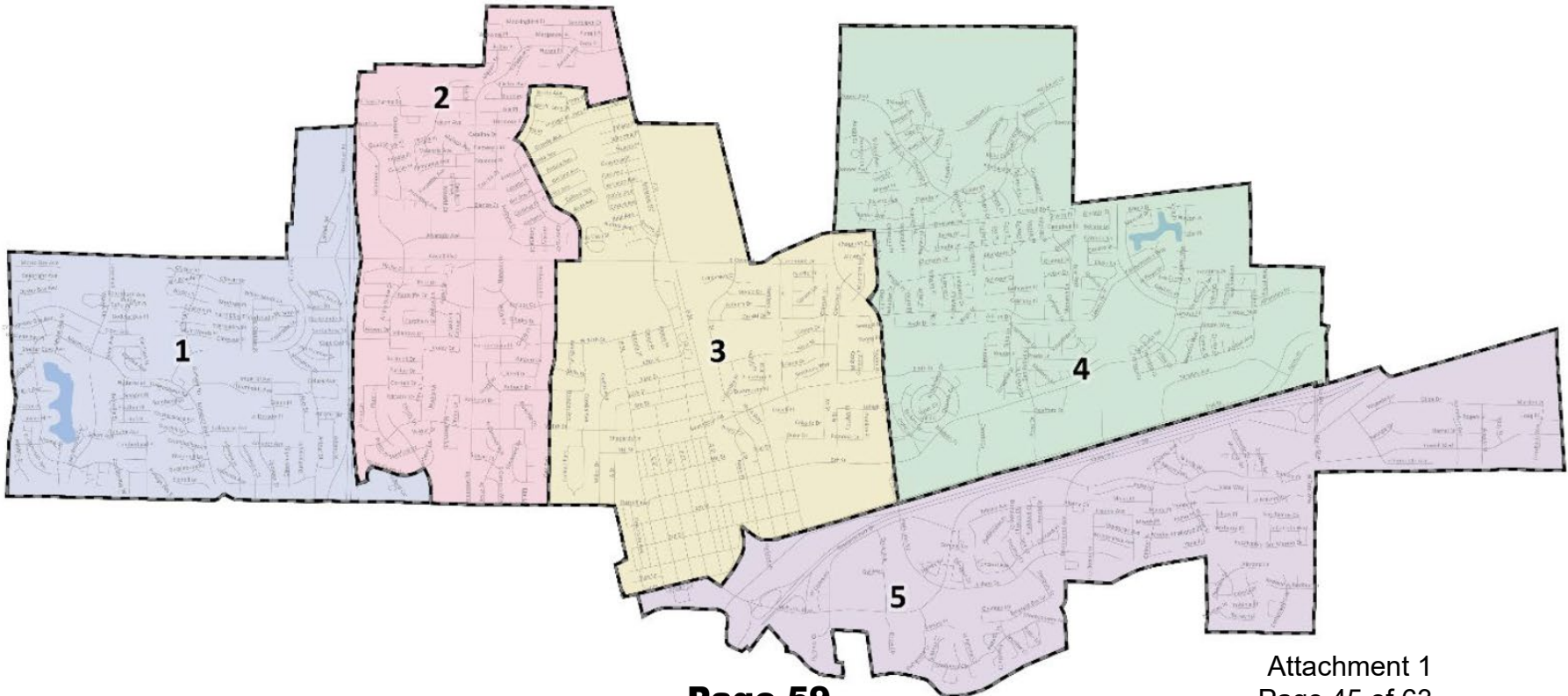


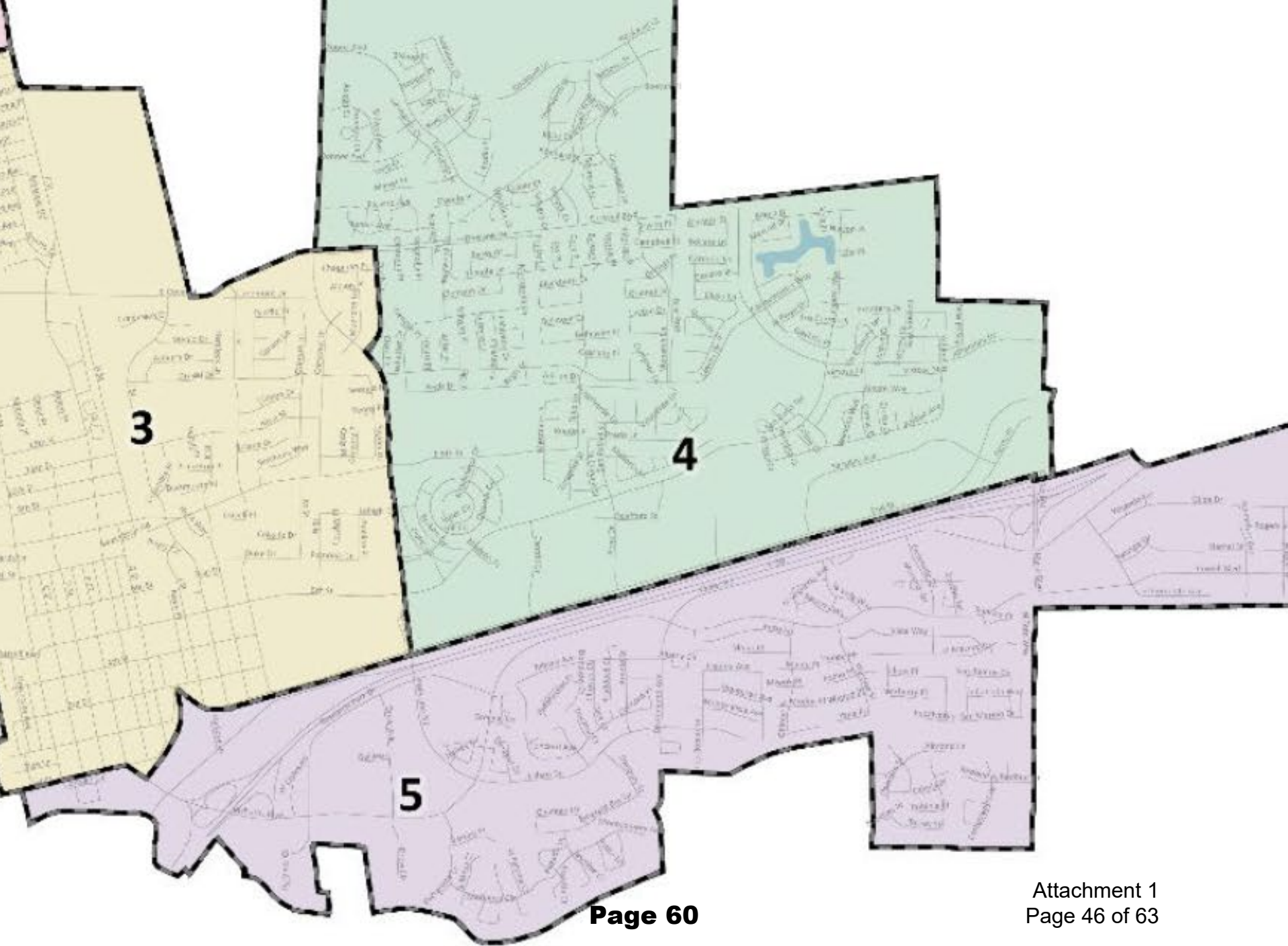




Compactness

Determining what is “compact”

