

California High-Speed Rail Authority

# ***Bakersfield to Palmdale*** ***Project Section***

**Draft Project Environmental Impact  
Report/Environmental Impact  
Statement**

**Appendix 5-A: Environmental Justice Figures**

**November 2019**



The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

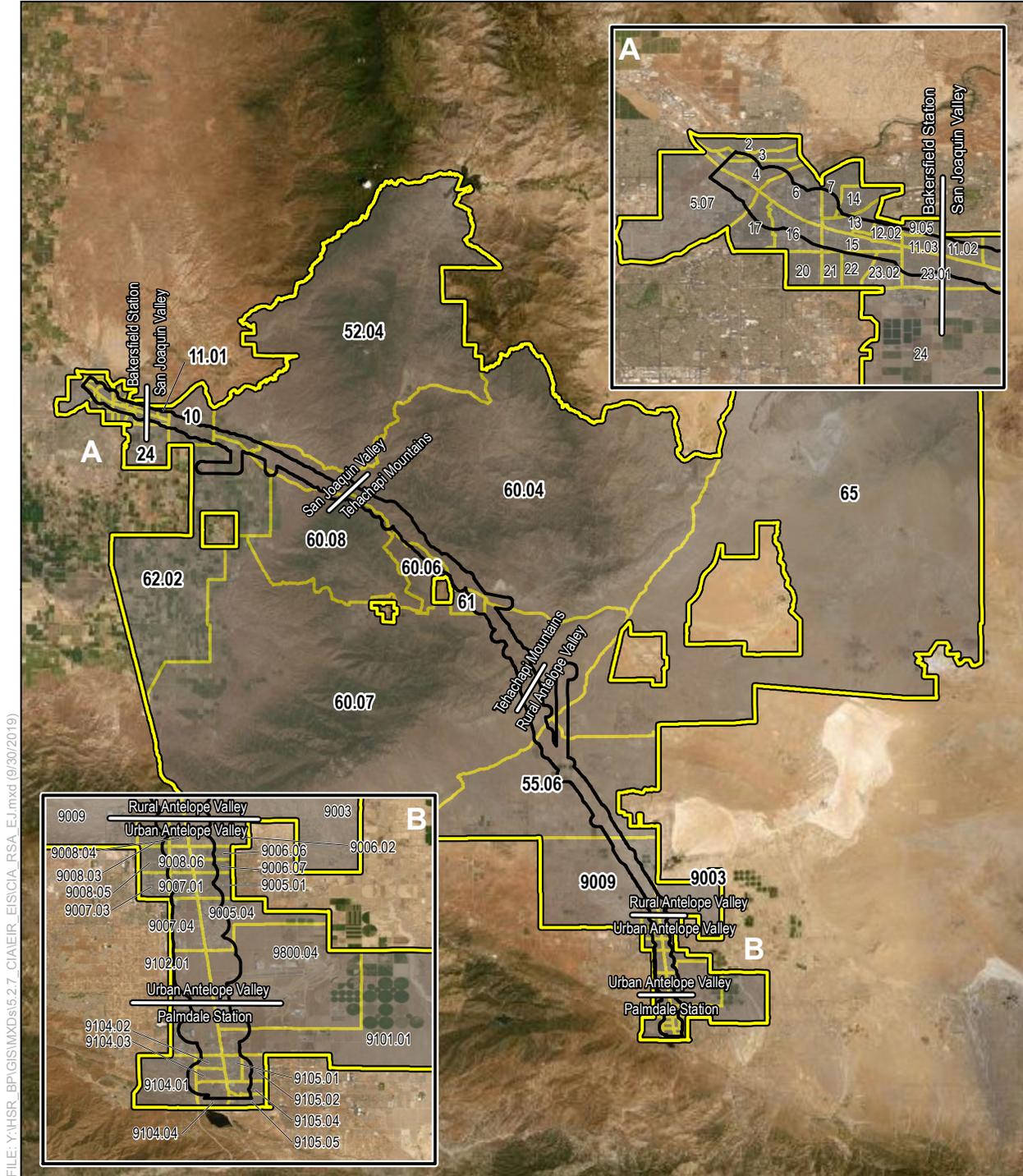
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## APPENDIX 5-A: FIGURES

This appendix contains detailed maps in support of the affected environment descriptions in Chapter 5, Environmental Justice. Specifically, this appendix contains the following figures:

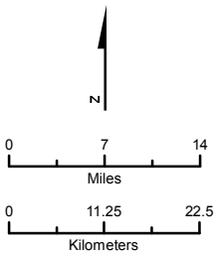
- Figure 5-A-1: Environmental Justice Resource Study Area (1 sheet)
- Figure 5-A-2: Minority Populations in the Environmental Justice Resource Study Area (13 sheets)
- Figure 5-A-3: Low-Income Populations in the Environmental Justice Resource Study Area (13 sheets)
- Figure 5-A-4: Low-Income and Minority Populations in the Resource Study Area (13 sheets)
- Figure 5-A-5: Facilities of Concern for Low-Income Populations in Lancaster (1 sheet)
- Figure 5-A-6: Operation-Phase Alternative 1 Noise Receptor Impacts - Low-Income and/or Minority Populations (12 sheets)
- Figure 5-A-7: Operation-Phase Alternative 2 Noise Receptor Impacts – Low-Income and/or Minority Populations (12 sheets)
- Figure 5-A-8: Operation-Phase Alternative 3 Noise Receptor Impacts – Low-Income and/or Minority Populations (12 sheets)
- Figure 5-A-9: Operation-Phase Alternative 5 Noise Receptor Impacts – Low-Income and/or Minority Populations (12 sheets)
- Figure 5-A-10: Operation-Phase - Bakersfield Station – F Street Station Noise Receptor Impacts – Low-Income and/or Minority Populations (2 sheets)

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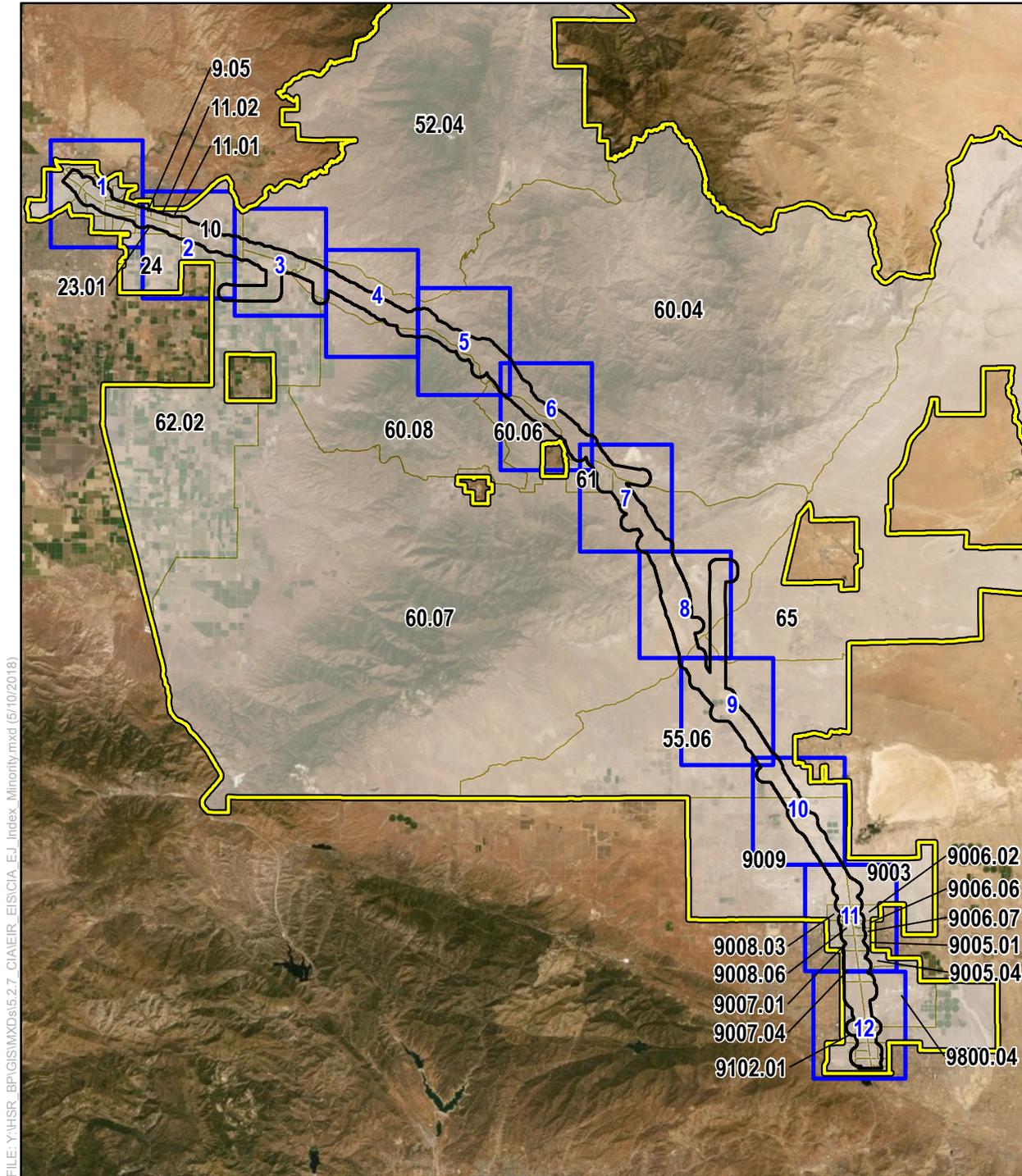
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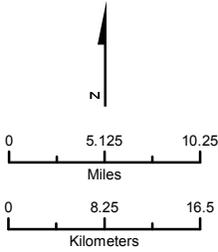
- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- 10.0 Census Tracts (with tract Numbers) Intersecting the RSA

**Figure 5-A-1**  
 Environmental Justice  
 Resource Study Area



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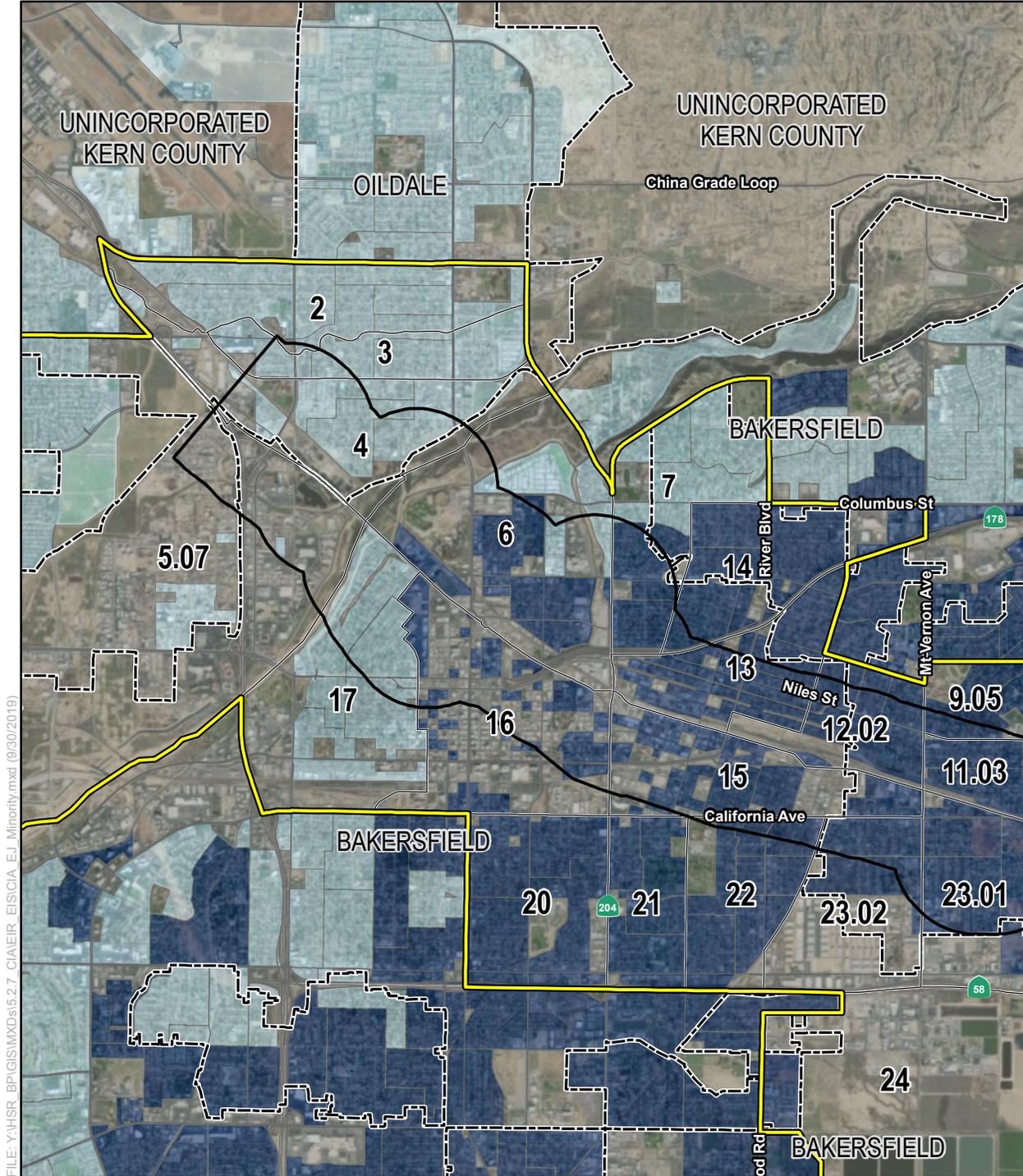
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- Minority Population Page Index
- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts Intersecting the RSA

