



## THE CONCRETE COALITION

### Community Risk Profile Summary

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#### Community Risk Profile Summary for Burlingame

Please note: Estimates in this report are preliminary and have not yet been reviewed for accuracy.

|                               |                             |                            |
|-------------------------------|-----------------------------|----------------------------|
| <b>Population:</b>            | 28158                       |                            |
| <b>Year of Incorporation:</b> | 1908                        |                            |
| <b>Population Density:</b>    | 5120 persons per sq mile    |                            |
| <b>Data Sources</b>           | <b>Counts &amp; Surveys</b> | City of Burlingame website |
|                               | <b>Plans and Histories</b>  |                            |
|                               | <b>Field Work</b>           | Selected sample areas      |
|                               | <b>Google Earth</b>         | Google Earth               |

#### Total Number of Buildings:

Single Family Residences:

Multi-Family Residences:

Other Private Buildings:

City Buildings:

#### Total number of concrete buildings:

#### Total number of pre-1980 buildings:

#### Total Square Footage:

|                                                     |     |
|-----------------------------------------------------|-----|
| <b>Total Number of Pre-1980 Concrete Buildings:</b> | 240 |
|-----------------------------------------------------|-----|

#### Total Square Footage of Pre-1980 Concrete Buildings:

(\* Concrete Coalition will provide counts for public schools, OSHPD-regulated hospitals and State of CA buildings)

|                                    |                           |
|------------------------------------|---------------------------|
| <b>Attached Files (see below):</b> | 1) TelleenBurlingame2.pdf |
|------------------------------------|---------------------------|

## **Reporter's Information**

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# Concrete Coalition: Burlingame, CA

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# Answers

| Burlingame, CA                     |        |
|------------------------------------|--------|
| Category                           | Number |
| Total Number of Buildings          | 7,500  |
| Total Number of Concrete Buildings | 300    |
| Pre-1980 Buildings                 | 6,000  |
| Pre-1980 Concrete Buildings        | 240    |