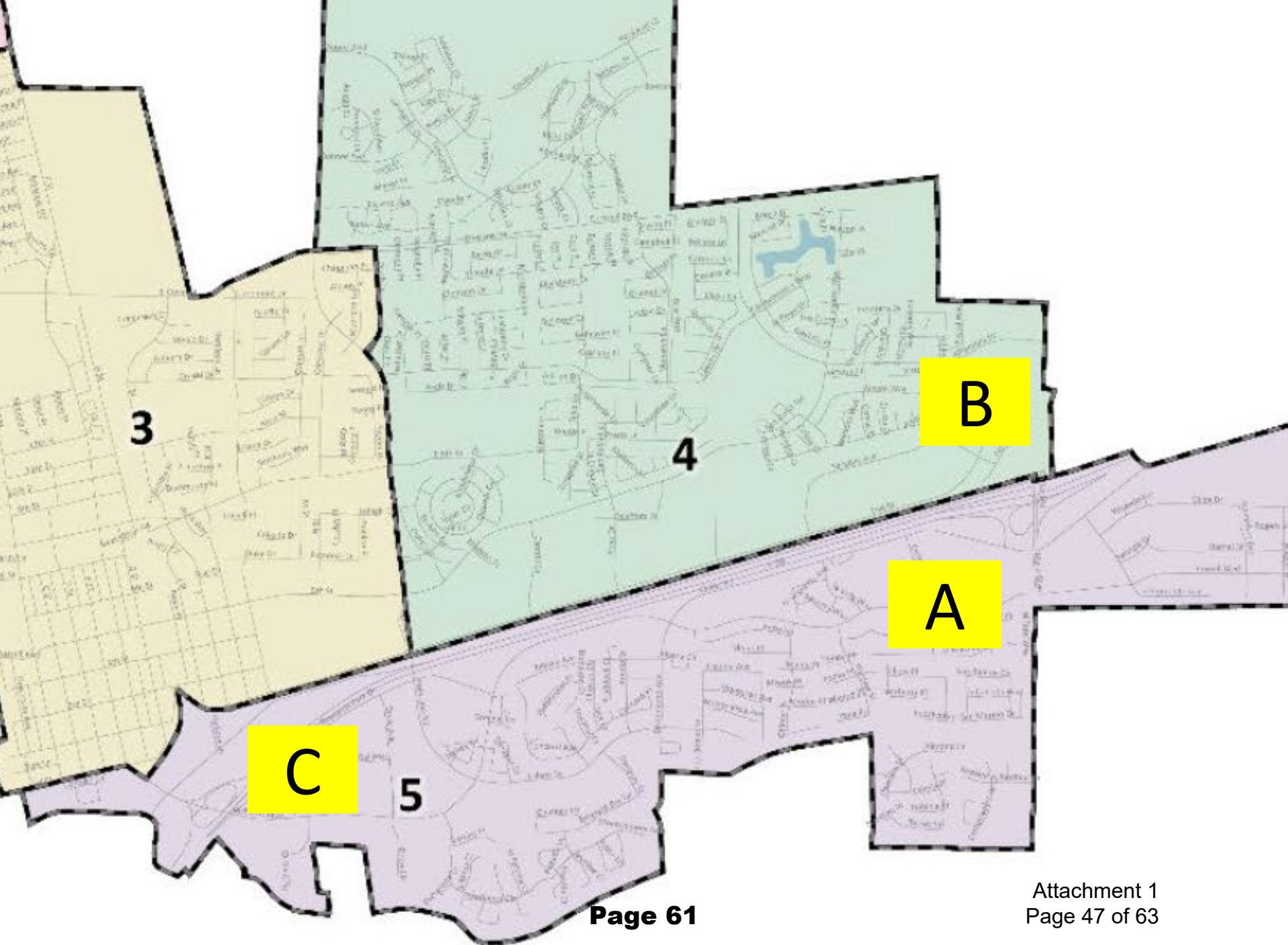




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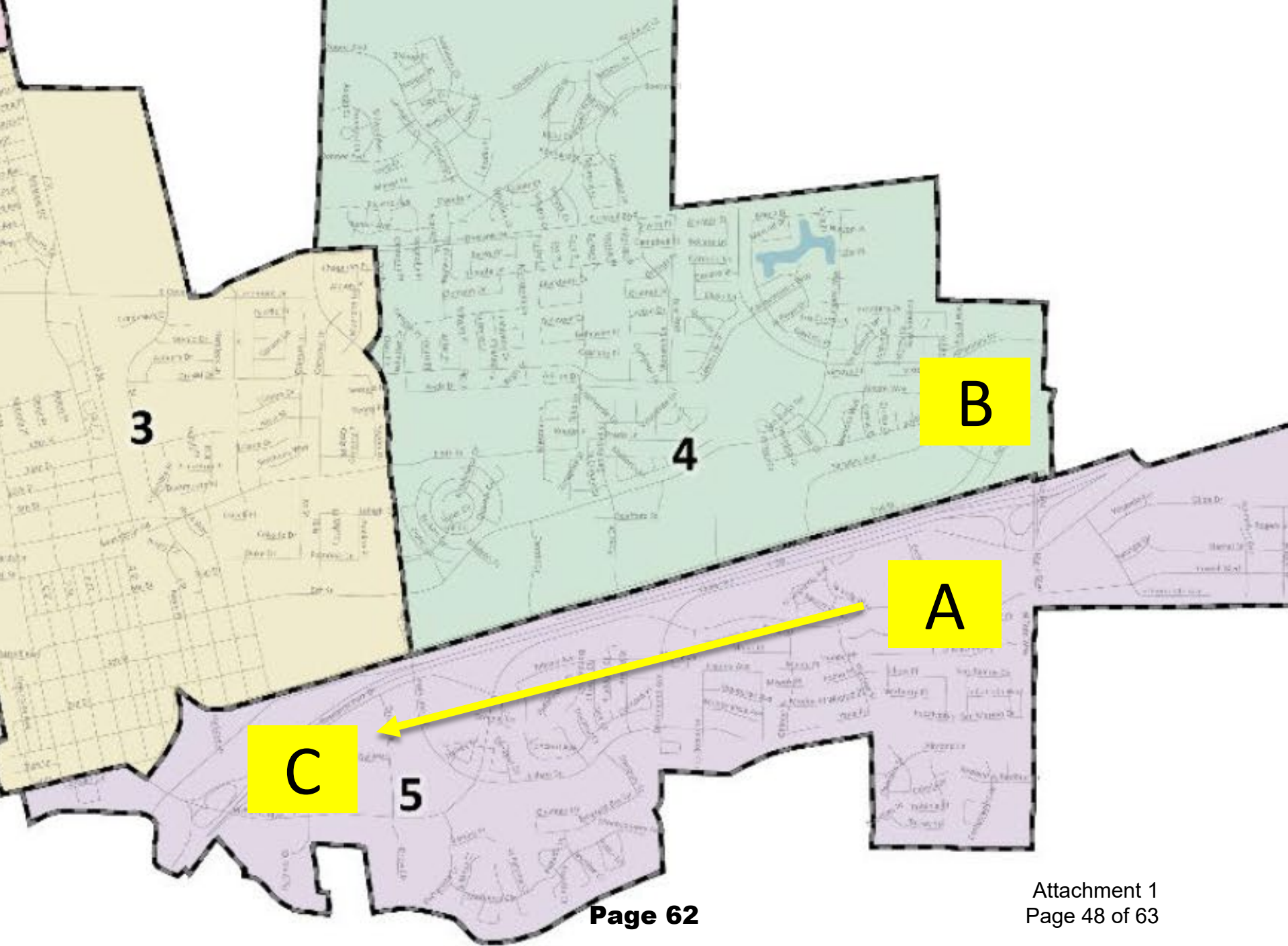
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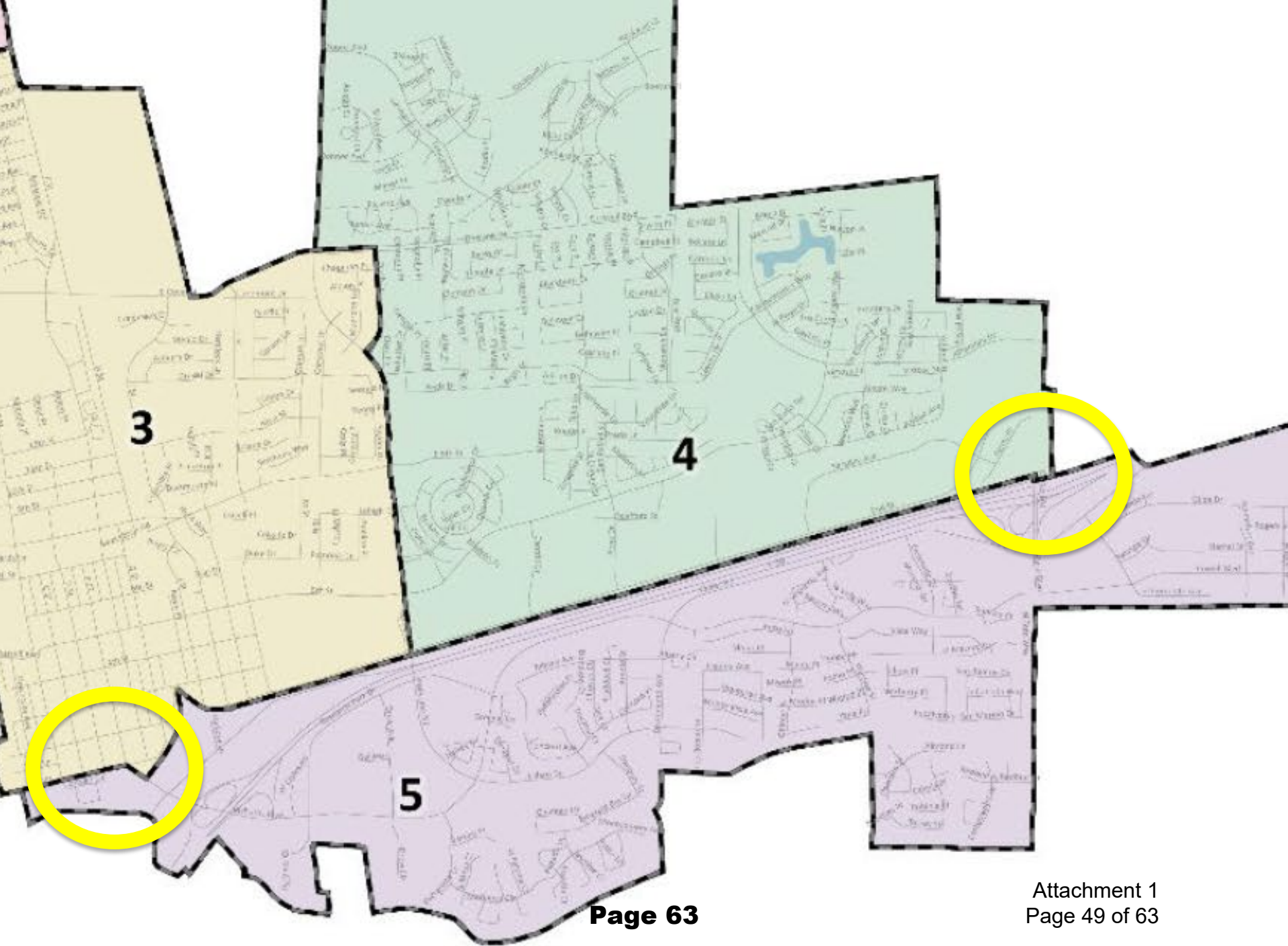
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A

C

5





3

4

5

Overview

This presentation will cover a range of topics and expand on the technical aspects of the redistricting process.

- What is Redistricting?
- State and Federal Voting Rights Act
- What is Gerrymandering
- Traditional Redistricting Principles
- **Census Data**

The mechanics of Redistricting

Census Data

Census Files come in two parts:

Geography – the underlying framework of the data

Data – the counts of population and demographics

And they can convey different information:

Point in Time – Decennial Census

Multi-year Averages – Trends/Estimates

The mechanics of Redistricting

Census Data

The Geography is called the
TIGER Files

- *Topologically Integrated Geographic
Encoding and Referencing*

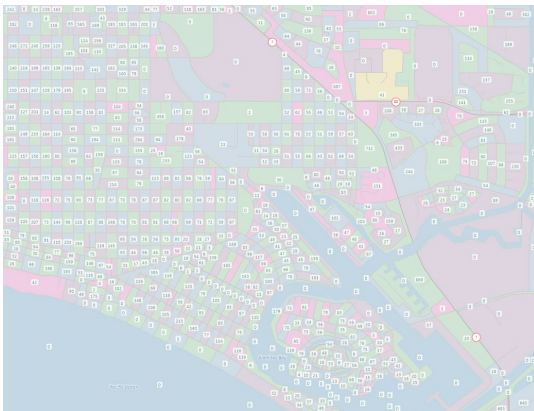
- *Nested geographic units*

- *Block*
- *Block Group*
- *Tract*

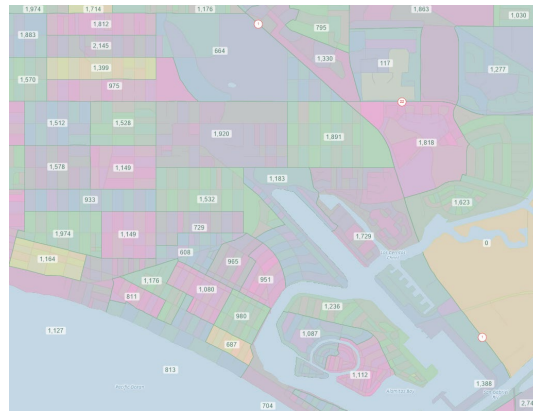


The mechanics of Redistricting

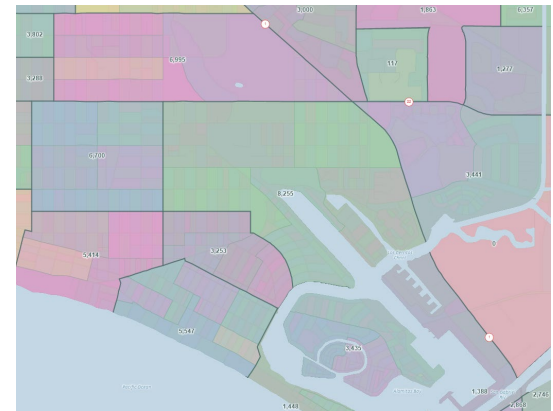
Census Data



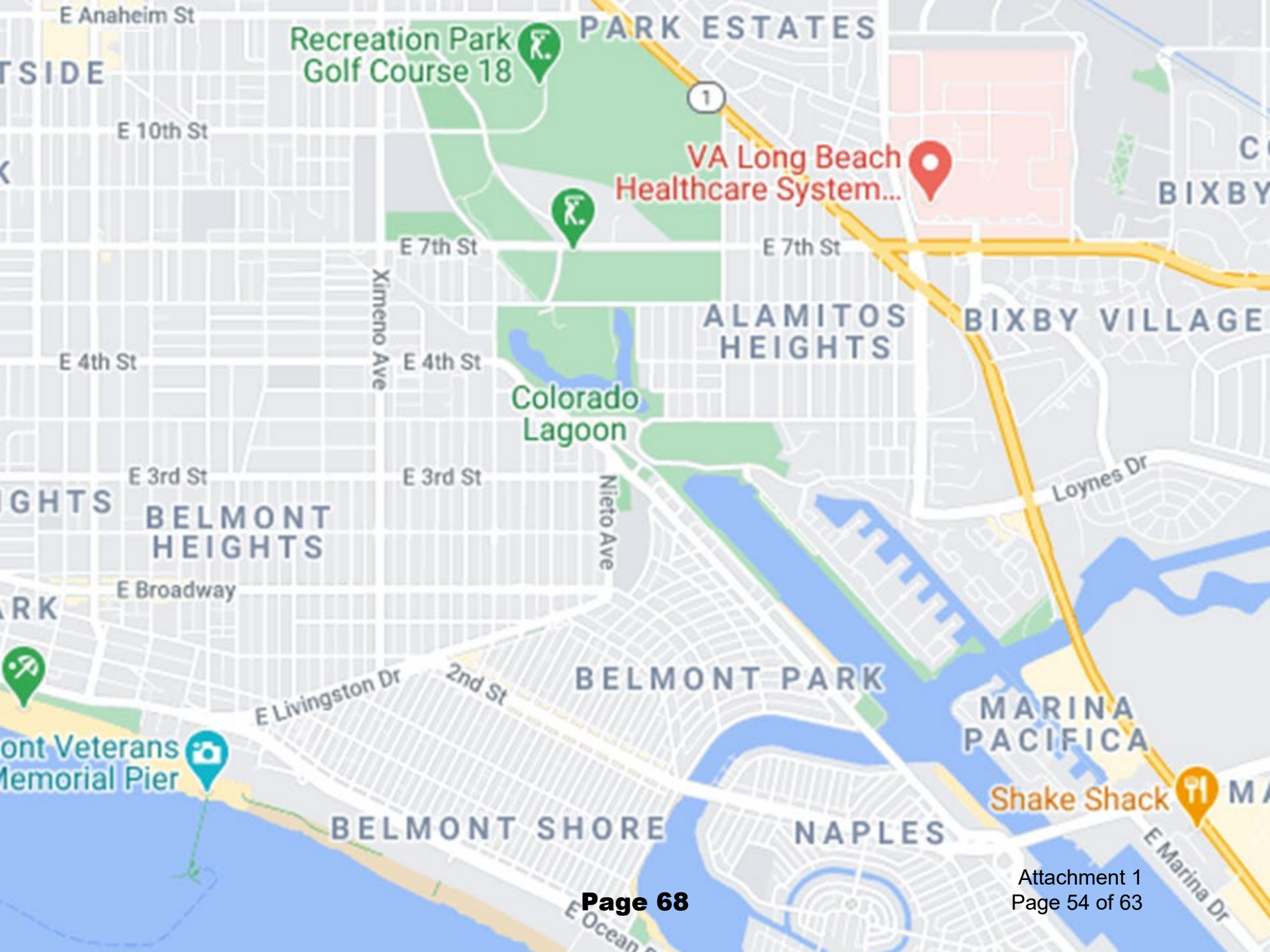
Census Blocks

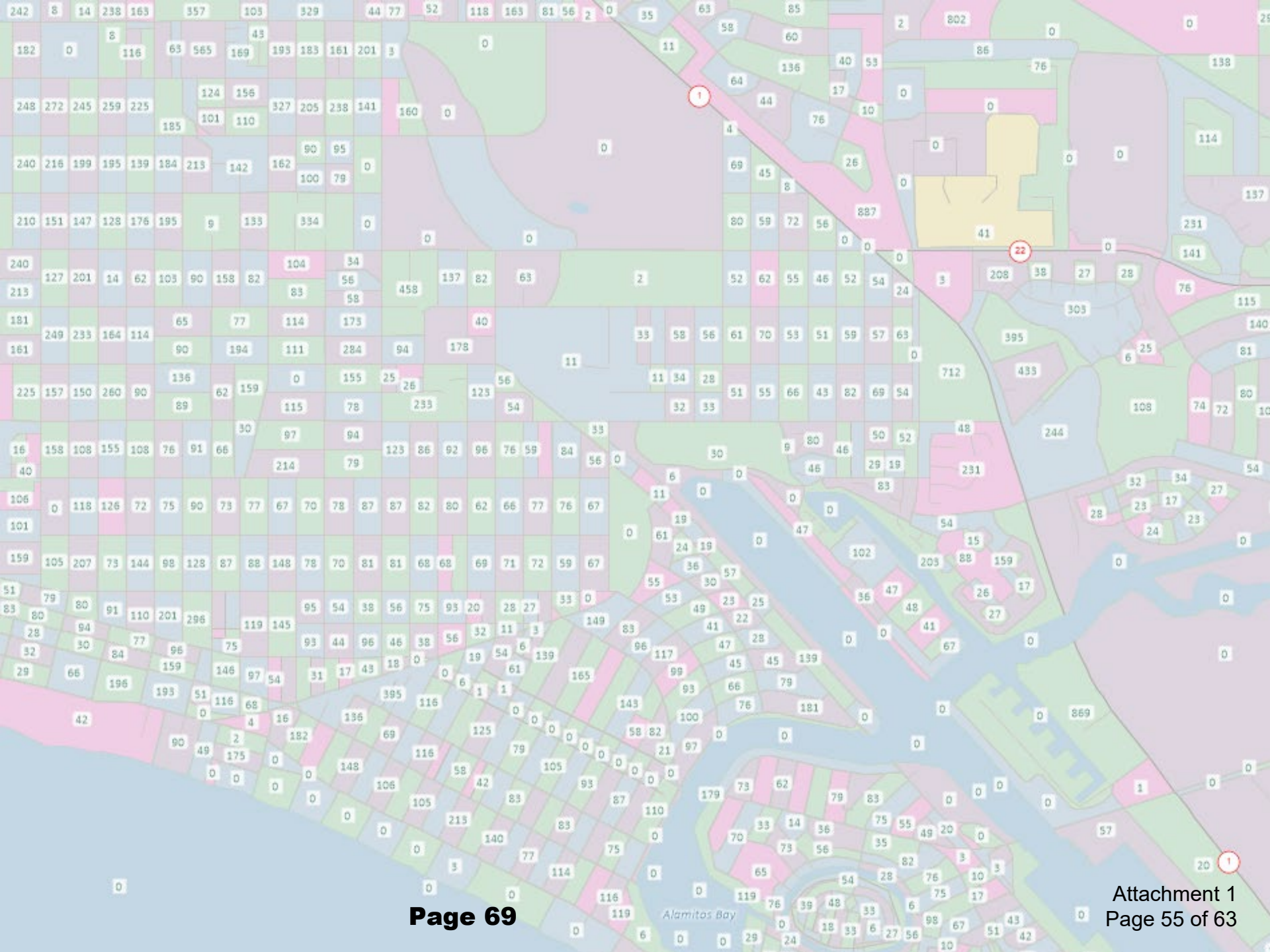


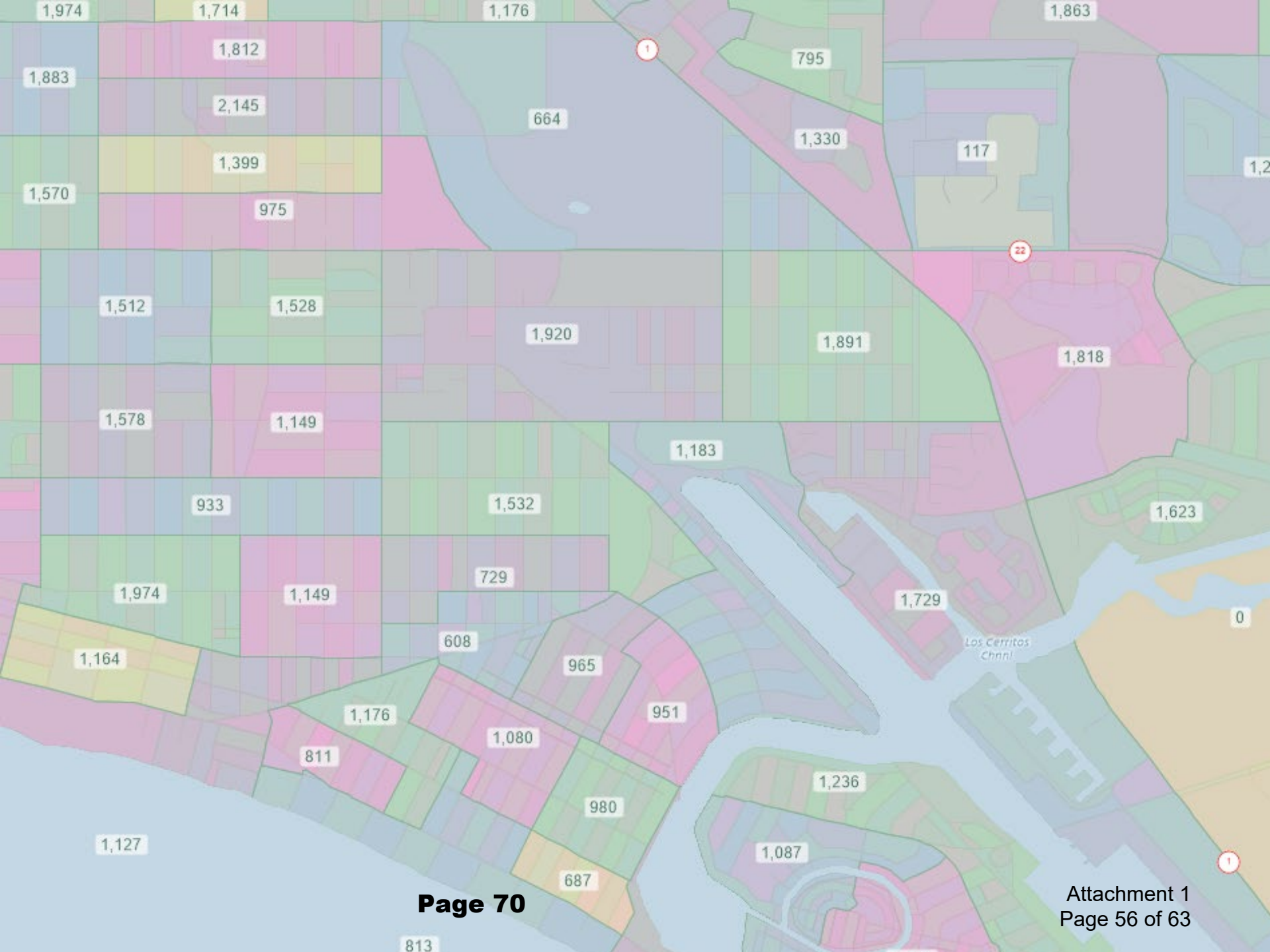
Census Block Groups



Census Tracts







1,974

1,714

1,176

1,863

1,883

1,812

2,145

664

795

1,570

1,399

975

1,330

117

1,2

1,512

1,528

1,920

1,891

1,818

1,578

1,149

1,183

933

1,532

1,623

1,974

1,149

729

1,729

0

1,164

608

965

Los Cerritos Chnnl

1,176

1,080

951

811

980

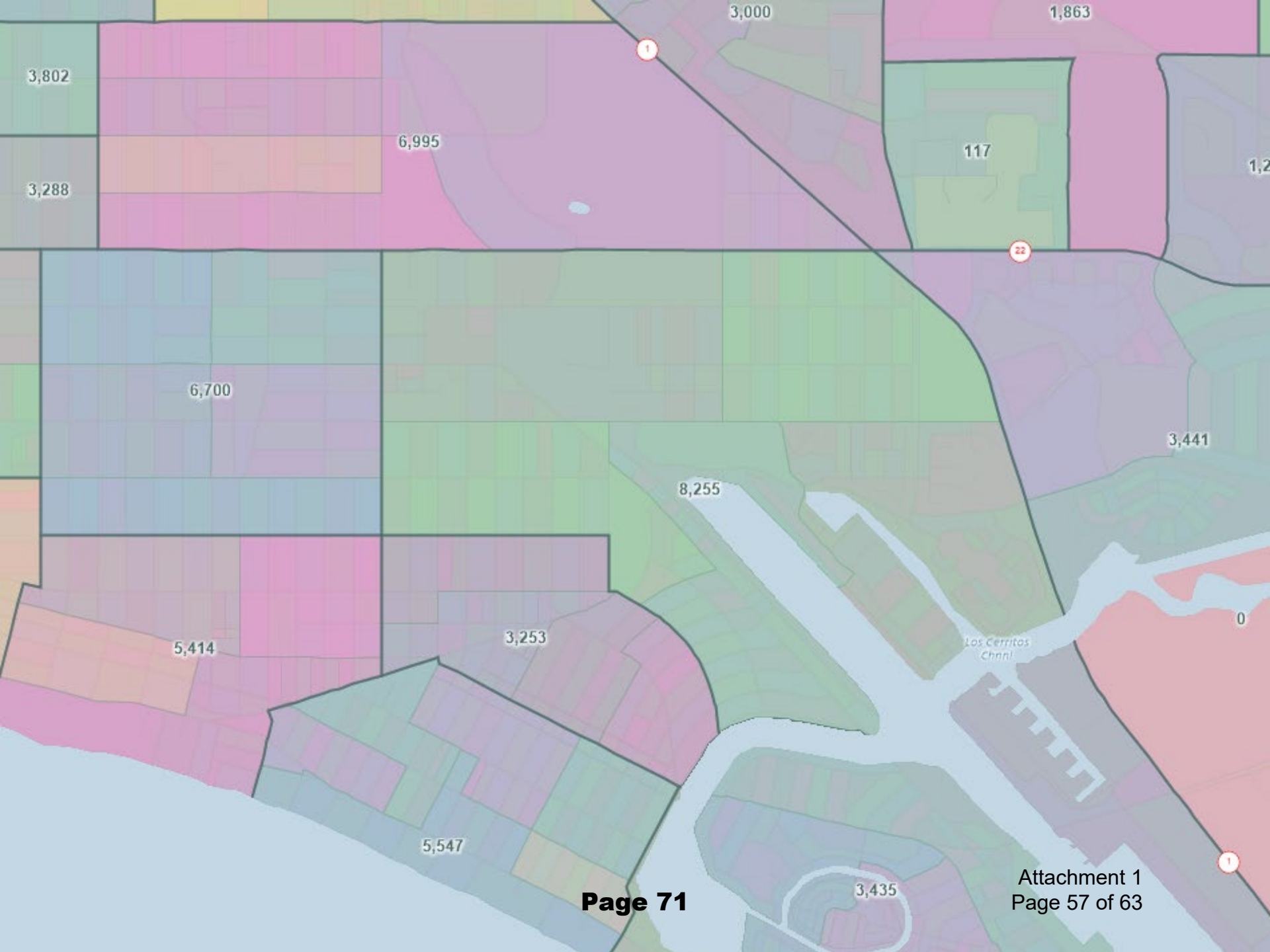
1,236

1,127

687

1,087

813



The mechanics of Redistricting

Census Data

Two different datasets most commonly used in redistricting:

- PL 94-171 - the Decennial Census File
 - Census Block Geography
 - Total Population Counts for April 1, 2020, used to determine the size of each district.
 - Required to be released before April 1, 2021, but delayed until September 30th, with a “legacy” dataset by August 16th

The mechanics of Redistricting

Census Data

Two different datasets most commonly used in redistricting:

- American Community Survey (ACS)
 - Census Block Group and Census Tract or larger geographies
 - Results in estimated data that provides more context to the Census results with demographic and socioeconomic info.
 - Provides Citizen Voting Age Population (CVAP)

Redistricting Advisory Committee

Timeline for Upcoming Meetings

June 23 rd	Redistricting 101 Presentation
July 14 th	Legal Training – Brown Act, Robert’s Rules, Governance
Aug. 18 th	Outreach Meeting Process & Online Map Training
Sept. 15 th	Public Meeting on the 2020 Census
Sept. 22 nd	Outreach Meeting #1 – District 7
Sept. 29 th	Outreach Meeting #2 – District 6
Oct. 6 th	Outreach Meeting #3 – District 5

Redistricting Advisory Committee

Timeline for Upcoming Meetings

Oct. 13 th	Outreach Meeting #4 – District 4
Oct. 20 th	Outreach Meeting #5 – District 3
Oct. 27 th	Outreach meeting #6 – District 2
Nov. 3 rd	Outreach meeting #7 – District 1
Dec. 1 st	RAC Meeting to Review the Initial Draft Maps
Jan. 12 th	RAC meeting to review and select final map(s)
Feb. 9 th	Valley Water Board Meeting to Discuss Maps

Redistricting Advisory Committee

Timeline for Upcoming Meetings

- Feb. 22nd Valley Water Board Meeting to Review and Approve Maps
- Mar. 9th Valley Water Board Meeting to Vote on Final Maps
(if necessary)



REDISTRICTING PARTNERS

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SANTA CLARA VALLEY WATER DISTRICT



REDISTRICTING MANUAL

May 3, 2021

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What is Redistricting?

At its most basic level, redistricting is the adjustment of election boundaries to create fairer representation, equalize voting strength, and create equitable distribution of political power. The task is conducted for any state, county, city, or other local government with districted elections. In the United States, this commonly occurs once a decade, after the release of new population numbers from the U.S. Census.

Redistricting is not just a quantitative exercise that can be solved by a computer, mathematical computation, or algorithm, although these are tools that can be helpful in presenting options or creating or evaluating redistricting plans.

Within redistricting, there are laws, best practices and norms that drive the process. These are continually changing, with the last decade seeing some of the most dramatic retooling of our processes with a series of legal rulings, new state and local laws, and a shift in public attitudes.

The effect has been to put more power in the hands of the public – either through specific laws mandating more community engagement, the increased availability of mapping tools that a lay-person can utilize, a media that has become more adept at covering these issues, and the strong public belief that redistricting is not a task to be left to backrooms and political deal-making.

This manual goes through many of the elements of the redistricting process, with a focus on local redistricting. As the law and practice of redistricting change, some of the descriptions and definitions of terms may need updating.

Public Opinions on Local Redistricting

Over the past two decades the public has been increasingly pushing for redistricting reform and transparency. California’s voters passed Propositions 11 and 20 in order to shift redistricting away from the Legislature to an independent bipartisan commission. This viewpoint that redistricting should no longer be controlled by politicians has only increased since the passage of these statewide ballot measures. In a recent poll conducted for Open California, 97% of California voters agree with the statement “local government should be required to have transparent, open redistricting.”

Looking more closely, 96% of the public supports the new state requirement that all proposed redistricting maps for local governments be made publicly available before being voted on, 91% believe local governments should have five or more hearings, 90% believe lines should not be drawn for incumbent protection, and 97% believe lines should not be drawn to favor political parties.

Federal Voting Rights Act

One key criterion that must be followed in all redistricting is the Federal Voting Rights Act of 1965.