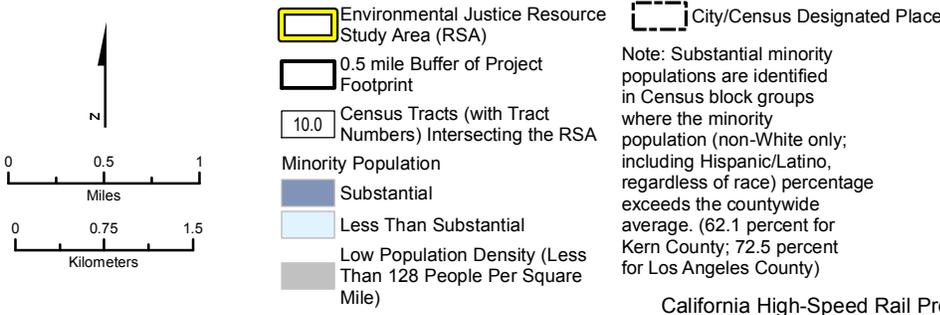
**Figure 5-A-2**

Minority Populations in the Environmental Justice Resource Study Area  
 Map Index for Pages 1-12



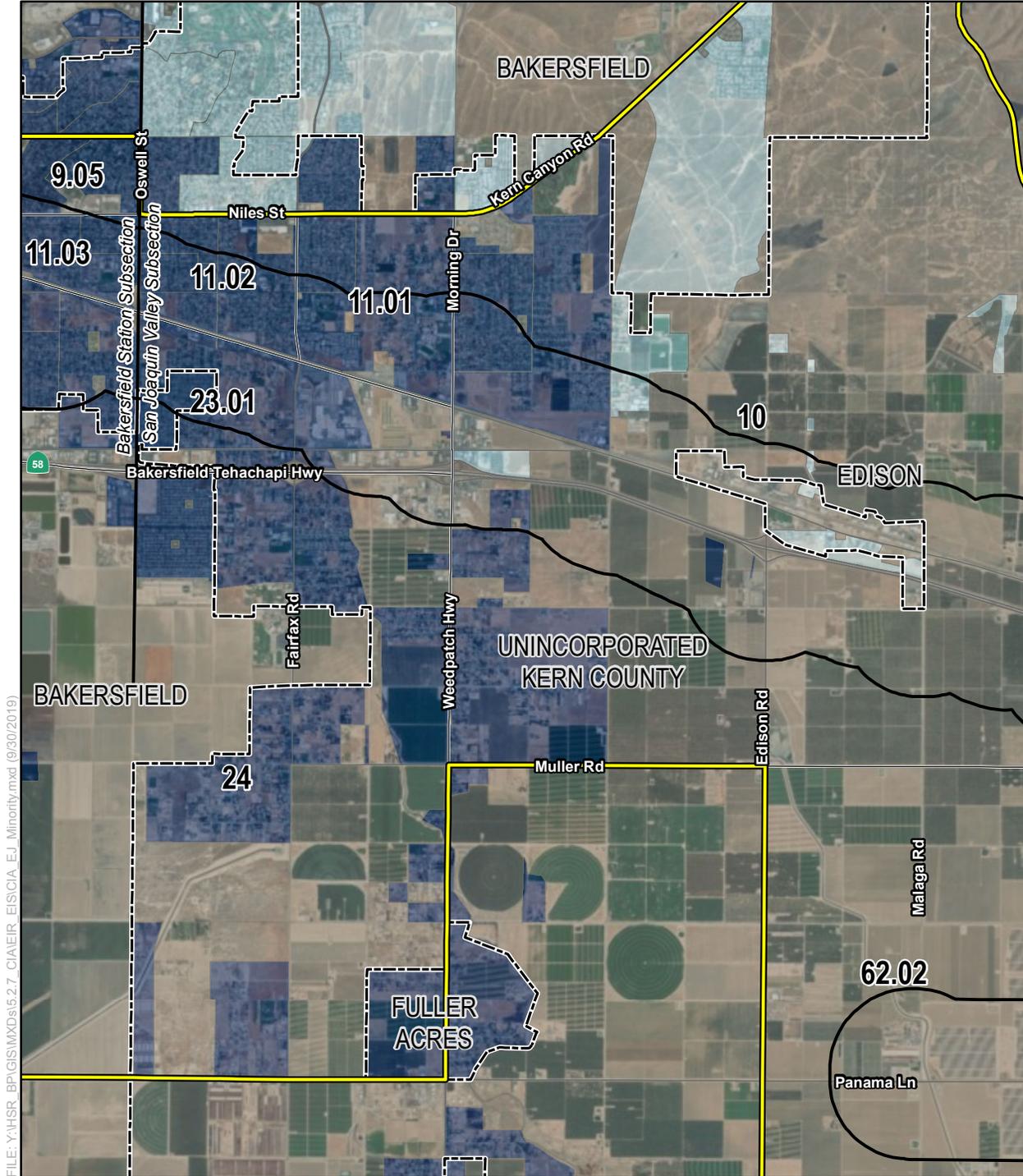
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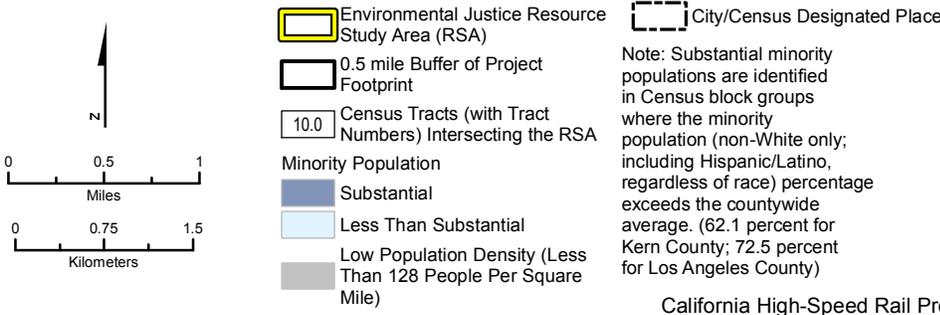
**Figure 5-A-2**

Minority Populations in the Environmental Justice Resource Study Area  
 Page 1 of 12



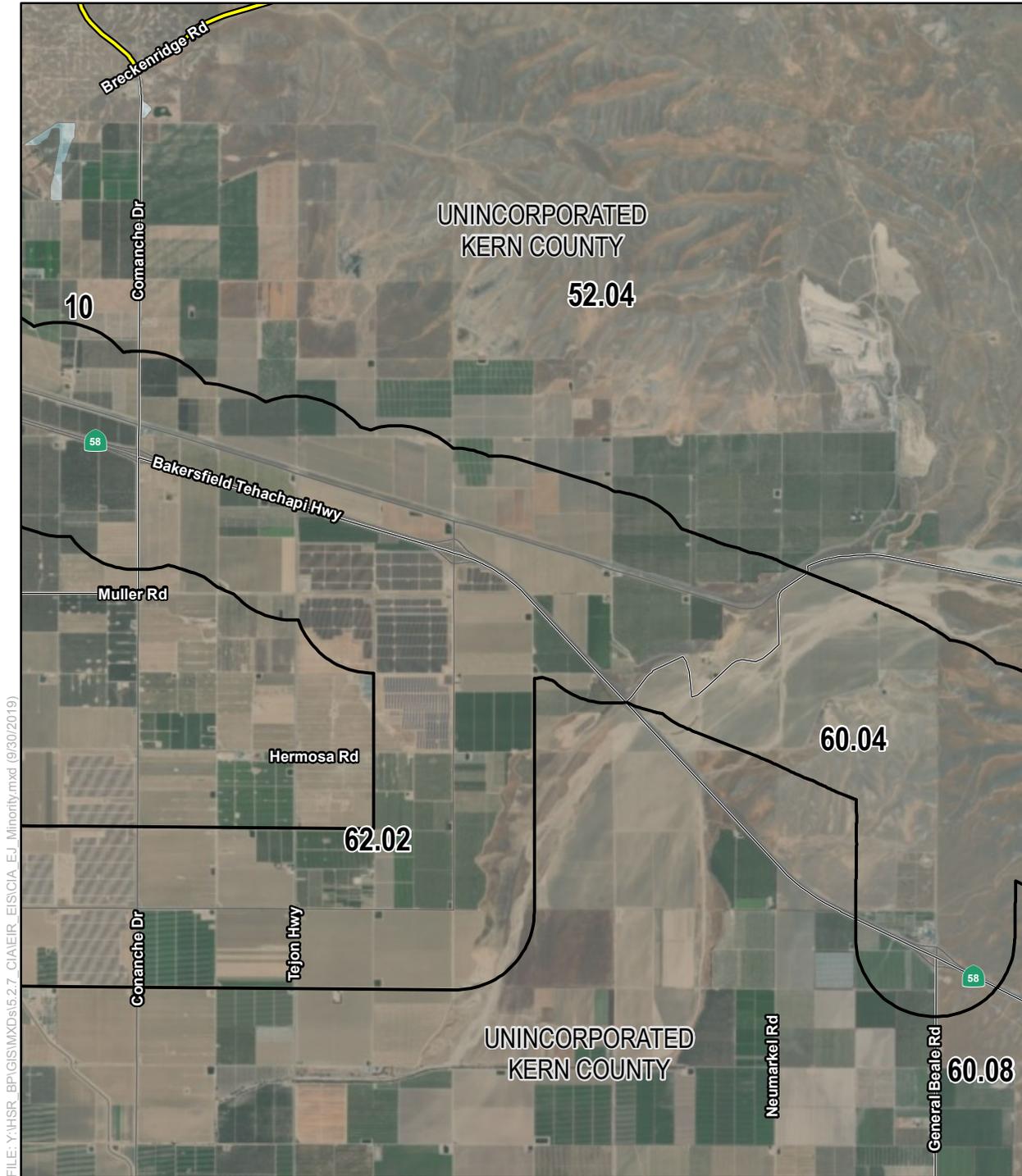
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**Figure 5-A-2**

Minority Populations in the Environmental Justice Resource Study Area  
 Page 2 of 12



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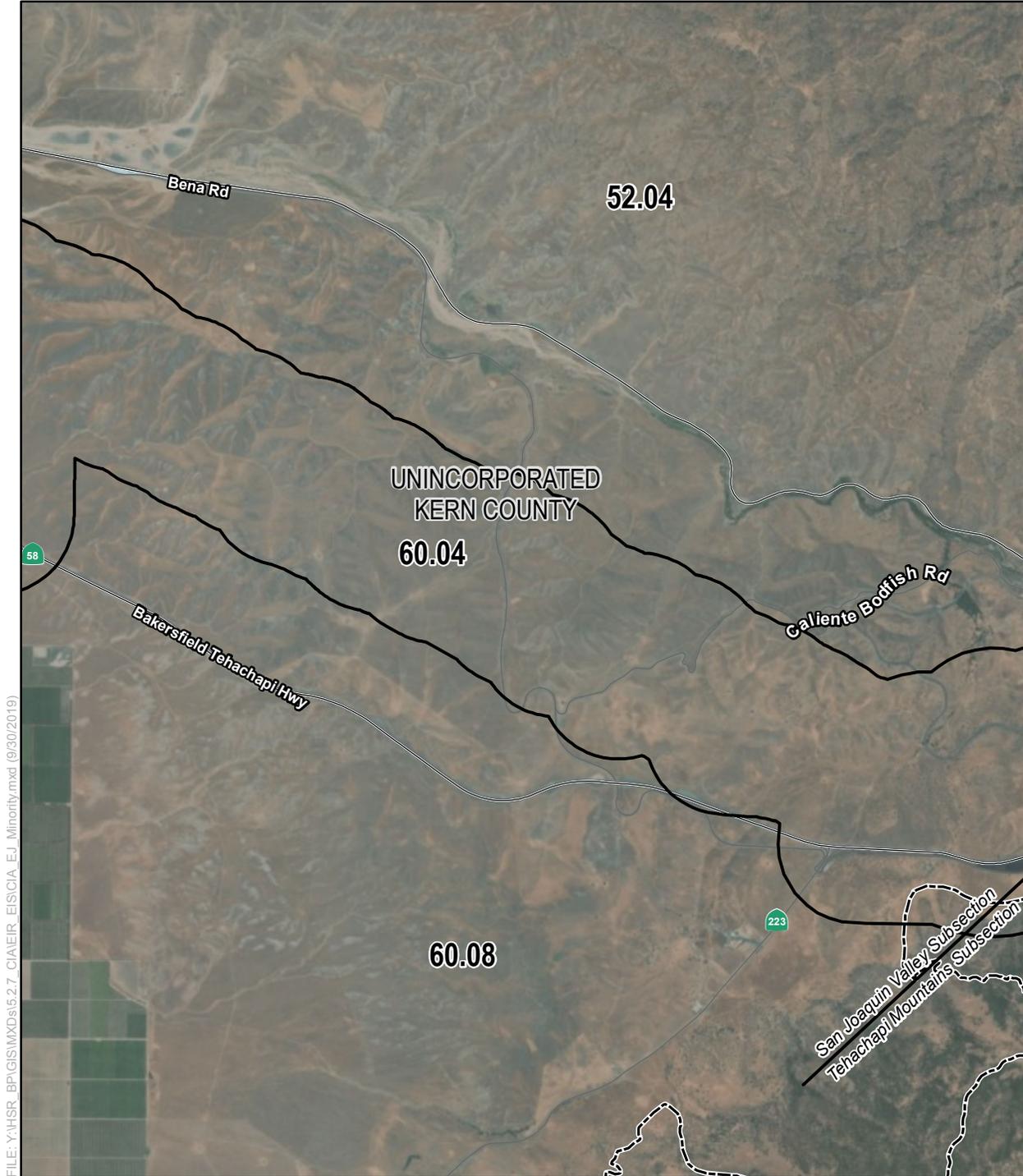
Minority Population