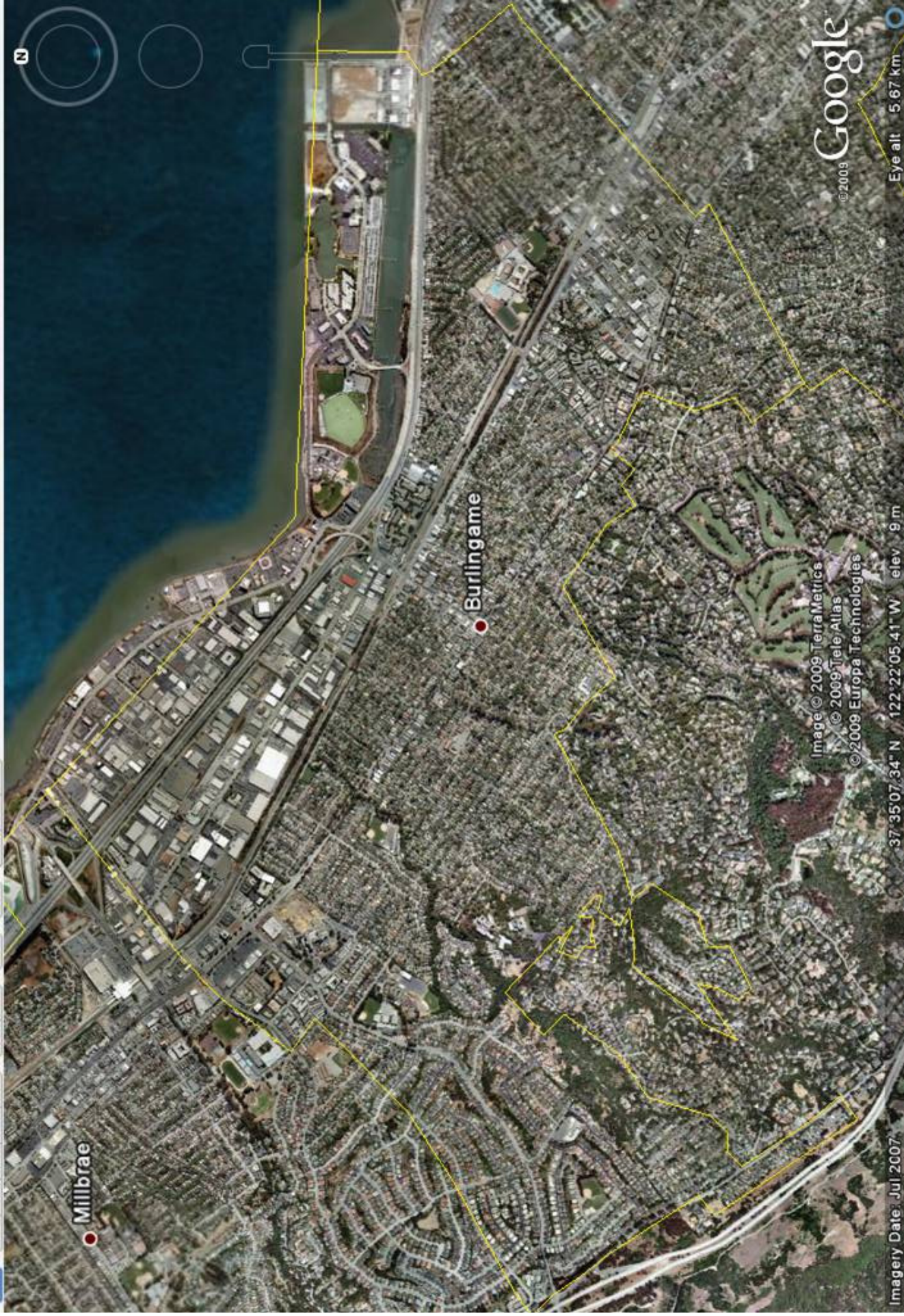
# Approach

## Burlingame, CA

|                                                                                                                                                                                                                |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Use Google Earth to define city limits                                                                                                                                                                         |  |
| Use Google Earth satellite image to visually identify areas of possible concrete buildings (i.e. exclude areas that are clearly wood single-family homes)                                                      |  |
| Print out satellite images of identified areas for field work                                                                                                                                                  |  |
| Drive through identified areas and determine typical use and construction types for each area; circle buildings that appear to be pre-1980 concrete (mark X on buildings that appear to be post-1980 concrete) |  |
| Estimate percentage of buildings in each area that are pre-1980 concrete (and post-1980 concrete)                                                                                                              |  |
| Use Google Earth satellite image to count total number of buildings in identified areas; calculate numbers of concrete buildings in each area by multiplying total number of buildings by percentage concrete  |  |
| Estimate total number of buildings in uncounated areas (single-family residential) based on City of Burlingame web site data                                                                                   |  |
| Sum totals                                                                                                                                                                                                     |  |