The Act was passed on the heels of the Civil Rights Act of 1964 and sought to remedy racial disenfranchisement in southern states – specifically Jim Crow laws such as literacy tests, poll taxes, and other restrictions that were unconstitutional, but hard for the Department of Justice to block without specific legislation.

The primary impacts on redistricting are found in **Section 2**, which requires majority-minority districts as a remedy for **vote dilution** when a state, county, city, or other agency has racially polarized voting and the sufficient concentration of that protected class to create a district where the minority population can effectively use their voting power to elect a candidate of choice, and **Section 5**, which requires covered states and local governments to receive **pre-clearance** on redistricting plans.¹

Section 2

In 1982, Congress responded to a Supreme Court case² which held that Section 2 prohibited only “purposeful” discrimination by passing a ban on any voting practice that had a discriminatory effect, irrespective of whether the practice was enacted or operated for a discriminatory purpose. This amendment defined a method for determining violations of Section 2 utilizing the following factors:

- A history of official voting-related discrimination in the state or political subdivision;
- The extent to which voting in the elections of the state or political subdivision is racially polarized;
- The extent to which the state or political subdivision has used voting practices or procedures that tend to enhance the opportunity for discrimination against the minority group, such as unusually large election districts, majority-vote requirements, or prohibitions against **bullet voting**;
- The exclusion of members of the minority group from candidate slating processes;
- The extent to which minority group members bear the effects of discrimination in areas such as education, employment, and health, which hinder their ability to participate effectively in the political process;
- The use of overt or subtle racial appeals in political campaigns; and,
- The extent to which members of the minority group have been elected to public office in the jurisdiction.

Shortly after these amendments, a 1986 Supreme Court decision³ further shaped how the VRA interacts with redistricting by establishing rules for when race and ethnicity can take a greater role in the process of drawing districts.

¹ Preclearance was invalidated recently in *Shelby v. Holder* (2013)

² *Mobile v. Bolden* (1980)

³ *Thornburg v. Gingles* (1986)

The eponymous “Gingles factors” are three preconditions that a minority group must meet to establish a violation of Section 2 of the Voting Rights Act. These preconditions are the following:

- 1) A minority group must be sufficiently large and geographically compact to comprise a majority of the district;
- 2) The minority group must be politically cohesive (it must demonstrate a pattern of voting for the same candidates, also known as “bloc voting”); and,
- 3) A majority of voters vote sufficiently as a bloc usually to defeat the minority group’s preferred candidate.

This set of factors helps an agency that is undergoing redistricting know when Section 2 is operative regarding a protected class in their community, but there are significant additional factors that may be considered.

These factors could also be extended beyond race and applied to other protected classes, such as religious affiliation, gender and sexual orientation, and national origin in cases where that population is geographically defined and can be protected through the redistricting process.

Agencies under Section 2 requirements must still draw majority minority districts that are compact and contiguous, and they must be drawn in a way that is improving their ability to affect the outcome of an election. If a majority minority district is drawn at just 50%, that may not be deemed an **effective minority district** based on registration and voting patterns of the effected minority group.

Agencies may be required to look at options to increase the percentage of the minority population or even look at the election cycle in which that district would be coming up for election in order to place the election for that majority minority district within an election cycle in which that minority group shows historic higher turnout.

One outstanding question in the implementation of Section 2 is if it requires **coalition majority minority districts**, which can exist when two separate protected classes act as one politically cohesive, bloc vote and are subject to bloc voting against their interests. Courts have split on this question, although the majority of decisions have come down on the side of preferring coalition districts when they can be drawn, but not as a replacement for traditional majority minority districts.

Crossover districts in which the minority population can be drawn in a district with a similarly-minded majority group can have the impact of allowing that minority community to more effectively elect a candidate of choice, but this is not a requirement of Section 2 of the Voting Rights Act.

Section 5

The Voting Rights Act covers several elements of election protections for minority communities, but the most powerful tool in its arsenal is the preclearance requirements under Section 5. These requirements, imposed on jurisdictions based on past minority voting patterns, require the state or local jurisdiction to delay implementation of any election law, such as a redistricting, but also polling locations, ballot design, voter purges, voter ID and other laws, until cleared by the Federal Department of Justice.

There were five counties in California that operated under Section 5 during the 2011 redistricting: Kings, Kern, Monterey, Merced and Yuba. Following the last decennial redistricting, Merced earned a **bailout** from the Department of Justice in 2013 allowing them to be taken off the Section 5 list.

During the statewide redistricting in 2011, Section 5 served to freeze much of the existing legislative and congressional districts in place. A primary goal of the Citizens Redistricting Commission was to not cause **retrogression** in the minority populations of any district that touched these Section 5 counties. This resulted in fewer Latino seats in one area, in order to maintain the share of Latino population in districts that overlapped Section 5 counties.

A 2013 Supreme Court ruling⁴ invalidated the VRA's Section 4, which included the provisions that created the coverage formulas for what states and counties would be required to comply with preclearance requirements in Section 5. These coverage formulas were designed more than 50 years ago and are largely based on voting patterns in the 1968, 1970 and 1972 elections – a fact that the court found resulted in a policy that did not have any relationship to modern-day voting rights concerns.

While Section 5 is now inoperative, there are legislative actions being taken to reestablish the coverage formula provisions of Section 4 and revive the full force of the act, potentially in time for the 2021 redistricting.

Legislative action to restore Section 5 is not without precedent. There has been a history of legal challenges to this section of the VRA and a number of course-corrections by the U.S. Congress to explicitly expand the law and reestablish the powers within that section. In 2006, Congress passed changes to respond to one legal decision⁵ that interpreted Section 5 as only prohibiting retrogressive discriminatory purposes, rather than any discriminatory purpose, and another legal ruling⁶ that found this section of the act only applied to redistricting outcomes where there was an inability for a minority group to elect their preferred candidate.

⁴ Shelby v. Holder (2013)

⁵ Reno v. Bossier Parish School Board (2000)

⁶ Georgia v. Ashcroft (2003)

IMPORTANT VRA RULINGS FOR REDISTRICTING

There are dozens of important VRA decisions. These are some of the most critical:

Thornburg v. Gingles
Created the Majority-Minority standard under Section 2.

Baker v. Carr
Finding: Federal courts have the jurisdiction to cover state legislative redistricting plans.

Reynolds v. Sims
Finding: Decennial redistricting is required for legislative districts and new boundaries should achieve population equality.

Gaffney v. Cummings
Established the 10% deviation standard.

Karcher v. Daggett
Congressional districts must be equal in population – functionally no more than a 1-person deviation.

Wesberry v Sanders
Congressional districts must be approximately equal in population.

The Traditional Criteria

No matter where redistricting is being done, there are a set of traditional criteria that are used. Each has its own legal basis, and states or agencies may use different definitions for achieving or measuring each, but they are key universal elements of the process in both state and local redistricting.

Equal Population

Districts are redrawn primarily to equalize population. There are two subparts to this idea of equality: representation and voting power.

Equal Representation – In practical terms, this speaks to how effective any resident can be at advocating for themselves or being represented within a jurisdiction.

Imagine a town with 150,000 residents, and just two districts. If one district has 10,000 residents and the other has 140,000, a complaint by the person in the smaller district would represent 1/10,000 of that representative's constituents. In the larger district, the same complaint would be only 1/140,000 of the representative's constituents. In the second district, it would take 14-times the residents to have the same voice as just one resident in the smaller district.

Equal Voting Power – This is the “one-person-one-vote” principle, and effectively measures the equal ability to elect a candidate. In the fictional town above, there might be 100,000 voters. If there are 8,000 in one district and 92,000 in the other, then the voting power of the resident in the smaller district would be 11.5-times greater than that of a voter in the larger district.

These criteria can sometimes be in conflict because districts with equal populations do not always have equal numbers of voters, or equal turnout of their registered population. One district may have more residents under 18 or more non-citizens, thereby creating an imbalance in the eligible voting age populations.

This can be exacerbated when districts have differing rates of young people, renters, or other socioeconomic groups with lower registration or voting performance. There are many examples of districts that are equally sized, yet have massive differences in the number of voters. In California, all congressional districts are drawn nearly perfectly equal, however in the 2020 General Election, the 4th Congressional District had turnout of 455,000 voters, while the 21st Congressional District had only 175,000.

There has been movement to try to use voter registration, eligible voters, or other datasets for determining population because of this friction between the two concepts, but the latest Supreme Court decision on this issue⁷ reinforced the use of total population from the decennial census. However, it did not absolutely close the door to the use of other datasets, making this something that will likely continue to be litigated.

Due to the delay in the 2020 Census release, there is some discussion on using the 2015-2019 American Community Survey's projected population to begin drawing district lines, with the 2020 Census data to balance the final district lines submitted to County Registrars. This, however, is unlikely to be allowed for

⁷ Evenwel v. Abbott, 136 S. Ct. 1120 (2016)

cities and counties doing redistricting under the Fair Maps Act as the law requires use of a final dataset provided by the state, after reallocation of the state prison population.

Even after agreeing on what dataset to use, and who to count, quantifying the equality of population is another element which can be done with different methodologies based on state law and best practices.

The **deviation** of a district is a measure of how equally sized it is to the ideal population of perfectly divided election districts. If a jurisdiction has 100,000 residents, the ideal population of each district is 20,000. If District A, in the example below, is at a population of 21,000, that district would have an **absolute deviation** of 1,000, and a **percentage deviation** of 1,000/20,000 or +5%.

District	Population	Deviation	Percentage Deviation
A	21,000	1,000	5%
B	20,200	200	1%
C	19,800	-200	-1%
D	19,250	-750	-4%
E	19,750	-250	-1%

Individual district deviations must be calculated to determine the total **plan deviation**, which can be done in one of three ways:

- *Overall Range*: The sum of all the deviations. In the five-district plan above the percentage deviations are 5%/1%/-1%/-4%/-1%, the sum of the absolute values of all those percentage deviations is 5+1+1+4+1=12, which would be the overall range.
- *Mean Deviation*: The Overall Range, divided by the number of districts. In the scenario above where there are five seats and an overall range of 12, the mean deviation would be 12/5 or 2.4%.
- *Deviation Range*: The sum of the absolute values of the largest and smallest district. In the scenario above the smallest district is -4%, the largest is +5%, so the range is |-4%| + |5%| for a deviation range of 9%.

In California, we utilize the **deviation range** to quantify the equal population of a districting plan.

The acceptable total plan deviation range can vary based on federal case law, state laws, local regulation, or a decision by a board or commission conducting the redistricting. The most common standards are:

- One Person – congressional plans are generally drawn to a one-person standard. This can appear to be an arbitrary standard as line-drawers hunt-and-peck around a redistricting plan to reach that nearly perfect calculation in each district.
- 10% - a relatively wide deviation standard set for local and state government redistricting. This is the default if there is no narrower state or local requirement.

- Other ranges from 2.5% to 1% are commonly used as acceptable ranges in a redistricting plan, pointing to precedents set by judicial redistricting or utilizing statutes, ordinances, or a decision by the entity conducting the redistricting.

One fallacy in redistricting is that a narrower deviation is always better. This is an easy trap to get caught in because a single numeric value is something that can be easily understood by the public. However, a decision to have a specific deviation requirement before drawing lines could inadvertently harm other parts of a plan by prioritizing an arbitrary numeric goal ahead of other more important criteria.

As an example, imagine a plan that has a 1.05% deviation, and in order to move under 1% you had to split a neighborhood – clearly, the utility in keeping voters in that block with their neighbors would be higher than the utility of an agency being able to say their plan was under 1% deviation.

Like many criteria, total plan deviation is one which should be considered among a family of other sometimes competing criteria.

Compactness

Compactness is the principle that a district should be drawn in a way that minimizes the distortions of a district, making it more circular or square, with fewer strange shapes, protrusions, indentations or other oddities.

One of the most popular mathematical calculations of compactness is Polsby-Popper, which is a measurement of the ratio of the length of the perimeter of the shape of the district, compared to a perfect circle of the same size.

There are dozens of different metrics for compactness. It is a bit of a niche piece of redistricting academia. However, one failing of compactness scores is that they are not absolute – they are relative to other options for districts drawn in the same area. Scores can be heavily impacted by the shape of the agency itself, or other competing criteria, such as the need to draw districts that meet federal Voting Rights Act requirements, maintain other governmental boundaries, or follow contours of existing natural structures like mountains and rivers.



in Polsby-Popper the length of all the lines, including twists and bends of the district, is compared to the size of a circle with the same length circumference.

Another approach to compactness is to move away from criticizing the roughness and spikes of external boundaries, but instead looking for the dispersion of population within a district. How does a district, as an example, bridge together nearby populations versus one that stretches around a geography to connect two less-connected populations. An election district boundary could, under this metric, be considered mathematically compact because of its smooth edges, but upon inspection be found to be non-compact because it is twisting in on itself, being distorted like an amoeba around some nearby populations to capture something else further away.

In California, there is a history of moving away from the pure mathematical demonstrations of compactness. The Report and Recommendations of Special Masters on Reapportionment in 1992 described it this way:

“A district would not be sufficiently compact if it was so spread out that there was no sense of community, that is, if its members and its representatives could not effectively and efficiently stay in touch with each other; or if it was so convoluted that there was no sense of community, that is, if its members and its representative could not easily tell who actually lived in the district.”

In recent legislation, the state has officially eschewed the mathematical calculations for compactness, instead going with a qualitative measure which states that districts “shall be drawn to encourage geographical compactness in a manner that nearby areas of population are not bypassed in favor of more distant populations.”

Contiguity

This can appear to be the simplest criteria. Districts should encompass an area that is comprised of contiguous geographic areas – without any unconnected pieces. Anyone can see from a map if an area is one contiguous unit, or it has portions that are not touching.

This criterion seems less clear when one realizes that many cities and other local governments are non-contiguous. Many cities have annexed property that are separated by areas of unincorporated county. Agencies such as water districts often have dozens of areas which are not contiguous to their primary boundaries but are within their district because they provide services to them. In some cases, this can be one or two city streets, miles from the core of the agency.