- Substantial
- Less Than Substantial
- Low Population Density (Less Than 128 People Per Square Mile)

- City/Census Designated Place

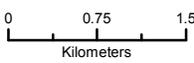
Note: Substantial minority populations are identified in Census block groups where the minority population (non-White only; including Hispanic/Latino, regardless of race) percentage exceeds the countywide average. (62.1 percent for Kern County; 72.5 percent for Los Angeles County)

**Figure 5-A-2**  
 Minority Populations in the Environmental Justice Resource Study Area  
 Page 3 of 12



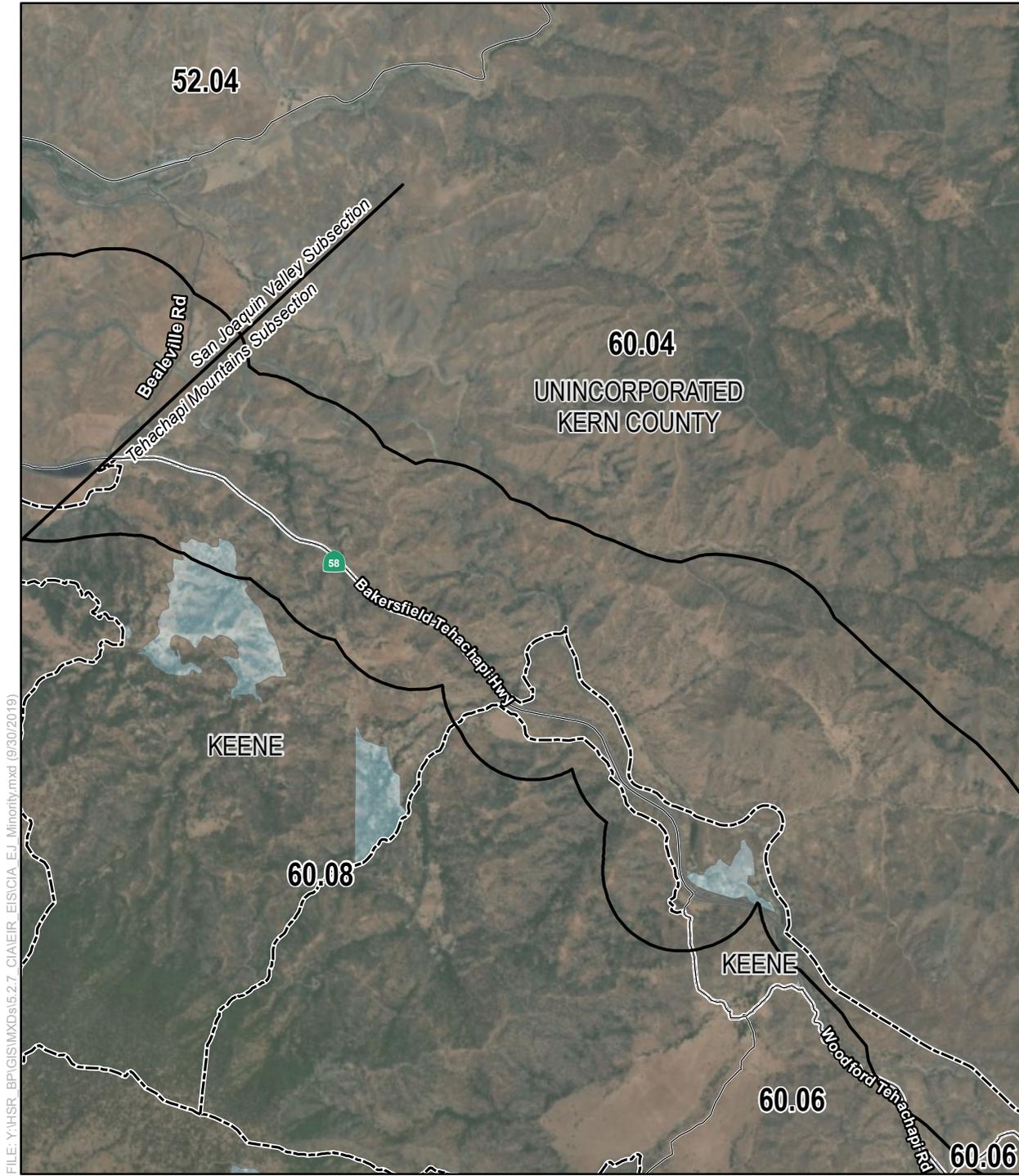
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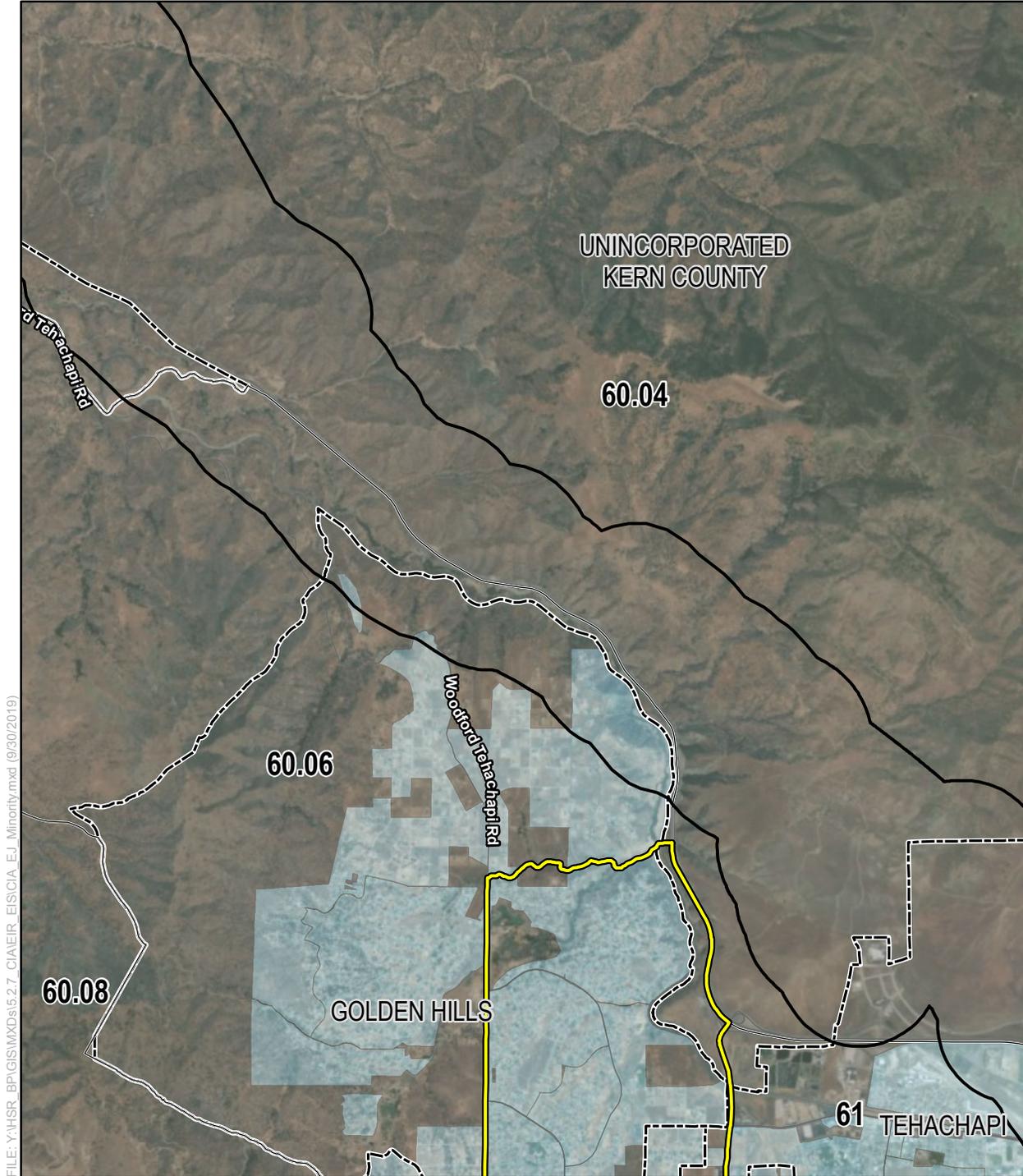
Minority Populations in the Environmental Justice Resource Study Area  
 Page 4 of 12



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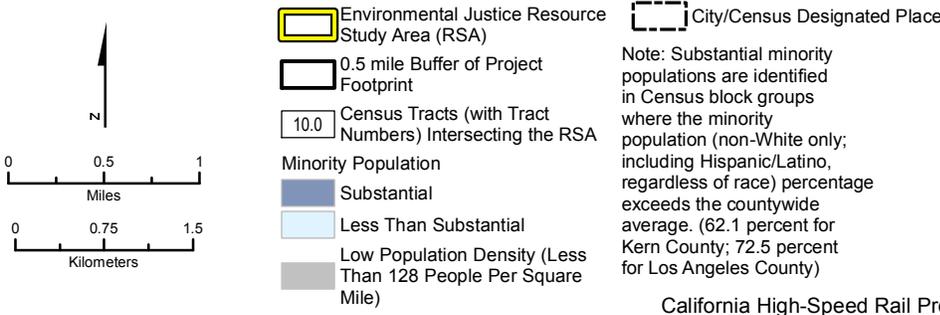
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  	Environmental Justice Resource Study Area (RSA)	City/Census Designated Place
	0.5 mile Buffer of Project Footprint	Census Tracts (with Tract Numbers) Intersecting the RSA
<p>Minority Population</p> Substantial		<p>Minority Populations in the Environmental Justice Resource Study Area</p>
Less Than Substantial		
Low Population Density (Less Than 128 People Per Square Mile)		<p>Page 5 of 12</p>



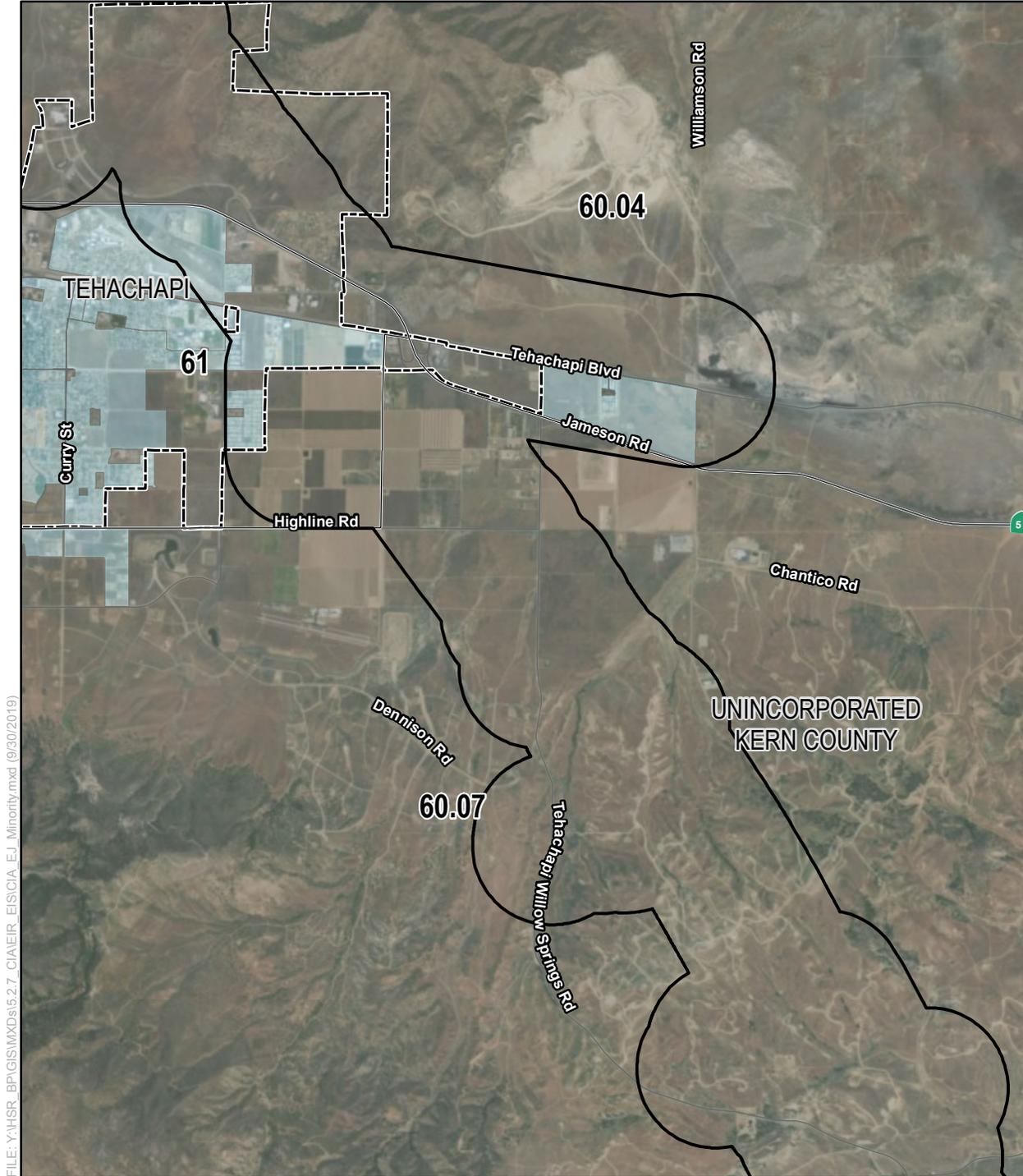
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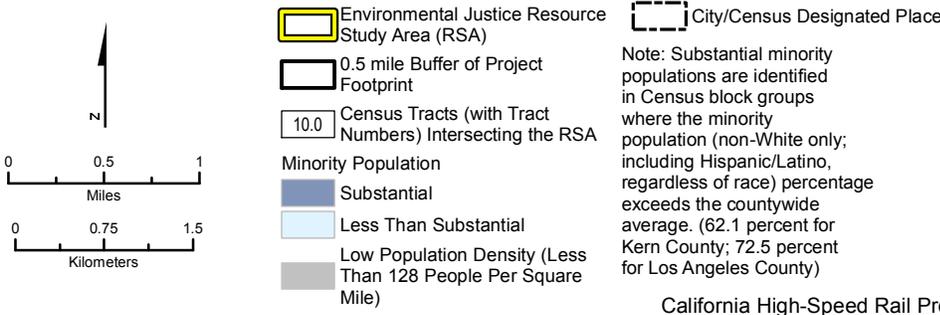
**Figure 5-A-2**