## Burlingame city limits – from Google Earth



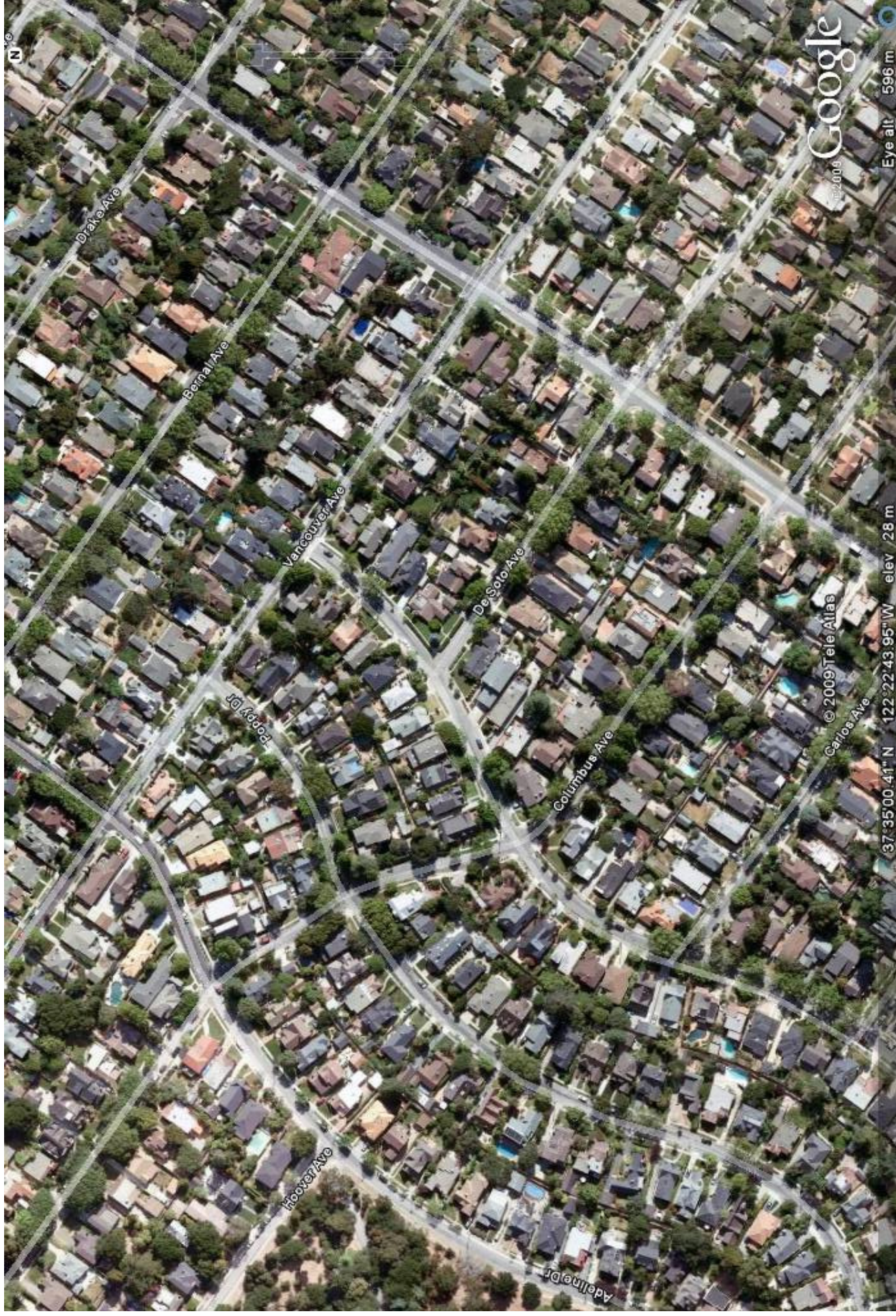


Areas and locations of possible concrete buildings  
(based on scanning in Google Earth for non-single-family-home-looking roofs)





Example single-family residential area  
(assume no concrete buildings, except those marked with pins above)





Example location of possible concrete building(s)





Area 1: Hwy 101 to Old Bayshore Hwy, Millbrae to Airport Blvd.  
Industrial (some concrete, more tilt-up) and hotels (concrete)





Area 2: Hwy 101 to Rollins Rd, Murchison to Broadway  
Industrial (concrete or tilt-up), some apartments (wood, CMU)





Area 3: Carolan to Rollins, Broadway to Majilla(?)  
Apartments (wood, CMU), a few auto dealership buildings (concrete)