Other states or agencies have islands that are physically disconnected and are joined only by miles of ocean, or geographic barriers where two populations are connected as seen from a satellite photo, but divided by an impassable barrier, such as a mountain range or major waterway.

This is something we at Redistricting Partners have come to describe as **functional contiguity**, a term that encapsulates two concepts to describe how a geographic area is used in order to determine its ability to be considered one unit for the purposes of redistricting.

Another term for one aspect of functional contiguity is **travel contiguous**, which means that you can travel from one side of the district to the other without having to leave the district. At least one redistricting program has a measure of travel contiguity that can be utilized as a plan metric.

Redistricting sometimes attempts to push the bounds of what is contiguous, and one example is treating two areas that are catty-corner from each other as a contiguous unit. The result is a map where the district has two points that touch and create a boundary that is **point**

FUNCTIONAL CONTIGUITY

Catalina Island

Los Angeles County has an island with around 4,000 residents that is 20 miles off the coast. It is not contiguous and does not have a bridge connecting it to the mainland.

It is functionally contiguous to four ports in Dana Point, Newport, Long Beach, and San Pedro.

In redistricting, Catalina Island has always been drawn as contiguous with Long Beach.

South Davis

In Davis, California, the city is bisected by the Union Pacific Railroad tracks that connect commuters from the State Capitol to the Bay Area. Throughout the 2.5-mile span, there are only three ways to cross, one road at each end, and one footbridge at the mid-point.

For purposes of redistricting, it was considered functionally contiguous only on the eastern and western ends where one could drive from one side of the city to the other.

contiguous. State law does not allow this for cities or counties, stating “areas that meet only at the points of adjoining corners are not contiguous.”

One final contiguity term that has been utilized in some questionable plans is **string contiguous**, where two parts of a district are joined by unpopulated census blocks or split census blocks taking a connector like a freeway or a river to force a connection between two otherwise separate areas. This would not be justifiable unless the agency itself had this as a geographic feature or there was a necessity under the Voting Rights Act.

When is a Redistricting Plan a Gerrymander?

Gerrymandering is the act of manipulating the redistricting process to achieve political gain, at the expense of other groups or individuals.

The process was named after Governor Elbridge Gerry, a signor of the Declaration of independence, produced a map for state senate districts in Massachusetts that would reward his political allies. This map was parodied in a political cartoon as looking like a salamander, thus the “Gerry-mander.”

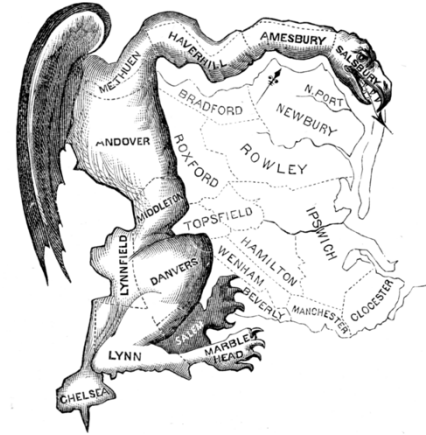
Historically, the gerrymandering process has been seen as a binary war between Democrats and Republicans. The original gerrymander was an attempt to maximize Republican districts, but Democrats have also taken advantage when they hold the power to draw lines.

Recent Supreme Court decisions⁸ have removed the legal process from being able to adjudicate this kind of gerrymandering, finding that such partisan claims are nonjusticiable. At the same time, states have increased policymaking on restrictions to partisan manipulation, either through rules imposed on lawmakers that have the power to draw their own lines, or by removing that power and transferring it to judges or independent bodies and commissions that conduct the redistricting. Current legislation in the House of Representatives would create a national mandate for nonpartisan redistricting commissions in all 50 states.⁹

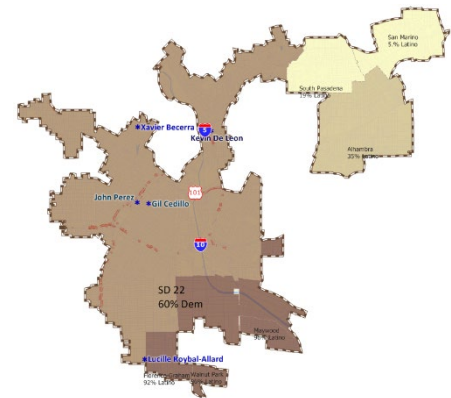
Even though the Gerrymander is seen as a relic of more than 200 years ago, the formation of the 20th Senate District in the 2001 redistricting plan bore a striking resemblance to the original Gerrymander, just 10 years before the first Citizens Redistricting Commission was charged with drawing California’s legislative boundaries. However, in the heart of heavily Democratic Los Angeles County this was not necessary to gain partisan advantage, but likely a result of other political intent.

Tools of Gerrymandering

The purpose of redistricting is to bring communities together, and allow them to be able to elect a candidate of their choice. But when drawing these lines, experts can manipulate the outcome of elections utilizing some tools that empower some communities at the expense of others, causing a gerrymander.



The Original Gerrymander – March 1812



California Senate District 20 (2001-2011)

⁸ Common Cause v. Rucho (2019) and Gil v. Whitford (2018)

⁹ House Resolution 1 - <https://www.congress.gov/116/bills/hr1/BILLS-116hr1pcs.pdf>

The primary tools in this are cracking and packing, essentially two sides of the gerrymandering coin. But there are additional methods of using the manipulation of districts to achieve political means.

Cracking – when a defined population is split into several districts to dilute their political power and deny them the opportunity to elect a candidate of their choice in any of the districts.

Packing – when a cracking cannot be used because a population is too large, it can instead be drawn in a way that gives the community one seat, but with as many members of that group as can be put into one district, and diluting any possibility that the remaining population can elect their preferred candidates in the remaining seats.

Stacking – taking a minority population and pushing them into one district with a concentration of majority population voters in a way to dilute their voting power.

Hijacking – drawing districts in a way to purposefully place two incumbents in the same district in order to deny one of them from being able to be reelected.

Kidnapping – drawing a member into a neighboring district or purposefully removing their political base.

The work of packing and cracking, and other manipulations of redistricting, have become easier as computing power has increased, and data on partisan performance, ethnicity, and other factors has become more detailed and readily available. At the same time, it has also become easier to identify gerrymandering by utilizing these same tools. For more on these methods of identifying these tools in action, see the section titled “Measuring a Gerrymander.”

Types of Gerrymanders

While gerrymandering was borne with one intention, the tools have been applied to many other purposes, spawning a number of different terms for different kinds of manipulations

Partisan Gerrymander – the most commonly thought of gerrymandering is one in which the line drawing process is used to bolster the prospects of one political party and dilute the voting strength of another. While this is the type of gerrymandering that policymakers and good government groups have made the most strides in abating, the courts have given this kind of gerrymandering a pass.¹⁰

Racial Gerrymander –gerrymandering by race, ethnicity and national origin is unconstitutional. This is where courts show the most willingness to intervene.

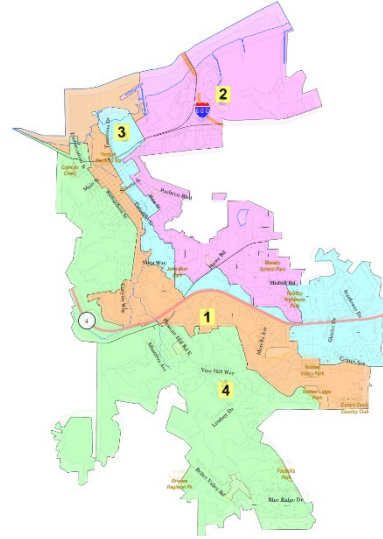
Many of the laws regarding redistricting have come out of post-reconstruction history in the South, where redistricting, among other election structures, were used to weaken the political power of Black voters. As one court decision would disallow a manipulation of lines to weaken the minority voting strength, a new scheme would come up, and that would have to be addressed by the courts. Through a series of “whack-a-mole” lawsuits, remedies to racial gerrymandering in the South essentially formed most of current redistricting legal doctrine.

¹⁰ Rucho v. Common Cause. “We conclude that partisan gerrymandering claims present political questions beyond the reach of the federal courts” - Chief Justice John Roberts, for the Majority.

Despite the growth in redistricting laws and large number of court rulings, racial gerrymandering has not stopped. We have seen districts that deny Black, Latino and Asian voters effective voting power in California’s local and statewide redistricting, with court interventions as recent as last year.

Incumbent Gerrymander – it is very common in states and local governments for there to be more pressure to preserve stability than make partisan gains. This has happened several times in California history, the most recent being the 2000 redistricting in which Democratic leaders traded votes from Republicans on key policy issues for agreements on those members being able to keep their seats intact.

Incumbent gerrymanders have been very common in local government, with an example coming out of the City of Martinez in a redistricting that the courts¹¹ called a self-parody of the original gerrymander and the League of Women Voters stated “the map which was adopted reflects the City Councilmembers’ primary consideration...to protect their own seats.”



City of Martinez – 2018 Districting

Another example of Incumbent Gerrymandering comes from Kern High School District, where the plan neatly divided three incumbents to remain in their seats. Those three trustees lived within three miles of one another in California’s geographically largest high school district. And the gerrymander wasn’t without consequence – it caused a division on the other end of the district, splitting up the voting power of Latinos.

This kind of manipulation is also called **Sweetheart Gerrymandering** and **Handshake Gerrymandering**.

Dummymander – when a partisan gerrymandering fails, it is sometimes called a Dummymander. Often this is a result of a redistricting which is seeking to maximize the number of partisan seats by achieving the largest number of districts that can be won by a political party. But if that strategy is overstretched, the elastic can snap and the gerrymandering fails, with the opposite party gaining in seats that they were not supposed to be able to win.

While gerrymandering is generally focused on partisan or ethnic manipulation of the districting process, the local government reality is that it is more often about more trivial matters such as drawing a district to capture more affluent voters who are key to fundraising, drawing districts to split a college student population to deny them representation on a local council or board, or drawing districts in a way to weaken the power of a community that has not been favored by the elected body.

¹¹ Sanchez v. City of Martinez

Community Engagement

The process of obtaining public engagement in redistricting allows for new election boundaries to have a rational basis that is built upon local communities, not factors such as partisanship, incumbency, or other disallowed factors. These are important to maintaining public confidence in the redistricting process, and they are the best protection against potential litigation.

Communities of Interest (COI)

Redistricting should build up electoral boundaries from the underlying communities – using the process to empower groups that have similar backgrounds, experiences, and viewpoints in order to allow them to unify and elect candidates of their choice.

Developing communities of interest for a redistricting process is the most important part of public outreach. Listening to residents allows us to develop knowledge about what communities exist, and how they interact with the agency.

Communities of interest are not just those which can be found by objective means, from a census file or other dataset. It is important to allow community members themselves define their communities, how they are geographically based, and what makes them cohesive.

The California Citizens Redistricting Commission was provided this definition to guide their understanding of communities of interest:

“A contiguous population which shares common social and economic interests that should be included within a single district for the purposes of its effective and fair representation. Examples of such shared interests are those common to an urban area, a rural area, an industrial area, or an agricultural area, and those common to areas in which the people share similar living standards, use the same transportation facilities, have similar work opportunities, or have access to the same media of communication relevant to the electoral process.”

These communities can be bound by immutable characteristics, values, or circumstances. Examples of these include:

Immutable characteristics: unchangeable attributes in the population, such as race, age, disability, and national origin.

Shared Values: like an area that values urban diversity, education opportunities, transportation needs, specific governmental policies, land use, outdoor recreation, access to specific services, etc...

COMMUNITIES OF INTEREST VARY BY AGENCY

Communities of interest can vary based on the agency conducting the districting.

Almond/Walnut Growers

During statewide drought conditions, Solano County’s farmers have benefited from the availability of water for their crops.

In this process, two groups of high water usage farmers became a recognized community of interest: Almond and Walnut growers.

Horse People

In Los Angeles city and county redistricting, the “horse people” live in northern San Fernando Valley communities with desires for large lots, low traffic, and more horse paths than sidewalks.

Fishermen

In the San Mateo County Harbor District, the agency was building communities of interest. It became clear that a key community of interest was the populations that use the two harbors in the county: Fishermen, and the commercial businesses that rely on access to the facilities.

Circumstances: these are factors that are consistent across a region, but often not by choice, such as a low-income community, high rates of pollution and asthma, traffic congestion, homelessness or crime rates.

These characteristics are not mutually exclusive – many areas are defined by two or three of these elements which make them cohesive and a defined community of interest.

It is also important to note that communities of interest will vary by agency. A school board should have more focus on education-related communities of interest, a city will receive more community of interest testimony from residents who rely on city services, and a water district may be looking at things such as variation in water rates, or types of consumers.

Communities of interest can also be defined by underlying political geographies. One example of this is the requirement in California state and local redistricting that the geographic integrity of cities, counties and neighborhoods be protected in redistricting along with other communities of interest.

These political geographies are useful as communities of interest because they are a result of individuals defining themselves. Individuals can share some of their circumstances if, as an example, they live in an incorporated city or an unincorporated county, and their boundaries, for the most part, are easily identifiable. The community of interest in political geographies can be compounded when there are distinct and sometimes very large differences in the governance based on living within or outside of a specific political geography. One example would be the difference in tax rates paid by city residents versus those who live outside of an incorporated city while, at the same time, those in a city might receive greater services and amenities that are denied to unincorporated county residents. It is very common in California to find a road that goes in and out of the incorporated city, showing very clearly the variation in services afforded to residents on each side of that boundary.

Neighborhoods can be more fluid, with most agencies having different neighborhood boundaries based on what source is used. But neighborhoods also can benefit from their self-selection. While many residents may have little say over what city or county they are going to live in, the selection of a neighborhood as expressive of their values and desire for specific attributes is a real factor in decisions about where someone will rent an apartment or buy a home. It is no surprise that the greatest use of neighborhoods is on Realtor and property-related websites.