Minority Populations in the Environmental Justice Resource Study Area  
 Page 6 of 12



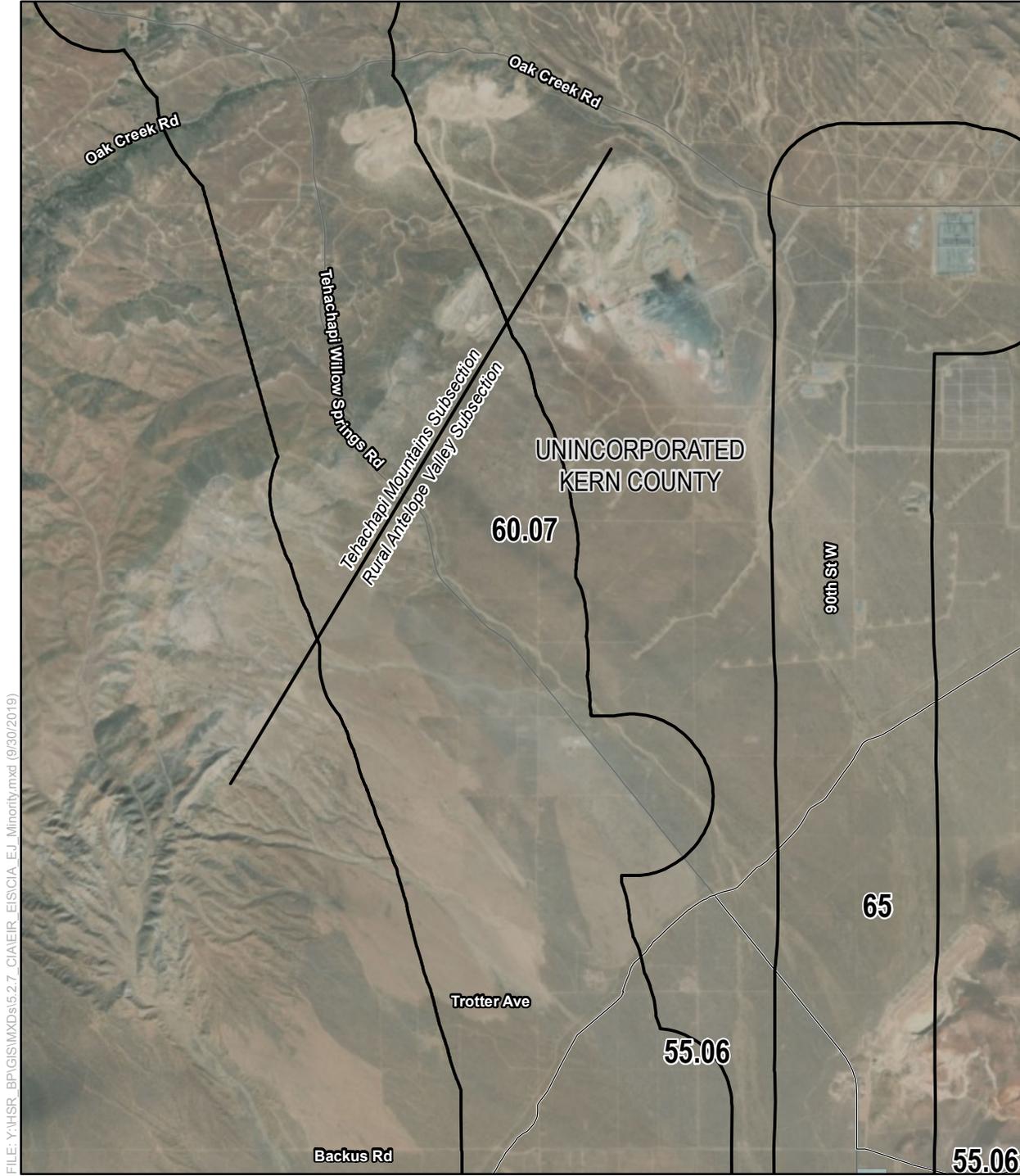
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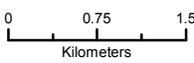
**Figure 5-A-2**

Minority Populations in the Environmental Justice Resource Study Area  
 Page 7 of 12



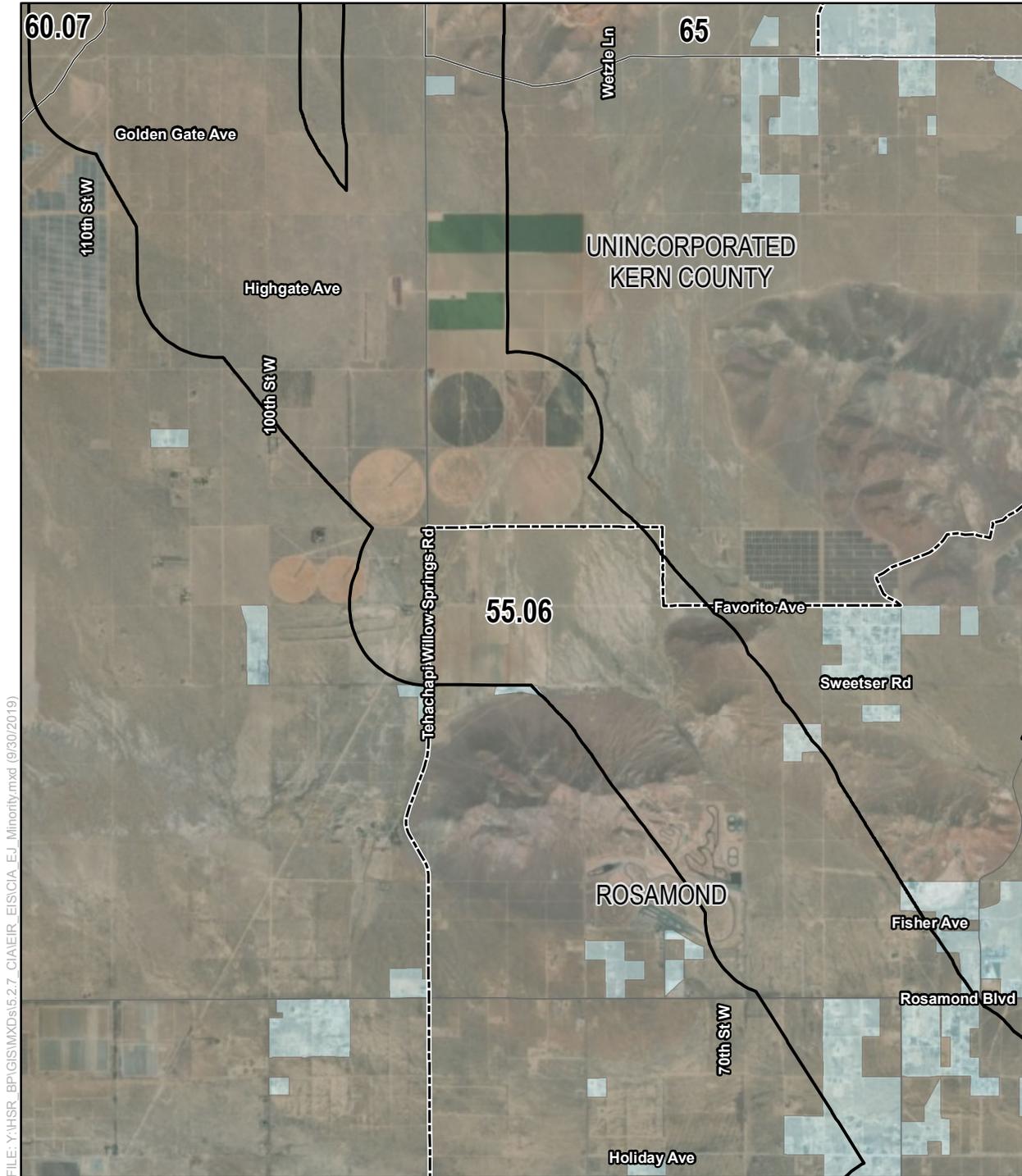
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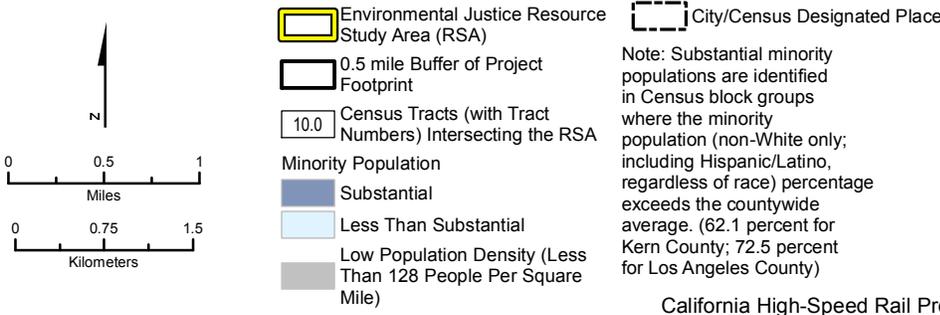
**Figure 5-A-2**

Minority Populations in the Environmental Justice Resource Study Area  
 Page 8 of 12