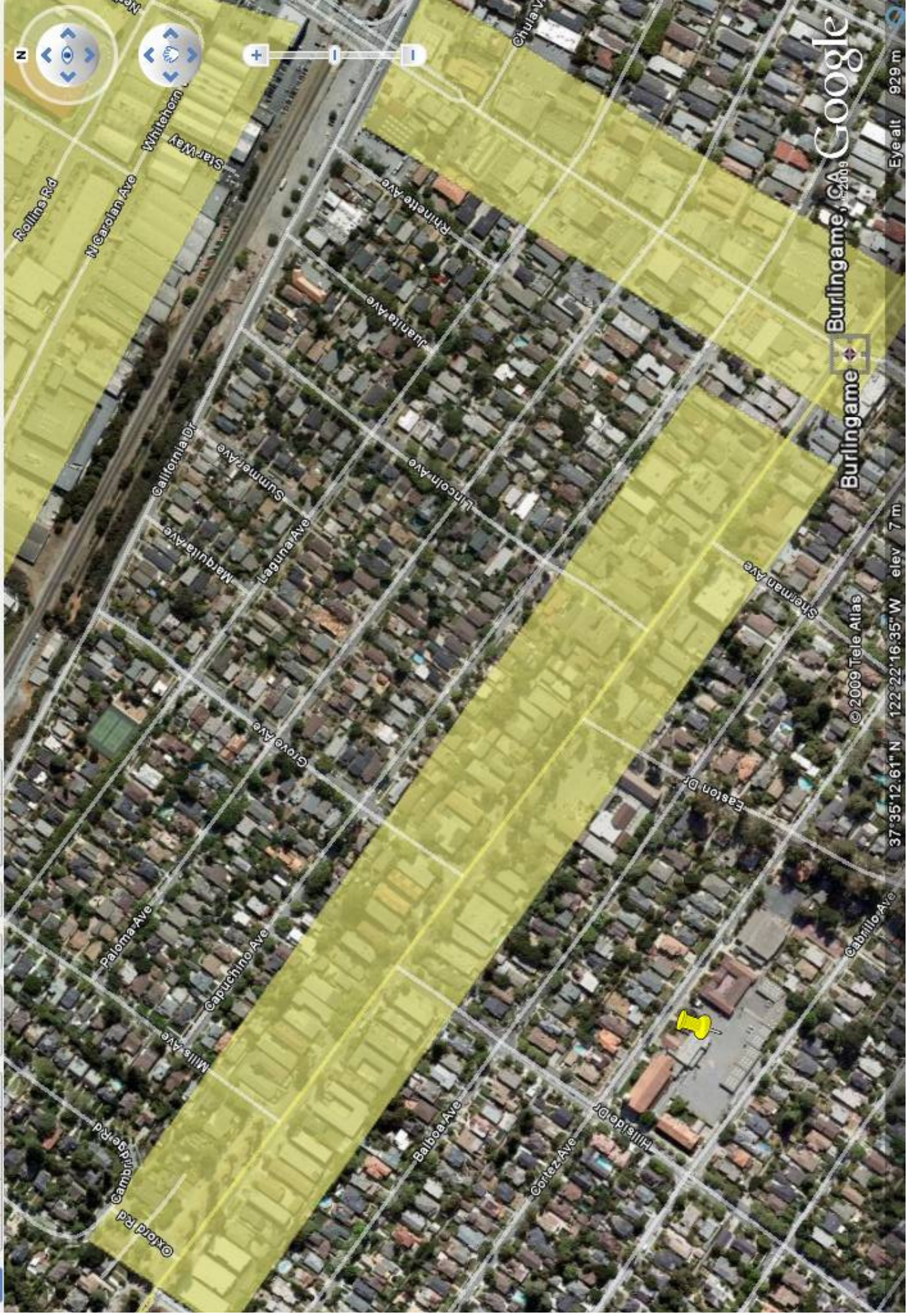


Area 4: California to Sequoia, Murchison to Davis  
Peninsula Hospital (old concrete, new steel), offices, commercial, apartments





Areas 5 and 6: El Camino @ Adeline to Brodaway @ California  
Area 5: apartments (wood); Area 6: commercial (concrete, CMU)





Area 7: El Camino to California, Oak Grove to Chapin  
Apartments (wood, CMU)





Areas 8 and 9: El Camino to California/Railroad, Chapin to Bayswater  
Commercial and Auto-Row (concrete, CMU)





## Areas 10 and 11: Aiprort Blvd near Anza Hotels (concrete), industrial





# Data

| Burlingame buildings               |                   |                    |                        |
|------------------------------------|-------------------|--------------------|------------------------|
|                                    | Pre-1980 concrete | Post-1980 concrete | Total                  |
| Area 1:                            | 60 (45%)          | 20 (15%)           | 130                    |
| Area 2:                            | 40 (30%)          | 13 (10%)           | 130                    |
| Area 3:                            | 3 (12%)           | 1 (4%)             | 25                     |
| Area 4:                            | 15(20%)           | 1 (1%)             | 75                     |
| Area 5:                            | 0                 | 0                  | calc'd with other res. |
| Area 6:                            | 18 (45%)          | 2 (5%)             | 40                     |
| Area 7:                            | 2 (2%)            | 0                  | 120                    |
| Area 8:                            | 80 (40%)          | 20 (10%)           | 200                    |
| Area 9:                            | 1 (4%)            | 0                  | 25                     |
| Area 10:                           | 4 (45%)           | 1 (10%)            | 9                      |
| Area 11:                           | 5 (60%)           | 0                  | 8                      |
| Other areas:<br>Single-family res. | 12                | 2                  | 6700                   |
| <b>Total:</b>                      | <b>240 (3%)</b>   | <b>60 (1%)</b>     | <b>7500</b>            |



# Calculations

Data from <http://www.burlingame.org/Index.aspx?page=900>

5.5 square miles

28,000 residents

13,000 dwelling units (52% are in multi-unit buildings)

Assume: average number of units in multi-unit buildings = 10

Estimate: total number of residential buildings

$$= 13,000 \times (1 - 0.52) + (13,000 \times 0.52) / 10 = 6,900$$

Subtract number of residential buildings in counted areas

$$= 6,900 - 11(A3) - 24(A4) - 118(A7) - 24(A9) = \mathbf{6,700}$$

Assume: ratio pre-1980 buildings : total buildings =

ratio pre-1980 concrete buildings : total concrete buildings

Estimate: number of pre-1980 buildings

$$= 7,500 \times (240 / 300) = \mathbf{6,000}$$