Other physical geography can define communities of interest. The saying “other side of the tracks” can have a real meaning in some communities where a physical location of a railway line, freeway, river or other element can serve as a demarcation point between two sides of a community.

In other cases, the physical location of an airport, golf course, hillside, or valley can define a community. This can be caused by the physical element – like the negative externalities of living near a railroad track, freeway, or dairy farms, or the positive benefits of living near the ocean, on a golf course, or up in the hillsides away from crime and urban congestion.

While communities of interest can be constructed by a seemingly unending number of attributes, state law does prohibit the state, cities and counties from considering partisanship or the residences of candidates and incumbents as communities of interest.

There are two general phases of community engagement, and they can somewhat overlap.

Phase 1 – Community of Interest (COI) Testimony

This is the initial phase of building public input and testimony to develop the basis upon which eventual districts will be constructed. This testimony can come from organizations or individuals, through online mapping, paper/online forms, or verbal/video testimony.

Importantly, this testimony should identify:

- What is the community of interest that is being described through the testimony?
- What is the geographic area of that community of interest?
- What data can be utilized to help identify that community of interest?
- How does that community of interest relate to the city, county, or agency?

It is important to note that some communities of interest may be very important in one districting effort, but not in another, even within the same geography. For example, a city may have a strong set of neighborhoods that form key communities of interest, but for a K-12 redistricting, the campuses may be more important.

Phase 2 – Plan Development and Feedback

Once census data is available local governments can begin the mapping process. Initial maps for cities and counties, per the FAIR MAPS Act, may have a required waiting period before releasing draft maps, but local mapping tools should be updated for the community immediately.

Outreach at this point should focus on how the public can submit draft plans and feedback on any plans created by the staff, consultants, or the body in charge of the local redistricting process.

To inform this process, the public should receive information on the current districts with their new deviations under the 2020 Census data so the public can understand how much current maps would need to be adjusted if they are used as the basis for a new redistricting plan, and there should be an update of any online mapping software to include the new population data.

During this time the body conducting the redistricting should not forget the importance of communities of interest as a building block of new plans. The Phase 1 COI testimony should continue as it will help inform any changes to the plans and provide ways for the new districting plan to be justified by these elements rather than disallowed criteria.

Census Data

The census is a snapshot of the population once every decade based on where each resident resides on April 1st. The count is mandated by the Constitution and conducted by the U.S. Census Bureau, a non-partisan government agency. In 2020, each home in the United States received an invitation to respond to a short questionnaire online, by phone, or by mail.

Even before a determination of the quality of the 2020 Census enumeration, we already know the process was marred by significant structural and political problems. Including:

1. The introduction of the online census survey, which the Census Bureau failed to sufficiently test and that was launched before the conclusion of the department's full evaluation plan.
2. The census was caught in a political fight over the inclusion of a citizenship question, inserted into the census through a process that was intended on using the data to disenfranchise minority communities. This effort was ultimately rejected by the Supreme Court.
3. The COVID-19 pandemic caused a massive disruption in the traditional door-to-door process of enumeration, causing delays and considerable challenges with the self-reporting phase of the census data collection.
4. Additional political moves to remove non-citizen population from the statewide counts used for reapportionment and attempts to use other statewide data to identify non-citizens in the decennial redistricting file continued to cause disruptions and delays in the processing of data.

There are many products of the census, two of which are critical for conducting redistricting. Those two data sets are the PL 94-171 File and the American Community Survey.

Public Law 94-171 File

Public Law 94-171 directs the Census Bureau to make special preparations to provide redistricting data needed by the 50 states.

Required by law, the Redistricting Data Program provides population and demographic data in small geographic areas called census blocks which can then be used as the basis for redrawing election district boundaries.

The PL file is required to be released within a year of the April 1 decennial census and has traditionally been delivered in six waves leading up to March 31 of years ending in 1. In this redistricting cycle, the data is expected to be six months late, significantly curtailing the time available in the 2021-2022 redistricting cycle. The impact of this late census is still unknown, but several states and municipalities are already considering conducting their upcoming 2022 elections using their existing lines.

American Community Survey (ACS)

The American Community Survey, previously known as the Long Form Census, is sent to a small subset of the population and used to create a wider picture of individual and household characteristics.¹² The survey asks questions about housing, income, education and other factors, including citizenship and it is

¹² <https://www2.census.gov/programs-surveys/acs/methodology/questionnaires/2020/quest20.pdf>

used by researchers, the federal government, commercial enterprise, and demographers conducting redistricting for jurisdictions.

Data is released at different geographies, based on different methodologies.

- ACS 1-year estimates are data that have been collected over a 12-month period and available for geographic areas with at least 65,000 people.
- The Census Bureau combines 5 consecutive years of ACS data to produce multiyear estimates for geographic areas with fewer than 65,000 residents.
- The smallest release is 5-year estimates at the census block group level produced for the Department of Justice to allow for the analysis of voting age citizens and their ethnic breakdown. These are known as **Citizen Voting Age Population** or CVAP counts. This data is further disaggregated down to the block level in order for it to be used in the redistricting process.

CVAP is an important and required part of the census data when conducting redistricting as it acts as the “eligible voter” population when determining VRA compliance.

For the 2014-2018 CVAP Special Tabulations the following categories are included:

- Total
- Not Hispanic or Latino
- American Indian or Alaska Native Alone
- Asian Alone
- Black or African American Alone
- White Alone
- American Indian or Alaska Native and White
- Asian and White
- Black or African American and White
- Asian and White
- Black or African American and White
- American Indian or Alaska Native and Black or African American
- Remainder of Two or More Race Responses
- Hispanic or Latino

Within California, it is most common to utilize the Hispanic/Latino, Asian and African American total CVAP population groups, without combining the mixed ethnicity populations for Section 2 Voter Rights Act analysis. In other states, we find it more common to combine groups, particularly African American and each of the Black and Other categories.

When a district is determined to be at 50% of a protected class, and a majority minority district under Section 2 of the Federal Voting Rights Act, that calculation is made from the CVAP data.

Census Geographies

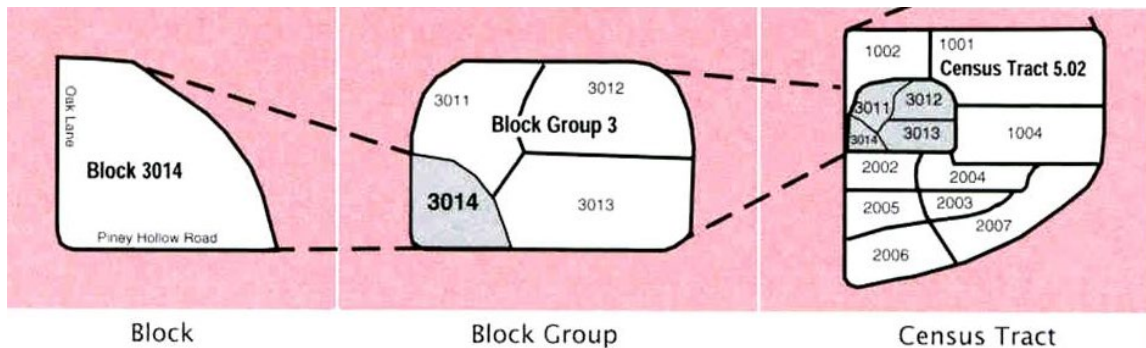
The census data is generally thought of as the counts of population, but it also includes the geographies in which the data is provided. These begin with small geographic units which have population, then are built up in a hierarchical fashion. The architecture of these geographic datasets is called Topologically Integrated Geographic Encoding and Referencing, or TIGER files.

Building up from the smallest unit, the shapes start with census blocks, then those are combined to make block groups, which are combined to make Tracts.

Census blocks are the basic building blocks of all geographic boundaries. They are the smallest level of geography where census data is available, including total population, age, sex and race. They are often the size of a city block, but in an unpopulated area they can encompass many square miles. In California there were over 700,000 blocks, but for 2021 many of the blocks with no population were consolidated, with the final 2021 file having just over 500,000 blocks.

Census block groups are the next level above census blocks in the geographic hierarchy. A block group consists of multiple blocks and can average around 1,500 residents. The block group is the smallest geographic area where ACS data is made available.

Census tracts are the next level above block groups. Census tracts have an average population of around 4,000 people. Some census data comes in the Tract level, such as household demographics.



Redistricting Software

Redistricting Partners has used multiple GIS programs in both desktop and online platforms in different redistricting jurisdictions. We are not endorsing a specific program but instead leave that up to the jurisdictions to evaluate their budget, targeted users, and needs.

In the time of COVID and inability to host in-person paper-based mapping workshops, online meetings and web-based mapping platforms are a way for the public to be engaged in a more meaningful way.

Desktop Programs

These are programs used by professionals and academics in order to draw or evaluate redistricting maps. They are built out of the same software used by other professionals to manage everything from traffic patterns for civil engineering projects to student attendance for school sites.

The three primary desktop programs are ESRI, Maptitude and QGIS.

ESRI - Started as the Environmental Systems Research Institute, ESRI is a private mapping company with more than a billion dollars in revenue from private industry, academia and state and local governments. Their primary application is ArcGIS and it is used in multiple fields, with redistricting being but a small share of its business.

Within redistricting ESRI shapefiles are a standardized format that can be read by any legitimate redistricting software.

Maptitude - Caliper Corporation created Maptitude as a program mostly for traffic and municipal analysis, but it quickly specialized into its popular Maptitude for Redistricting software. This software has been credited as the primary new tool in the advancement of redistricting and GIS in 2000 and 2010, helping shape lines in more states and localities than any other software.

QGIS – The QGIS system is a free open-source desktop GIS software that supports viewing, editing, and analysis of mapping data. There have been multiple programs built by redistricting enthusiasts and academics to run in the QGIS platform. These are not consumer products but will appear in redistricting discussions, generally by outside organizations that cannot afford expensive GIS programs.

Online Programs

There are multiple online programs designed to allow the public to interact with the redistricting process. Some of these are commercial programs often purchased by states and local governments to allow for public engagement in an environment where those maps and data are submitted to the agency doing the redistricting. In these commercial platforms there are controls over what data is presented.

There are also online programs created by nonprofits which they can control, and are being used to help outside groups organize and interact with the redistricting process.

The first set of online programs are those which can be commercially obtained by a state or agency and run on their own servers, or connected to their redistricting in a way that all public comment is funneled

to their staff and the management of data layers and information is directed by the staff or consultants. These include:

- **Maptitude Redistricting Online Edition** – a web-based redistricting software designed for governments or organizations that want to provide their members or the general public with a means to draw and report redistricting plans. Because the Windows and online versions share common file formats, plans developed online can be electronically submitted to the central redistricting office, opened in the Windows-based software, and analyzed to the full extent as if they had been created using the Windows-based software.
- **Esri Redistricting** – a web-based version of the Esri Redistricting software that enables governments, advocates, and citizens to complete and share redistricting plans. It is based on Esri’s ArcGIS software and dataset components and describes itself as having “comprehensive tools for plan creation, management, visualization, editing, and collaboration.”
- **DistrictR** – a public online program but has commercially available custom modules for local government. This is a lightweight program which allows users to draw draft maps and submit them with an email link or downloaded GIS files.

The other set of tools are the public online programs, mostly created by nonprofits and funded by foundations. These are not controlled by the local agency, but instead setup and managed by outside groups.

- **Dave’s Redistricting App** – the original high-use free online public redistricting tool. This software allows users to develop and analyze statewide redistricting plans. It is primarily used by redistricting enthusiasts, students, and political organizations.
- **Draw My California Community** – a community of interest and mapping tool created by the UC Berkeley Statewide Database for the California Citizen Redistricting Commission. It is being used as a public tool for the community to conduct mapping and send it as testimony to the state commission.
- **DistrictR** – this tool, also available as a commercial product, has been launched in several states and cities based on where organizations and foundations have asked for it to be created.
- **Representable** – a free open-source tool for building community of interest testimony created by the Princeton Gerrymandering Project.

Advanced District Analysis

Districts are regularly analyzed in terms of their traditional criteria. This includes basic analysis of a district's total deviation, determination of compactness and contiguity, and other basic factors. But there are also more advanced tools that are used in the redistricting field, some of which have become extremely common in California, particularly when it comes to the implementation of the California Voting Rights Act. And many of these tools will likely become a part of litigation around the Fair Maps Act.

Measuring Racial Polarization

There are several tools that can be used in determining differences in voting patterns. These range from methods that can add to a simple understanding of overall voting behavior to the true statistical identification of racially polarized voting for the purposes of the California or Federal Voting Rights Act.

Visual Analysis - The simplest method for estimating voting behavior by race/ethnicity is to overlay a map of election results with a similar map of ethnic densities. This is a non-statistical technique that can provide a user-friendly understanding of the relationship between ethnic groups and election results. When the pattern of elections and ethnic groups looks similar, there is a strong rationale for further analysis.

Homogeneous Precinct Analysis – The first level of data analysis is of voting patterns in homogenous census blocks – small areas that are composed of a single racial group. The voting patterns of minorities in these blocks are analyzed and compared to similar areas with very few minority voters.

In the absence of exit polls and direct access to individual ballots, this common measure of racially polarized voting provides a high-confidence way to see voting patterns. Since census blocks are usually not exclusively one race, blocks with greater than 80% or more individuals of a single race are considered homogeneous. In order to have statistical validity, there should be a large number of homogenous precincts. In some parts of the state, aggregation of many census blocks will provide a final analysis of several thousand individual vote results in a cluster that is 90% or more of one single race.

Regression / Trend Line Analysis – A trend line analysis is done using all the census block level election results from a candidate race or ballot measure. The results for each census block are placed in a formula with a variable to be studied, such as ethnicity of that census block. The data points are each individually plotted with a simple regression to overlay a trend line. This trend line will show how the vote for or against a candidate or ballot measure increases or decreases as the variable changes.