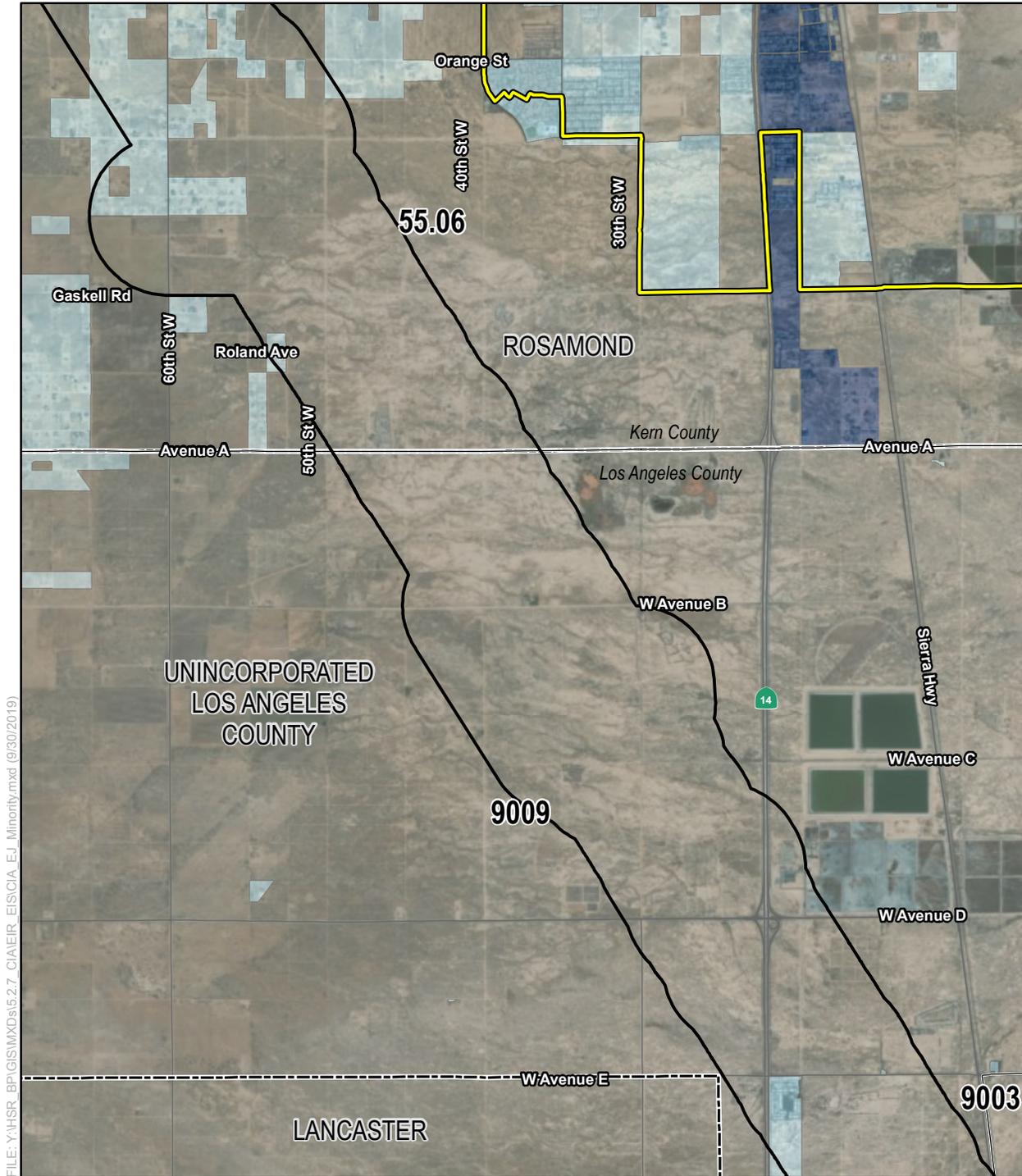
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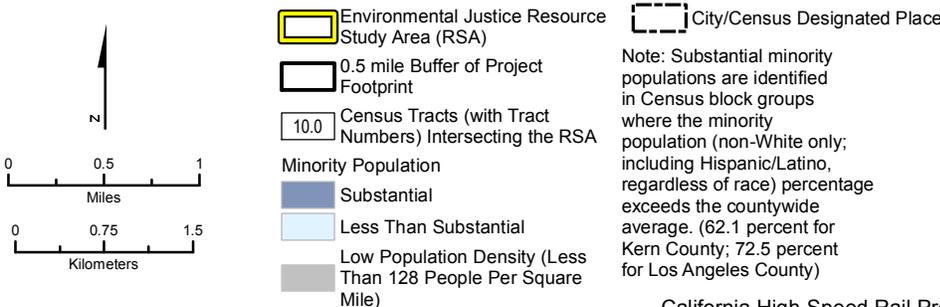
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Minority Populations in the Environmental Justice Resource Study Area  
 Page 9 of 12



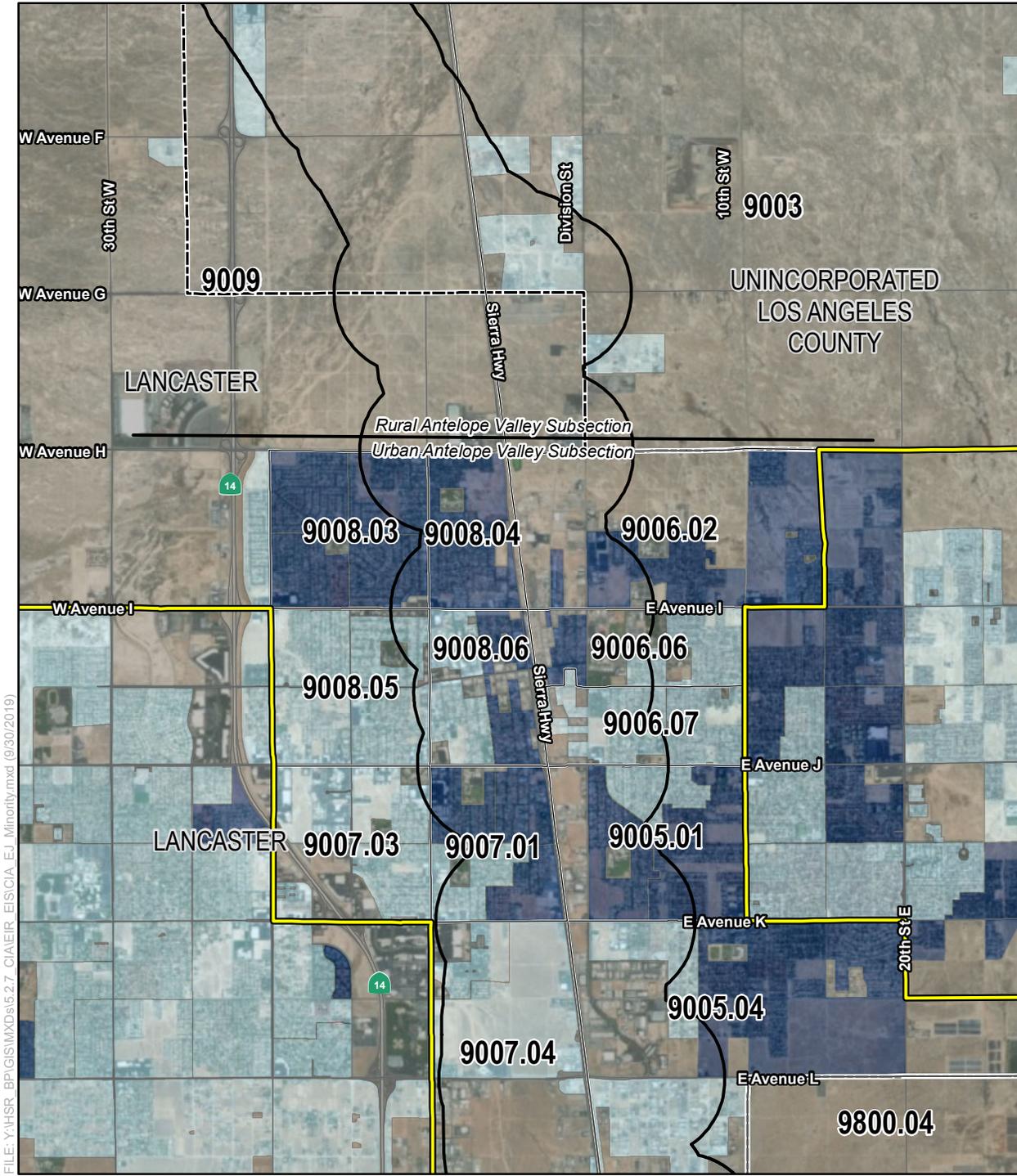
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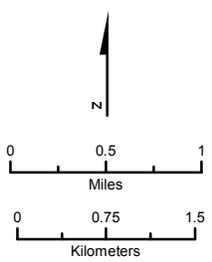
**Figure 5-A-2**

Minority Populations in the Environmental Justice Resource Study Area  
 Page 10 of 12



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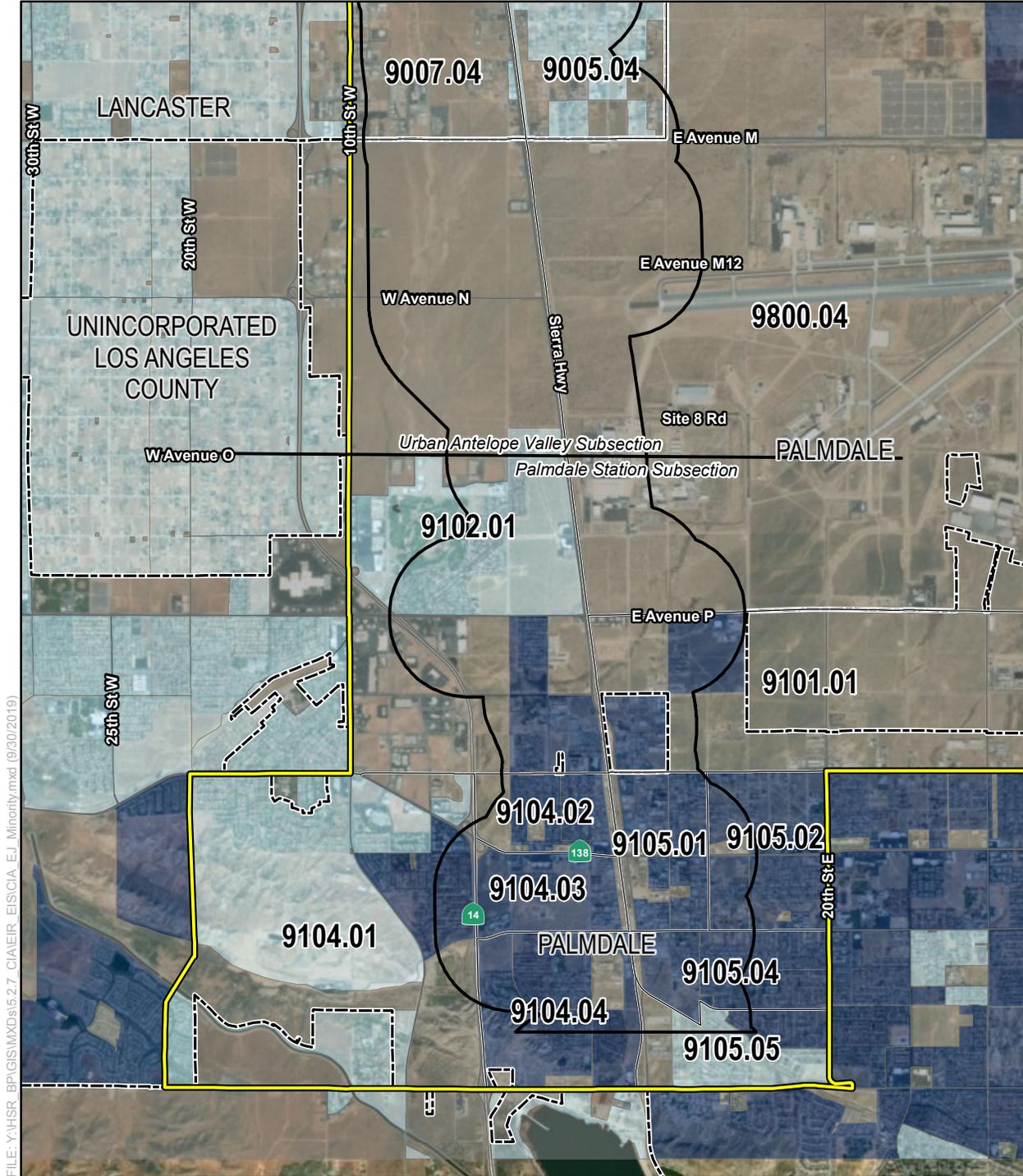
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  - Less Than Substantial
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  - City/Census Designated Place
- Note: Substantial minority populations are identified in Census block groups where the minority population (non-White only; including Hispanic/Latino, regardless of race) percentage exceeds the countywide average. (62.1 percent for Kern County; 72.5 percent for Los Angeles County)

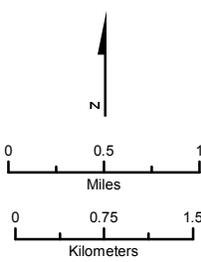
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Minority Populations in the Environmental Justice Resource Study Area



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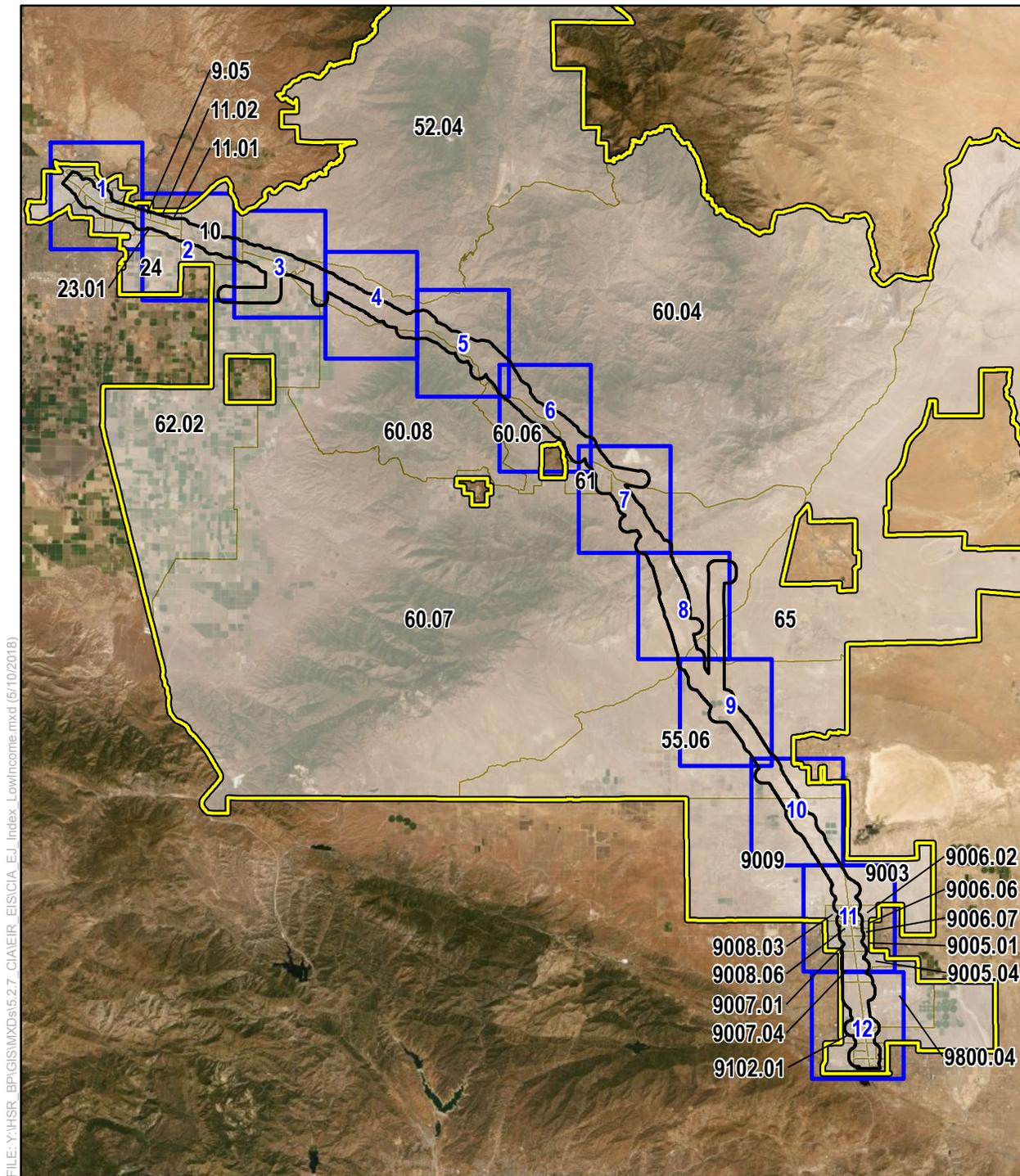
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**Figure 5-A-2**