Multivariate regression analysis - a more advanced method that can identify the impact of ethnic subgroup polarization as compared to other factors such as income, age, gender, or educational level.

Ecological Inference (EI) – builds upon regression analysis by looking at the variance of the vote total in each precinct along with its variance in the population of the correlated racial group. Armed with the known ethnic composition of the voting population and the results of the

regression analysis, the method determines the probability of a district's support for a given candidate.

Given that Section 2 of the Federal Voting Rights Act can require certain conditions to be met in order to use race as a primary factor in the drawing of district lines, this kind of analysis, or community testimony to support it, can be necessary before an agency can deem any district to be a Section 2 majority-minority seat.

Measuring a Gerrymander

A gerrymandering cannot be judged solely on a "you know it when you see it" standard. In order for gerrymandering to be fought, there needs to be measurements that can discern between a funny-shaped map that has justifiable intent, and those that are clear manipulations. And gerrymanders can also exist in plain sight as a sophisticated gerrymandering can manipulate the maps without having to resort to the odd shapes that draw criticism.

Traditionally, a gerrymander was measured by answering the following questions:

1. Are the district populations imbalanced?
2. Is there an unnatural shape to the district that cannot be easily justified?
3. Does the districting plan unevenly distribute members of a political party?
4. Does the outcome of elections match the makeup of the state or agency as a whole?

These general questions have resulted in dozens of redistricting plans being challenged in court, and many cases of redistricting being invalidated because of unequal population, odd shapes, and clear manipulations to dilute the voting power of minority communities as a result of cracking and packing.

In addition, gerrymandering can be proven by identifying intent. Several gerrymandering attempts have been undone by elected officials or individuals documenting how a redistricting was being done to promote some illegal intent. But proving more advanced gerrymandering without a smoking gun can be challenging.

In order to measure the impact of a redistricting, and determine if it has signs of a gerrymandering, researchers have developed a number of more advanced tools. This area of redistricting research has been growing and developing over the past decade and will likely make even more advances in this redistricting cycle.

Partisan Symmetry - this is based on the simple fact that in an individual voting district, whoever gets a plurality of the votes wins the seat, which can be extended to an entire state. If a state is 35% Democratic, it should win roughly 35% of district elections. Of course, other factors, like the need to draw majority minority districts, or the self-segregation of likeminded voters into certain communities can disrupt partisan symmetry. The 2012 Congress could be considered an example of partisan asymmetry as Republicans had 234 seats to the Democrats' 201, despite earning 1.4 million fewer votes nationally.

Efficiency Gap – this is a measure goes a step further than simple measures of symmetry and looks at the underlying imbalance of voting power in individual districts. It finds that that in packed districts there are more votes than necessary to elect a partisan candidate, resulting in

“wasted votes.” The wasted votes are summed up across each district in a plan to present a metric which can be compared among alternative mapping scenarios.

Ensemble Analysis – this method uses algorithmic redistricting tools to create thousands or millions of maps and then uses statistical analysis to determine what the median mapping outcome would be along certain metrics such as ethnicity, partisan advantage, or incumbent protection – and then compares a proposed or enacted plan to those many computer-generated alternative. This can show if the outcomes of a redistricting fall within the range of expected outcomes using only neutral criteria or if it is an outlier, pointing to a potential gerrymandering.

California-Specific Laws

Over the past 15 years, California has undergone a transformation of its redistricting process. This includes drawing of statewide and congressional lines, the rules for county and city redistricting, and the conversion of formerly at-large elections to districted systems.

Statewide Redistricting Reform

California voters in 2008 passed Proposition 11 which took the responsibility for redistricting state legislative districts out of the hands of the legislature and governor and gave it to a public commission comprised of five Democrats, five Republicans, and four registered non-partisan or other minor parties. In 2010, voters passed Proposition 20 to extend the commission's role to redraw congressional districts too.

These laws set forth a process for selecting commissioners that balance racial, ethnic and political composition, that ensures a diversity of backgrounds, geography and skillsets. Once empaneled, the commission is required to conduct extensive outreach, build a foundation of community of interest testimony, and draw lines that follow ranked criteria for protecting the voting rights of the state's residents, preserve counties and cities, and ensure compact and contiguous districts.

The commission is not allowed to consider place of residents of any individual, including any incumbent or political candidate, in the creation of a map and cannot draw districts for the purpose of favoring or discriminating against a political party.

The California Citizens Redistricting Commission successfully drew lines for legislative, congressional and Board of Equalization districts in 2011. These boundaries, and that process, withstood several lawsuits and both the process and outcome has become a national model, replicated in several other states and local governments.

In 2020, the second commission was seated and they have begun their work for the decade.

California Voting Rights Act

The California Voting Rights Act (CVRA) was enacted in 2002 and focuses exclusively on the use of at-large election systems. As defined in the law, at-large systems include any election method except single member districts in which only the area voters select their representative.

The law does not create any oversight agency or empower any state or regional agencies to implement the law. Instead, it is left to the courts.

Unlike Federal Voting Rights Act cases, CVRA suits can be filed in local courts and costs for litigation fully recoverable from the successful plaintiff. To be successful, a plaintiff must only prove that racially polarized voting exists and that any protected subgroups could influence elections under a different system. This is a lower bar than what is set under Section 2 of the VRA.

In California, hundreds of cities, school boards, and other agencies have been forced to convert to districted election systems in order to comply with the CVRA. The law was recently updated to ease the conversion to districted elections utilizing a "safe harbor provision" where the agency agrees to a 90-day timeline in which they will complete the conversion in an open and transparent process, which includes

five hearings, maps that are made available to the public, and other conditions. This deadline can be extended to 180 days with agreements from any plaintiffs, and for 2020-2021 agencies have been allowed to delay until the release of the U.S. Census data.

California FAIR MAPS Act

California’s Fair And Inclusive Redistricting for Municipalities And Political Subdivisions (FAIR MAPS) Act, enacted in 2020, increases transparency and public accountability in redistricting. While it only specifically applies to cities and counties in California, the Fair Maps Act codifies traditional redistricting best practices that should be utilized by all local governmental agencies in California, whenever possible.

The FAIR MAPS Act establishes a series of criteria for cities and counties to draw lines. Criteria for drawing district lines are:

1. Population equality, after prisoner reallocation;
2. Compliance with the U.S. Constitution, California Constitution, and the federal Voting Rights Act;
3. Geographic contiguity;
4. Geographic integrity of any local neighborhood or local community of interest;
5. Geographic integrity of a city or census place;
6. Should be bounded by natural or artificial barriers, streets, or the boundaries of a county or city; and
7. Geographic compactness in a manner that nearby areas of population are not bypassed in favor of more distant populations.

Beyond these criteria, the FAIR MAPS Act states that a board of supervisors or city council shall not use the address of an incumbent or candidate or political party as communities of interest when drawing plans or adopt district boundaries “for the purpose of favoring or discriminating against a political party.”

The FAIR MAPS Act also establishes a structure for public engagement which includes five public hearings: up to two conducted prior to line drawing, at least two more held for public input and changes after maps have been made public, and one final hearing for adoption of a final map that has been made public for 7 days prior to adoption.

Redistricting in Other CA Jurisdictions

California Community Colleges, School Boards, Water Boards, and other special districts are subject to the CVRA and have been increasingly driven to change at-large election systems to districts. However, the FAIR MAPS Act does not impact agencies beyond cities and counties, leaving other agencies to follow older code sections and utilize best practices for their redistricting process.

The operative code for most local agencies has not been substantively changed since 1976, and it doesn’t even make reference to the Voting Rights Act. This, however, isn’t a license for local agencies to abandon traditional redistricting principles. Even though it is not explicit in state codes, these agencies should attempt to follow as much of the traditional norms in redistricting and apply as many of the Fair Maps Act provisions as practical.

Additional Redistricting Topics

There are a number of additional topics in redistricting that have emerged in the last decade and been the subject of legislative policymaking and legal decisions.

Accelerations and Deferrals

In a jurisdiction where there are four-year terms for elected representatives with elections occurring every two years, a voter who just voted for their elected representative can again elect a representative two years later because their underlying district lines were redrawn in a redistricting. Technically, in this situation, they have two representatives – the one they elected before the redistricting, and the one they just voted for. Their opportunity to vote has been accelerated by two years.

The opposite is a deferral, where because of changes to district lines, a voter or group of voters is moved into a new district that has already voted for their elected representative and this new group will have to wait an additional two years to get the chance to vote for their elected representative. Their opportunity to vote has been deferred for two years.

In local redistricting, it is a best practice to renumber in a way that will minimize the number of residents who are subject to an acceleration or deferral.

Prisoner Reallocation

A handful of states, including California, have changed how incarcerated persons are counted and allocated during the redistricting process. In these states, when possible, they reallocate prisoners from the prison location to their residence prior to incarceration.

For the 2020 Census, California will be reallocating state prison populations to their residence or last known address prior to being arrested.¹³ The bulk of these prisoners are currently incarcerated in rural counties.

One rationale behind this policy is the practical fact that prisoners are non-voting population, and in a redistricting, particularly of a smaller agency, the prison population can be sizeable and distort the voting power of residents. There are cases in California where if a district was required to include the prison population, a district could be drawn with almost all prison population, and just a small number of eligible voters.

Another rationale has to do with the equity in districts that have lost population due to the number of their residents that have been incarcerated. If, as an example, a city of 20,000 had a side of town where 500 former residents were incarcerated, then their council district would have to expand by 12% in order to meet equal population. That expansion, and its capture of additional voters, could serve to dilute the voting power of their neighborhoods. Placing the prison population back into those areas can improve line drawing for these residents.

To date, eight states have passed laws. States vary in their reallocation treatment of state and federal inmates and in their specific person's last known residences for redistricting purposes.

¹³ <https://capitolweekly.net/odd-tale-prisoners-redistricting/>

The Census Bureau does not do this reallocation and instead continues to only count prisoners at the correctional facility, ensuring consistency with past censuses and the language of the Census Act of 1790. However, they recognize the large number of states that are interested in reallocation and they make geocoding services available those states.

In California, the agency tasked with implementing the reallocation of group quarter (GQ) populations is the Statewide Database, managed by the University of California, Institute for Governmental Studies.

California's Citizens Redistricting Commission has affirmed its support for this policy and expressed interest in reallocation of federal prisoners as well.

Differential Privacy

The Census Bureau has a mandate to keep individual household confidential and private for 72 years. To ensure such confidentiality of individual data, the Census Bureau plans to implement a new approach called **differential privacy**.

This need for a new policy comes as computing power has advanced and large datasets can be combined with other data sources that are unpacked by hackers in a way to reveal personal information.

In order to evade such hacks, the census alters the raw data before it is released. Since 2000, the Census Bureau has used data-swapping between census blocks as its main disclosure avoidance technique. However, this is no longer seen as sufficient. For the 2020 Census, a new process will "inject noise" into the census, altering population numbers in each census geography, from census block to county levels.

The actual amount of noise in the data is still being determined by the Census Bureau. Some known issues with this process include:

- Rural areas will see a greater variance from the raw data than urban areas. Specifically, rural areas are likely to show increases in population and urban areas may show decreases in population.
- Smaller subpopulations, such as a specific racial group, will be affected more than larger racial or ethnic groups.
- The impact on states will vary, depending on their overall demographics.
- Longitudinal studies based on census data may be compromised.

While this data issue is garnering a lot of attention within the census/redistricting community, the practical impact on redistricting will be muted. The fact is that data swapping and noise within two census blocks could be important, when just looking at those two blocks. But when a district is created by combining 10,000 census blocks in a congressional district, or even 1,000 blocks in a city council district, that noise is almost entirely washed out.

Additionally, redistricting is required to use the PL-94-171 file, flaws and all. The current known flaws in the census undercount, particularly within minority and non-citizen communities, is a much more pernicious problem in the census than any kind of differential privacy process, yet there are no remedies for those shortcomings. Agencies must use the census data that is provided, without any opportunity to amend or adjust that data.

Redistricting Glossary

Accelerations – In an election area where there are four-year terms and elections every two years, a redistricting will result in a situation where a voter just recently elected a representative, then a redistricting happens, their district changes, and they get to again elect a representative just two years later. Technically, in this situation, they have two representatives – the one they elected before the redistricting, and the one they just voted for. Their opportunity to vote has been accelerated by two years. For the opposite, see Deferrals.

American Community Survey - Ongoing statistical survey by the U.S. Census Bureau, sent to approximately 250,000 addresses monthly (or 3 million per year). The ACS regularly gathers information previously contained only on the long form of the decennial census. Data is reported at the block-group or census tract level.

Apportionment - Following each census, the 435 seats in the U.S. House of Representatives are apportioned to each state based on state population. The larger the state population, the more congressional representatives the state will be apportioned. Apportionment, unlike redistricting, does not involve map drawing.

At-large election system - An at-large election system is one in which all voters can vote for all candidates running for open seats in the jurisdiction. In an at-large election system, candidates run in an entire jurisdiction rather than from districts or wards within the area. For example, a city with three open city council positions where all candidates for the three seats run against each other and the top three vote-getters citywide are elected is an at-large election system.

Bailout – When an agency under Section 5 successfully appeals to the U.S. Department of Justice to be removed from the group of states and counties that are required to receive preclearance for election changes, including redistricting.

Bloc Voting - A behavior of communities in which their voting patterns move as a unit, usually due to race, and their patterns follow their group identity more than traditional other characteristics, like partisanship, age, or left-handedness.

Bullet Voting - a method of voting in a race where the voter can vote for multiple candidates, but supporters agree to only vote for their one most supported candidate, denying other candidates the remaining extra votes, and giving their preferred candidate a mathematical advantage. Can be used to as a method to strengthen minority voting power.

California Voting Rights Act – A state law prohibiting the use of at-large districts in any agency with racially polarized voting.

Census - The United States Census is a population enumeration conducted every 10 years, the results of which are used to allocate Congressional seats, electoral votes and government program funding. As part of the census, detailed demographic information is collected and aggregated to a number of geographical levels.