Minority Populations in the Environmental Justice Resource Study Area  
 Page 12 of 12



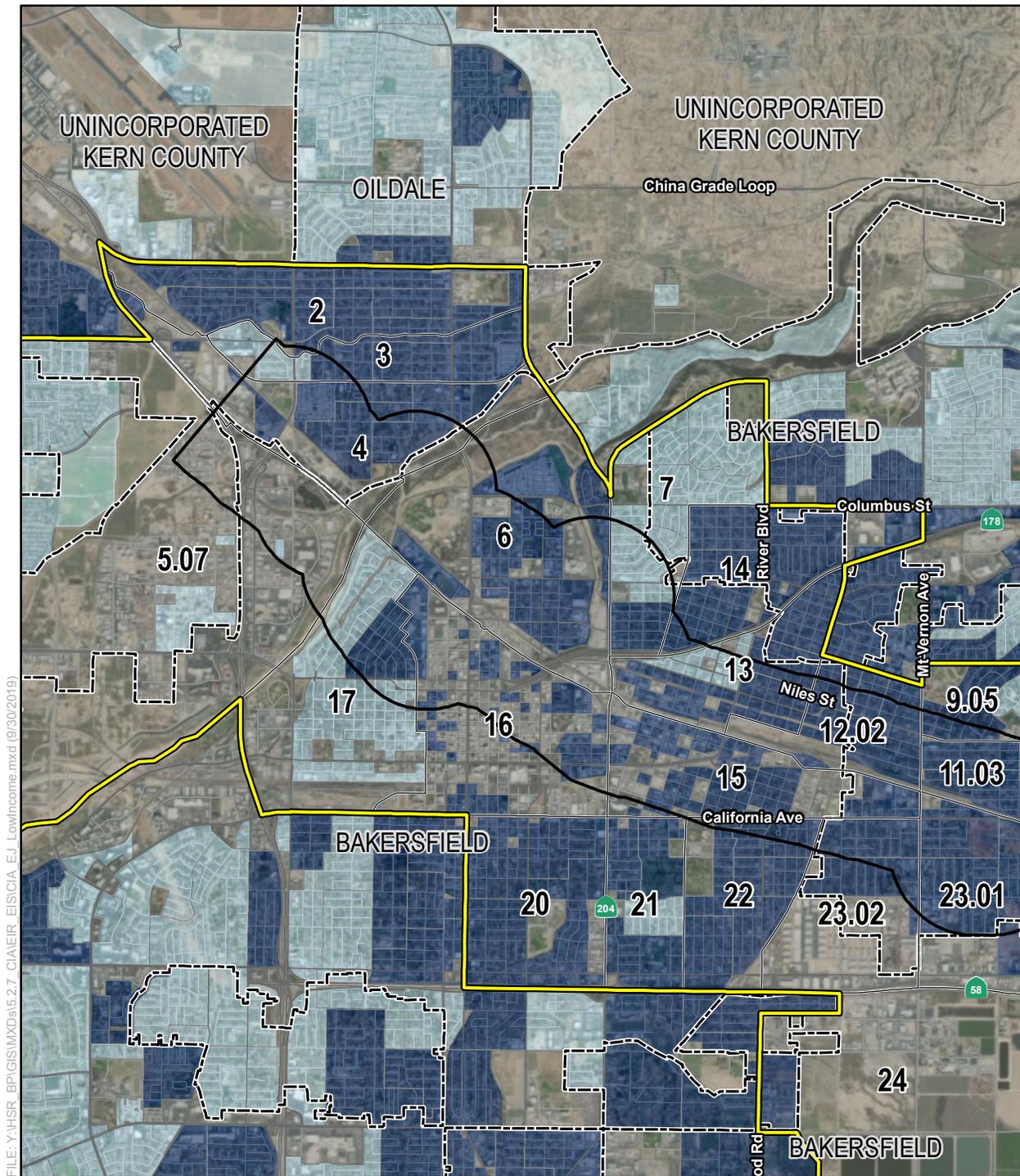
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 SOURCE: Esri Aerial Imagery (2015); CHSRA (4/2016); US Census Bureau American Community Survey (2009-2013)

- Low-Income Population Page Index
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- 0.5 mile Buffer of Project Footprint
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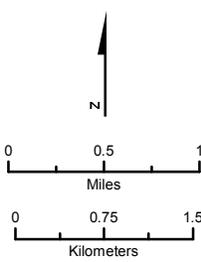
**Figure 5-A-3**

Low-Income Populations in the Environmental Justice Resource Study Area  
 Map Index for Pages 1-12



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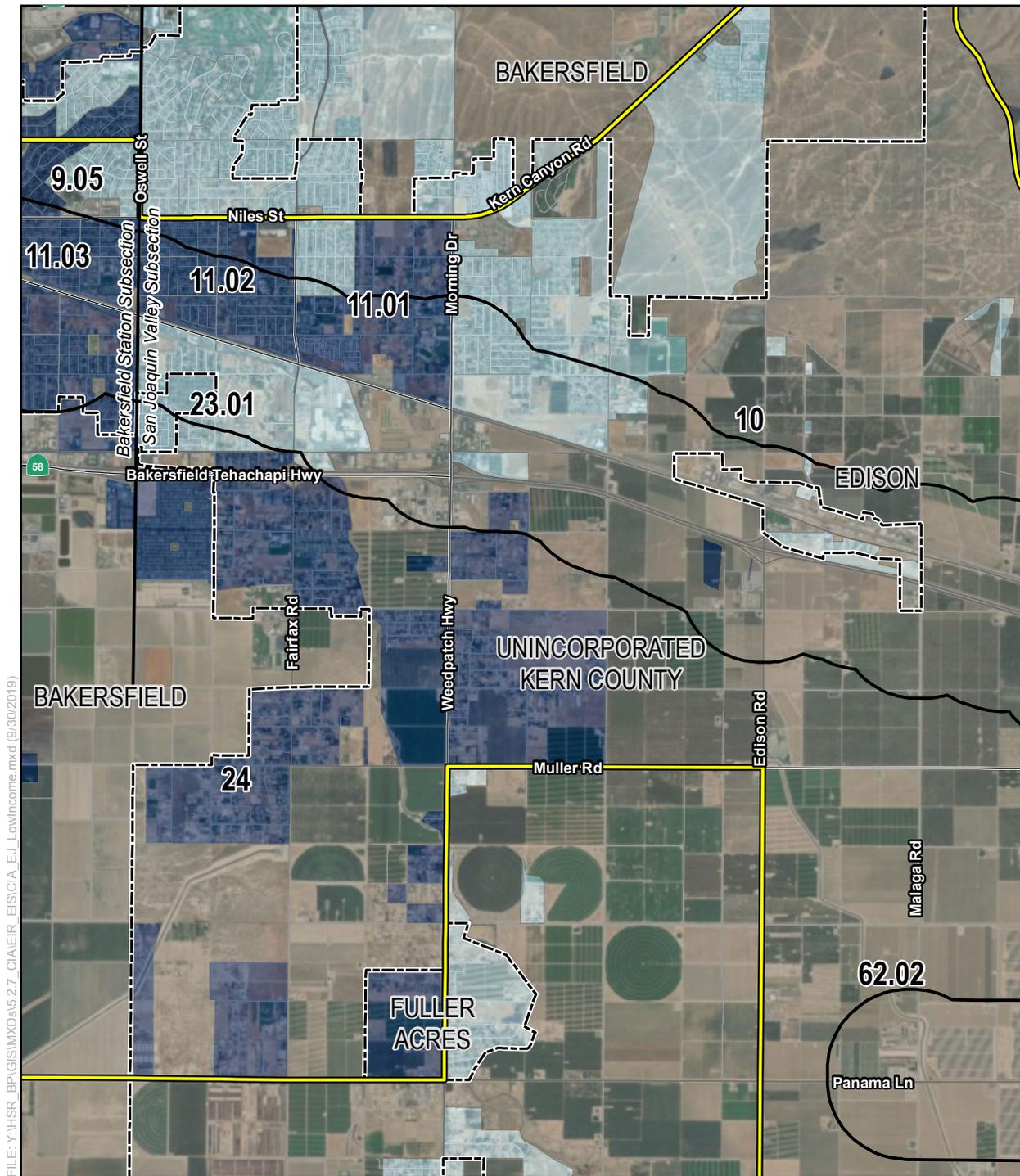


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City/Census Designated Place

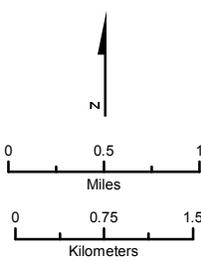
Note: Substantial low income populations are identified in Census block groups where the low income population percentage (income below the U.S. Census poverty threshold) exceeds the countywide average. (22.9 percent for Kern County; 17.8 percent for Los Angeles County)

**Figure 5-A-3**  
 Low-Income Populations in the Environmental Justice Resource Study Area  
 Page 1 of 12



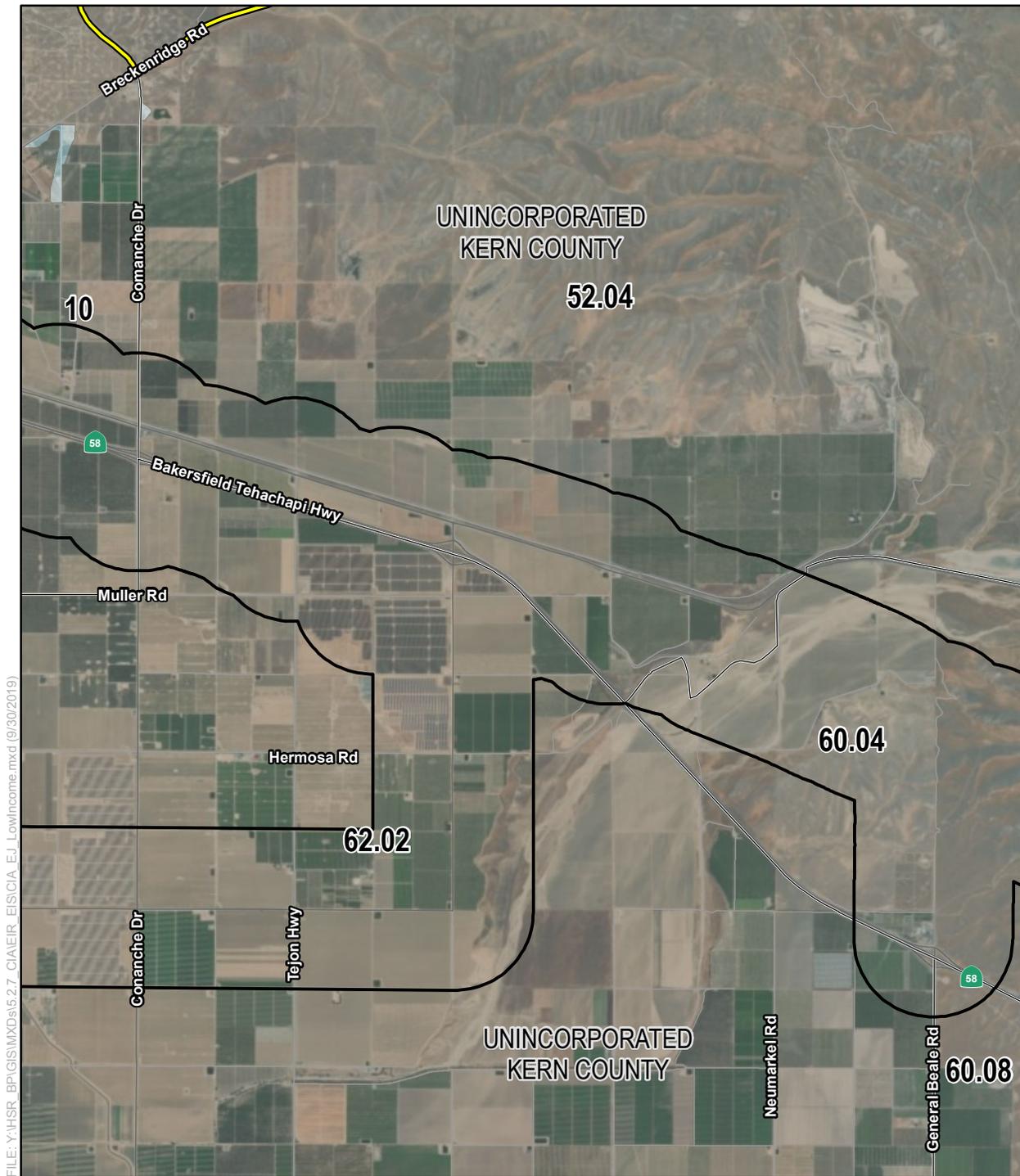
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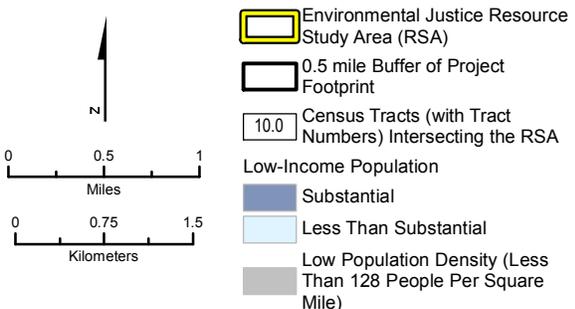
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**Figure 5-A-3**  
 Low-Income Populations in the Environmental Justice Resource Study Area  
 Page 2 of 12



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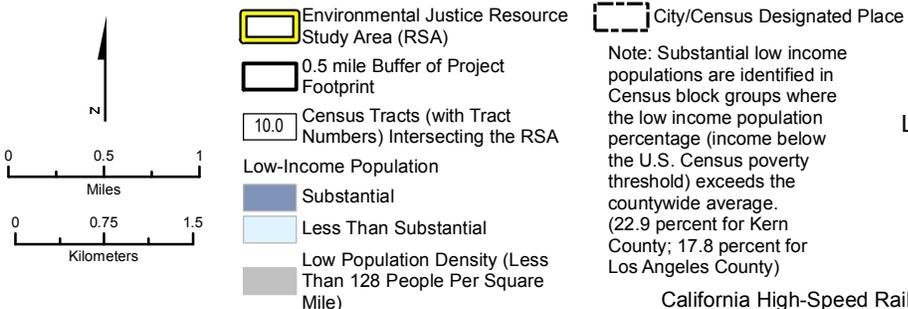
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**Figure 5-A-3**  
 Low-Income Populations in the Environmental Justice Resource Study Area  
 Page 3 of 12

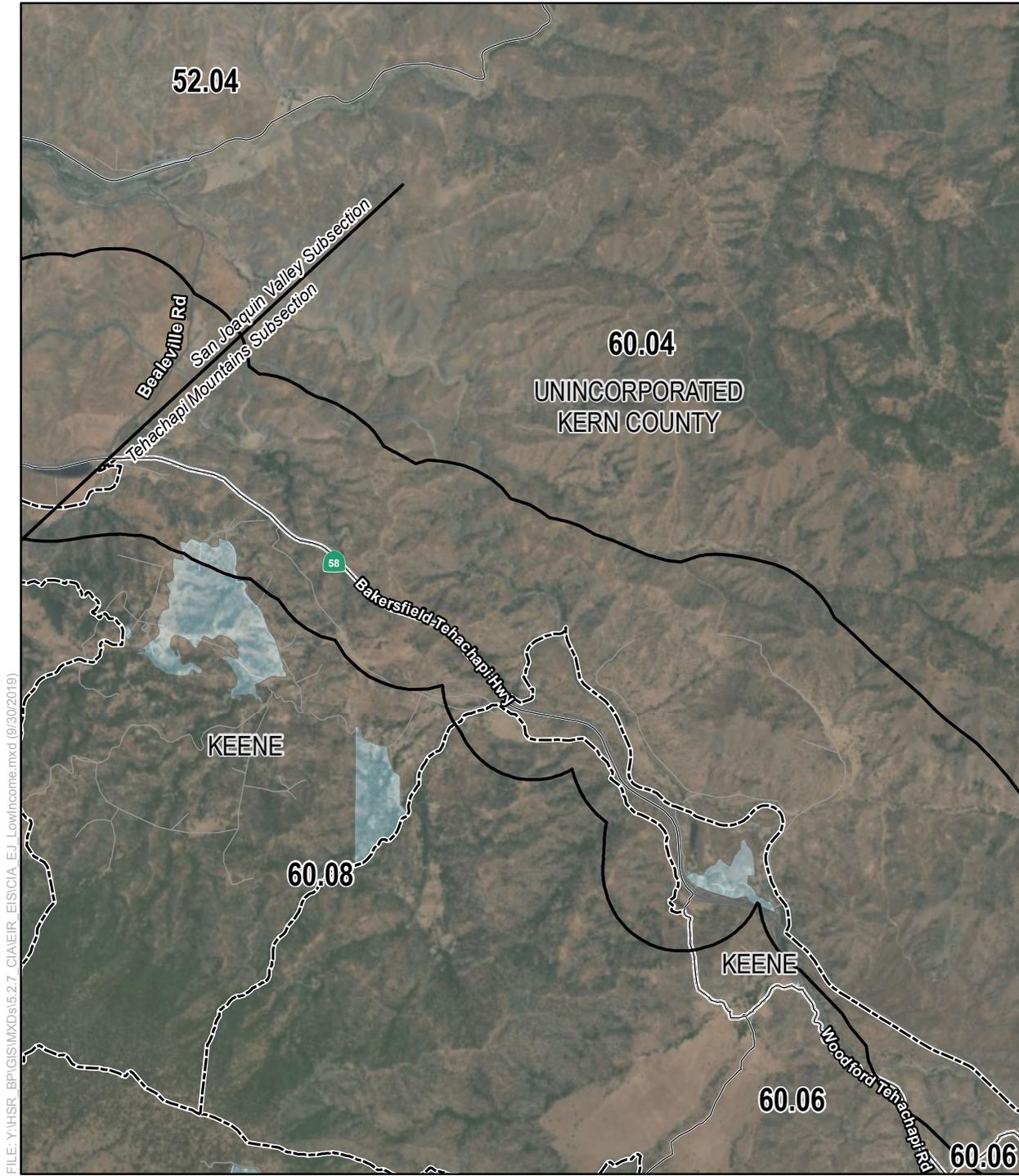


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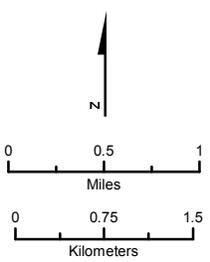


**Figure 5-A-3**  
 Low-Income Populations in the Environmental Justice Resource Study Area  
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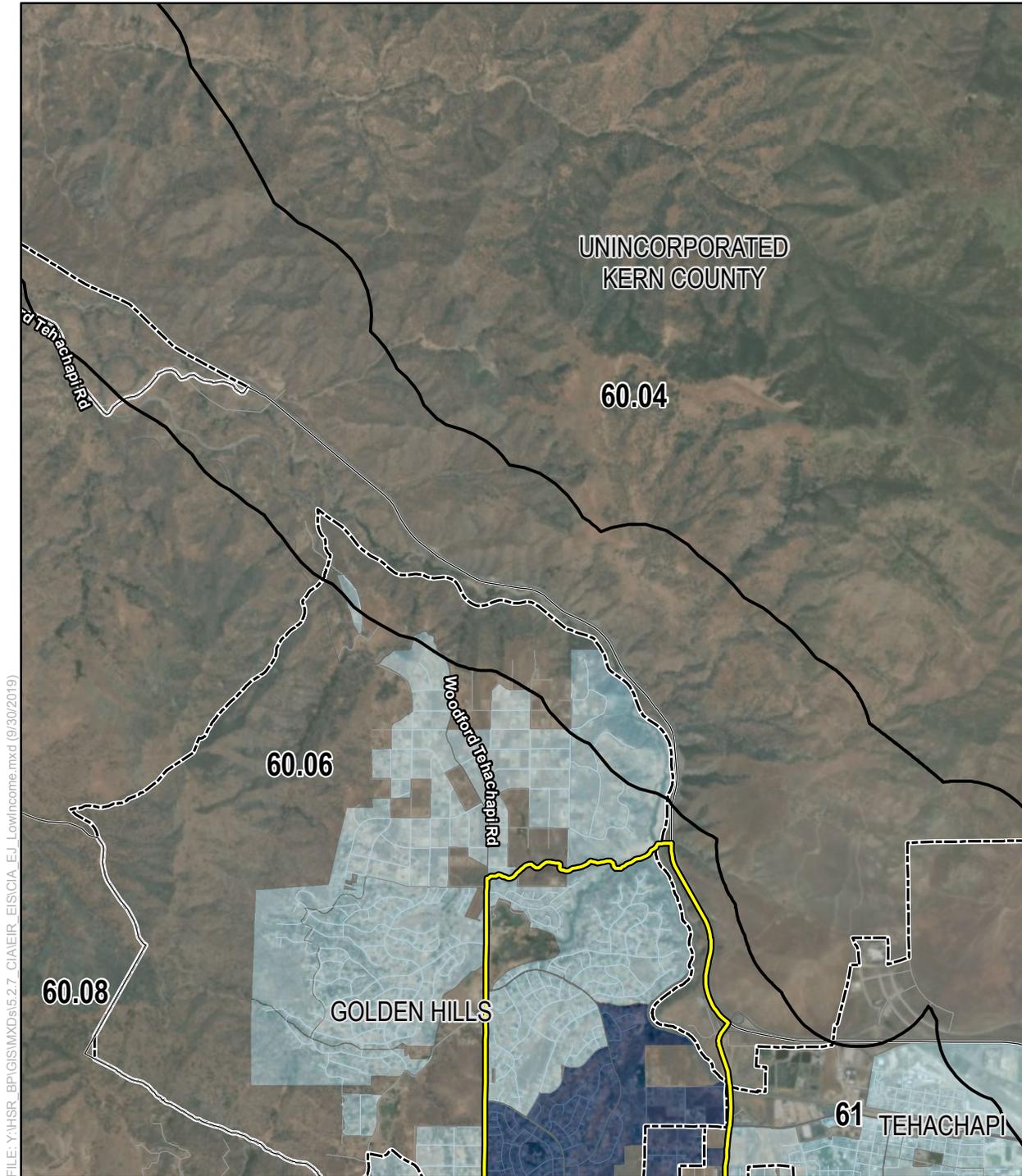


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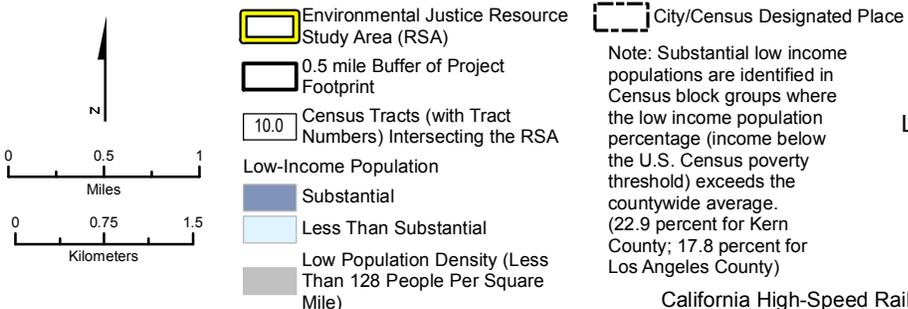
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 Page 5 of 12