Census block - The smallest level of census geography used by the Census Bureau to collect census data. Census blocks are formed by streets, roads, bodies of water, other physical features and legal boundaries shown on Census Bureau maps. Redistricting is based on census block-level data.

Census block group - A collection of census blocks sometime used for data estimates from the ACS that are not as reliable at the block level.

Census tract - A level of census geography larger than a census block or census block group that sometimes corresponds to neighborhood boundaries and is composed of census blocks.

Coalition District – See Majority Minority Coalition District

Cohesiveness – the extent to which different individuals or groups vote in a consistent pattern with each other. This can be demonstrated by a number of statistical means, most commonly regression analysis or environmental inference.

Community of Interest - A community of interest is a neighborhood or community that would benefit from being maintained in a single district because of shared interests, views or characteristics.

Although the preservation of "communities of interest" is required by many districting laws, the meaning of the term varies from place to place, if it is defined at all. The term can be taken to mean anything from ethnic groups to those with shared economic interests or workforce, to users of common infrastructure to those in the same media market. The Brennan Center for Justice provides a helpful summary of some of these uses.

Compactness - One of the "traditional" redistricting principles, low compactness is considered to be a sign of potential gerrymandering by courts, state law and the academic literature. More often than not, though, compactness is ill-defined by the "I know it when I see it" standard. Geographers, mathematicians and political scientists have devised countless measures of compactness, each representing a different conception, and some of these have found their way into law.

Contiguity - Like compactness, contiguity is considered one of the "traditional" redistricting principles. Most redistricting statutes mandate that districts be contiguous-- that is, they are a single, unbroken shape. Two areas touching at their corners are typically not considered contiguous. An obvious exception would be the inclusion of islands in a coastal district.

Cracking - A form of voter dilution occurring when districts are drawn so as to divide a geographically compact minority community into two or more districts. If the minority community is politically cohesive and could elect a preferred candidate if placed in one district but, due to cracking, the minority population is divided into two or more districts where it no longer has any electoral control or influence, the voting strength of the minority population is diluted.

Crossover Districts - A crossover district is one in which ethnic or language minorities do not form a numerical majority but still reliably control the outcome of the election with some similarly-minded majority voters crossing over to vote with the minority group.

CVAP (Citizen Voting Age Population) - An estimate of the raw number or percentage of 18-and-older citizens provided by the U.S. Census through the American Community Survey. This number represents

the amount of potential voters that could be active in elections – an important measure in voting rights act cases.

CVAP is an estimate, and as with other Census Bureau estimates it comes with a margin of error. In an area as large as an LAUSD district, the margin of error will be fairly small.

Deferrals – In an election area where there are four-year terms, and elections every two years, a redistricting will result in a situation where a voter is set to elect a representative in the coming election, then a redistricting happens and their district changes to one that is not up for two more years. When their incumbent representative retires, they don't have the opportunity to vote on a new representative. Technically, in this situation, they have no representative – their old representative moved to a different area and they have not yet had a chance to elect a new representative under the redistricted system. Their right to representation has been deferred for two years. For the opposite, see Accelerations.

Deviation – The deviation is any amount of population that is less than or greater than the ideal population of a district. The law allows for some deviation in state and local redistricting plans.

Dispersion – within compactness calculations, dispersion-based measures, such as the Reock and convex hull measures, evaluate the extent to which a shape's area is spread out from a central point. A circle is very compact, while a barbell is less compact.

Districted Elections – A system in which geographic boundaries are created for the purposes of elections. The most common type is a single-member district where the one elected official who represents that district is elected only by those who reside in the district. Two other common forms are multi-member districts, wherein the voters will elect two or more representatives from their area, and at-large election areas, where the representative must live in the area, but all voters participate in the election, not just residents of the area.

Effective minority district – a distinction between a district with the density of minority voting population necessary for that community to election a candidate of choice, and a district that technically meets the 50% threshold, but does not provide an advantage in elections. In very rare cases, a district can be considered an effective minority district at a measure below the 50% threshold.

Ecological Inference (EI) – A popular statistical method used to identify polarized voting and make projections about the voting patterns of an area based on data regarding past elections and the ethnic or other composition of the electorate.

Functional Contiguity - when areas are contiguous by how they relate to the community. Two sides of a mountain pass may not be functionally contiguous, even if literally contiguous, and an island may not be literally contiguous, but be functionally contiguous to the shore of the mainland.

Gerrymandering - the process by which district boundaries are drawn to confer an electoral advantage on one group over another. The term is a portmanteau word formed from the surname of Massachusetts Governor Elbridge Gerry and the salamander shape of the district he approved, which appeared in an 1812 cartoon. Gerrymandering can take on many forms.

Gingles Factors - The Gingles factors are three preconditions set forth by the U.S. Supreme Court in *Thornburg v. Gingles*, 478 U.S. 30 (1986), that a minority group must prove to establish a violation of Section 2 of the Voting Rights Act.

GIS (Geographic Information Systems) – Rooted in the science of geography, GIS integrates many types of data into a spatial location and organizes layers of information into visualizations using maps and 3D scenes.

Group Quarters – As defined by the census, Group Quarters are places where people live or stay in a group living arrangement. These places are owned or managed by a third party that provides residents with housing and services. Examples include: Nursing facilities, prisons, and university dormitories. See: Prison Population Reallocation

Handshake Gerrymander - a form of an incumbent gerrymander between candidates of different parties who agree to an incumbent gerrymander, often in exchange for other votes or policy/political favors.

Ideal population - The ideal population is the number of persons required for each district to have equal population. The ideal population for each district is obtained by taking the total population of the jurisdiction and dividing it by the total number of districts in the jurisdiction. For example, if a county's population is 10,000 and there are five electoral districts, the ideal population for each district is 2,000.

Incumbent / Incumbency – The current elected official. Incumbents and candidate addresses are not allowed to be a community of interest in California, for the purpose of redistricting at the state, county or city jurisdictional levels.

Incumbent Gerrymander - the drawing of lines in a way that manipulates the process and divides communities in the name of protecting the interests of incumbent elected officials.

Indentation - Perimeter-area based measures of compactness, like the Polsby-Popper and Schwartzberg measures, can utilize indentation of district boundaries as a part of the calculation. Shapes with a smooth perimeter are more compact, while those with a contorted, squiggly perimeter have more indentations and are less compact.

Majority-minority district - a district in which racial or ethnic minorities comprise a majority (50%-plus-1 or more) of the population.

Metes and Bounds – A written description of district lines used in tandem with maps and other data and in some counties used as the official determination of district lines. These files are known for overly specific wording, such as “walk through the middle of the stream,” and “continue through the area between the vacant lot and the open field.”

Minority-coalition district - a type of majority-minority district in which two or more minority groups combine to form a majority in a district.

Minority Influence district - An influence district is one that includes a large number of minority voters but fewer than would allow the minority voters to control the election results when voting as a bloc. Minority voters are sufficient in number in “influence districts” to influence the outcome of the election.

Minority opportunity district – a district that provides minority voters with an equal opportunity to elect a candidate of their choice regardless of the racial composition of the district.

Minority vote dilution – when minority voters have their voting power weakened through an election structure or other means which deprives them of an equal opportunity to elect a candidate of choice. It is prohibited under the Voting Rights Act of 1965. Examples of minority vote dilution include cracking, packing, and the discriminatory effects of at-large election systems.

Nesting – The placing of districts within districts. This is most common in legislative maps where some states place two lower-house members within each single upper-house district. California has a lower-tiered requirement for nesting in legislative districts, however in 2011 this rule was barely followed.

One-person, one-vote – The constitutional requirement that requires each district to be substantially equal in total population. The principle is based on the mathematical assumption that one person in a district with 10 people has more of a voice in our democracy than one in a district with 10,000 people.

Packing – A form of vote dilution prohibited under the Voting Rights Act where a minority group is over concentrated in a small number of districts. For example, packing can occur when a minority population is concentrated into one district where it makes up 90% of the district, instead of two districts where it could be 50% or more of each.

Point Contiguous – when a district is connected only by two corners touching.

PL 94-171 – The eponymous federal law that requires the United States Census Bureau to provide states with data for use in redistricting and mandates that states define the census blocks to be used for collecting data. This is also used as the name for the U.S. Census dataset released every 10 years under the law.

Precinct - An area created by election officials to group voters for assignment to a designated polling place so that an election can be conducted. Precinct boundaries may change several times over the course of a decade. Several counties have transitioned away from precinct-based voting locations in exchange for county-wide vote centers, however the precinct is still a basis for determining what elections any voter can cast a ballot in, and they are how counties report election results.

Preclearance - The process of seeking review and approval from either the U.S Department of Justice or the federal court in the District of Columbia by jurisdictions that are covered under Section 5 of the Voting Rights Act.

Prisoner Population Reallocation – the act of shifting incarcerated population from where they reside on April 1st according to census data to their last known residential address or location of their arrest, simply for the purposes of defining the size of a census block.

Racially polarized voting or racial bloc voting – Patterns of voting along racial lines where voters of the same race support the same candidate who is different from the candidate supported by voters of the majority population. These have slightly different interpretations in the federal and state voting rights acts.

Reapportionment – The process of allocating seats in a legislative body to geographical areas, such as the U.S. Congress, where the number of seats in the House of Representatives is fixed at 435 and the number of seats allocated to each state is reevaluated following each decennial census.

Retrogression – A change in districting boundaries that puts minorities in a worse position under the new scheme than under the existing one. A key measure in Section 5 preclearance by the Department of Justice.

Section 2 (of the Voting Rights Act) – A key provision that protects minority voters from practices and procedures that deprive them of an effective vote because of their race, color, or membership in a particular language minority group. Districts covered under Section 2 include those where an ethnic or language minority is 50% or more of the citizen voting age population (CVAP) based on the current lines.

Section 5 (of the Voting Rights Act) – prohibits jurisdictions covered by Section 5 from adopting voting changes, including redistricting plans, that worsen the position of minority voters. This act is inactive after the Supreme Court invalidated the coverage formulas of Section 4.

Shapefiles – Electronic files that are used in GIS applications to identify shapes, generally of district boundaries or election areas, but they can also be used to identify physical geography, communities of interest, landmarks, and other features on a map.

Sociological gobbledygook – a term used by Supreme Court Chief Justice Roberts to discredit political science and mathematical tools used to quantify partisan gerrymandering.

String Contiguous – when a district is made contiguous by an area which is long and narrow, often unpopulated, such as a freeway or major road.

TIGER – Topologically Integrated Geographic Encoding and Referencing (TIGER) is the geographic basis of the census. The files do not contain the census demographic data, but merely the geospatial/map data.

Undercount – The number of Americans missed in the census.

Vote Dilution - any structure or voting / elections method that has the effect of weakening the voting power of a group or community.

Voting age population – Residents calculated in the census that are over 18 years old, irrespective of their citizenship.

Voting Rights Act - The U.S. Voting Rights Act of 1965 was a landmark piece of civil rights legislation that outlawed discriminatory voting practices-- racial gerrymandering among them-- that had been used to disenfranchise African Americans. See: California Voting Rights Act

This manual was produced by Sophia Garcia and Paul Mitchell. For questions or additional information please email info@redistrictingpartners.com



Santa Clara Valley Water District

File No.: 21-0521

Agenda Date: 6/16/2021
Item No.: 4.3.

COMMITTEE AGENDA MEMORANDUM

Redistricting Advisory Committee

SUBJECT:

Next Meeting and Agenda Items.

RECOMMENDATION:

Discuss and confirm next meeting date and agenda items.

SUMMARY:

Review schedule for upcoming meeting dates in 2021-2022.

ATTACHMENTS:

Attachment 1: Schedule

UNCLASSIFIED MANAGER:

Michele King, 408-630-2711



2021-22 Redistricting Advisory Committee Meeting Schedule

Activity	Category	Date
RAC elects permanent Chair and Vice Chair and receives presentations on: <ul style="list-style-type: none"> • Review of draft redistricting “manual” outlining different terminology, including: <ul style="list-style-type: none"> ○ Voting Rights Act ○ rules of redistricting, ○ the census, ○ communities of interest ○ map creation ○ Fair Maps Act • Introduction of BeHeard effort 	Training	June 23, 2021 6 pm
Presentations on <ul style="list-style-type: none"> • Brown Act • Conduct of Meetings Rules • Adoption of bylaws • Governance process 	Training	July 14, 2021 6 pm
Presentations on <ul style="list-style-type: none"> • DistrictR Redistricting software and training for public and committee • process for outreach hearings • mapping tools 	Training	August 18, 2021 6 pm
Presentation on: <ul style="list-style-type: none"> • Census Data Release Meeting with presentation to RAC on existing districts and new populations 	Public Meeting	September 15, 2021 6 pm
Outreach Meeting #1 for District 7	Public Meeting	September 22, 2021 1:30 pm
Outreach Meeting #2 for District 6	Public Meeting	September 29, 2021 6 pm



Activity	Category	Date
Outreach Meeting #3 for District 5	Public Meeting	October 6, 2021 6 pm
Outreach Meeting #4 for District 4	Public Meeting	October 13, 2021 6:00 pm
Outreach Meeting #5 for District 3	Public Meeting	October 20, 2021 6 pm
Outreach Meeting #6 for District 2	Public Meeting	October 27, 2021 6 pm
Outreach Meeting #7 for District 1	Public Meeting	November 3, 2021 6 pm
Map Drafting meeting – live map drawing with direction from the Committee	Public Meeting	December 1, 2021 6 pm
RAC Meeting to review and select Final Map(s)	Public Meeting	January 12, 2022 6 pm
Board Meeting on RAC Recommended plan(s) #1	Public Meeting	February 9, 2022 1:00 pm
Board Meeting to vote on Final Maps #2	Public Meeting	February 22, 2022 6 pm
Board Meeting #3 (if needed) to vote on Final Maps	Public Meeting	March 8, 2022 1 pm