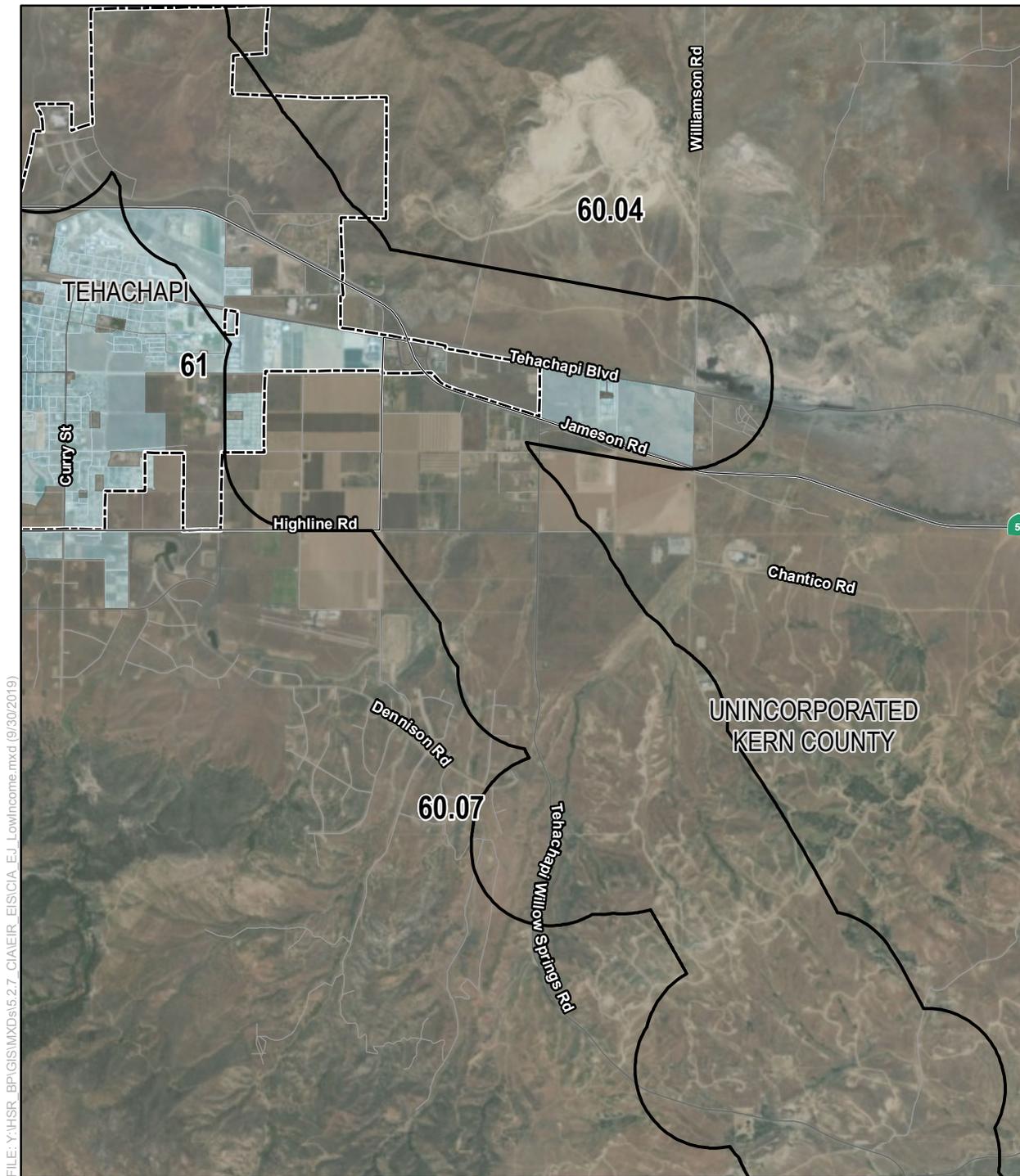
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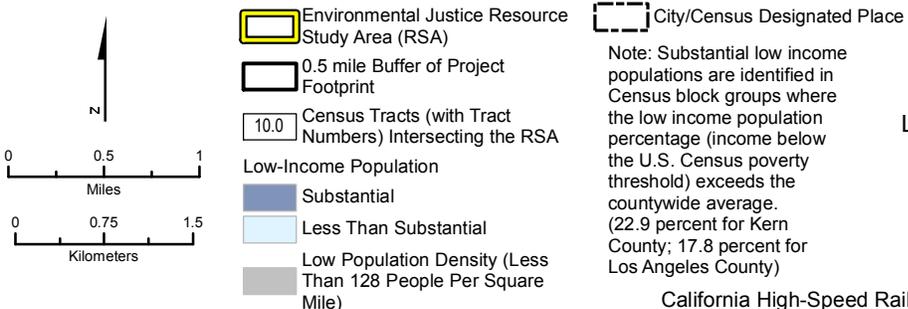
**Figure 5-A-3**

Low-Income Populations in the Environmental Justice Resource Study Area  
 Page 6 of 12



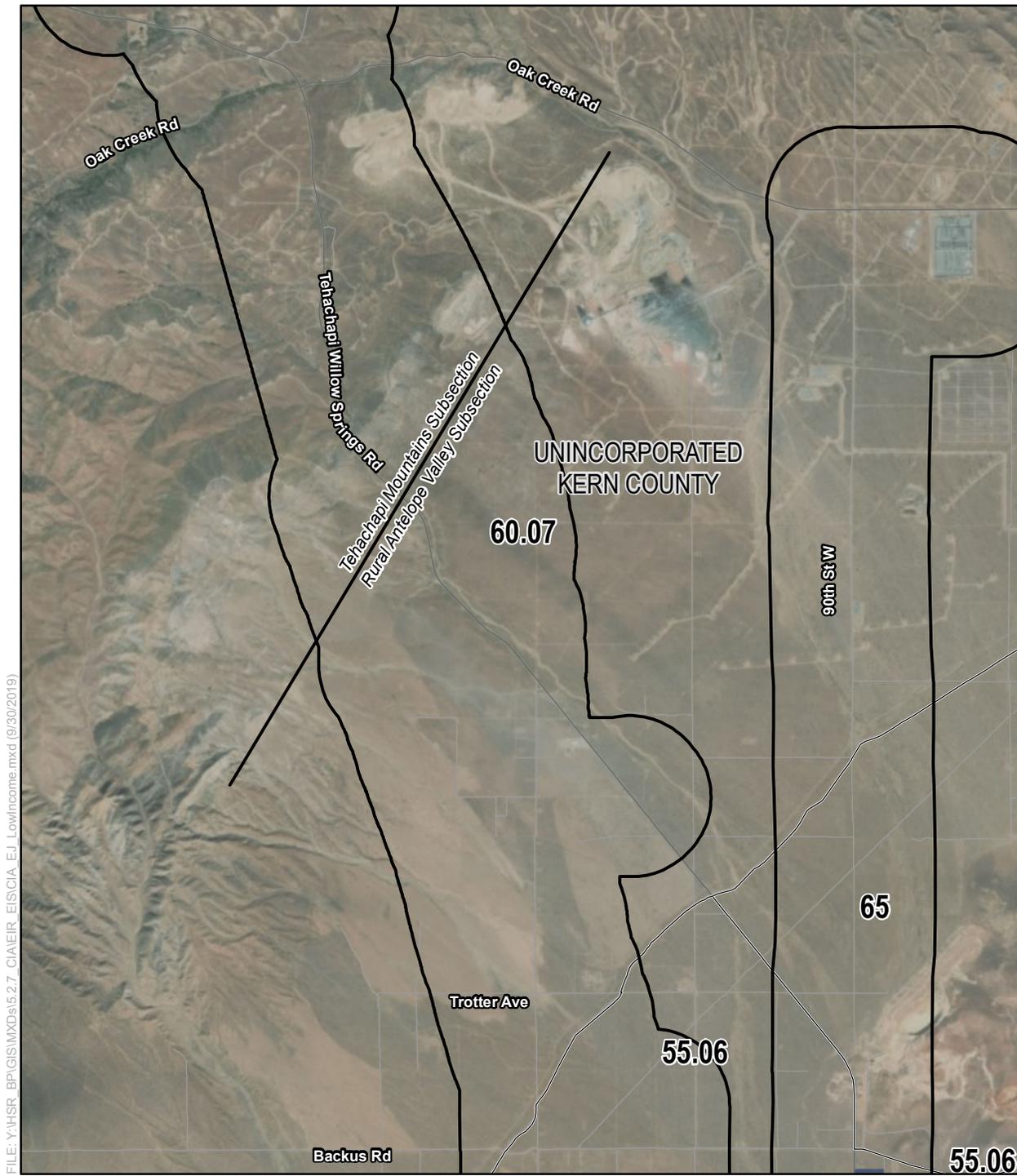
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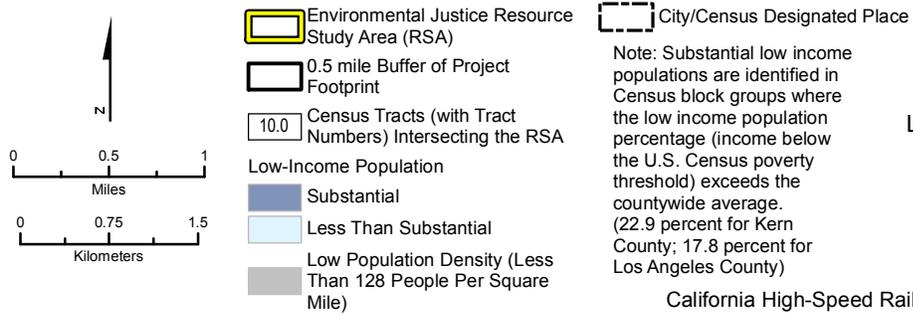


**Figure 5-A-3**

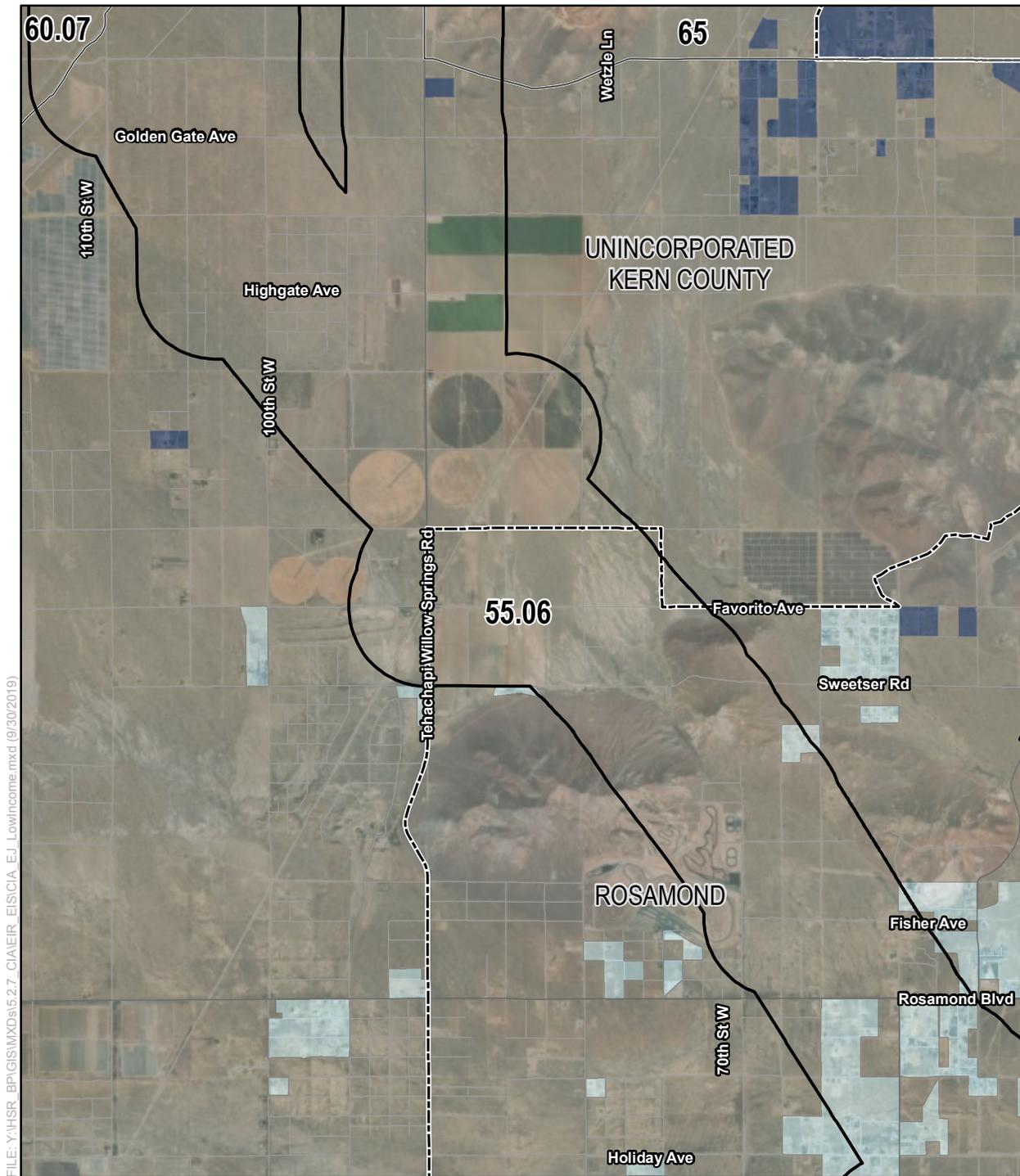
Low-Income Populations in the Environmental Justice Resource Study Area  
 Page 7 of 12



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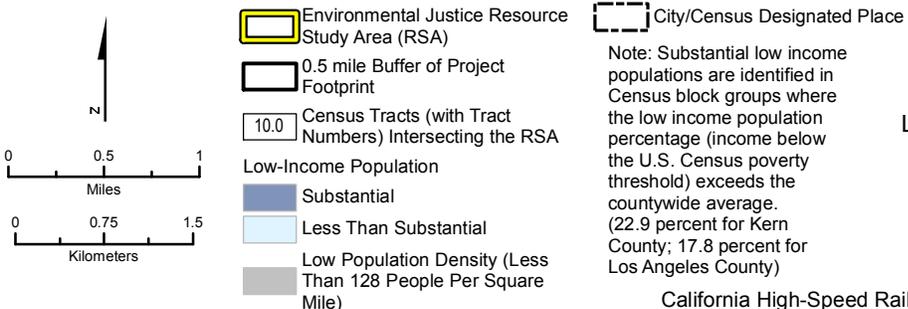


**Figure 5-A-3**  
 Low-Income Populations in the Environmental Justice Resource Study Area  
 Page 8 of 12

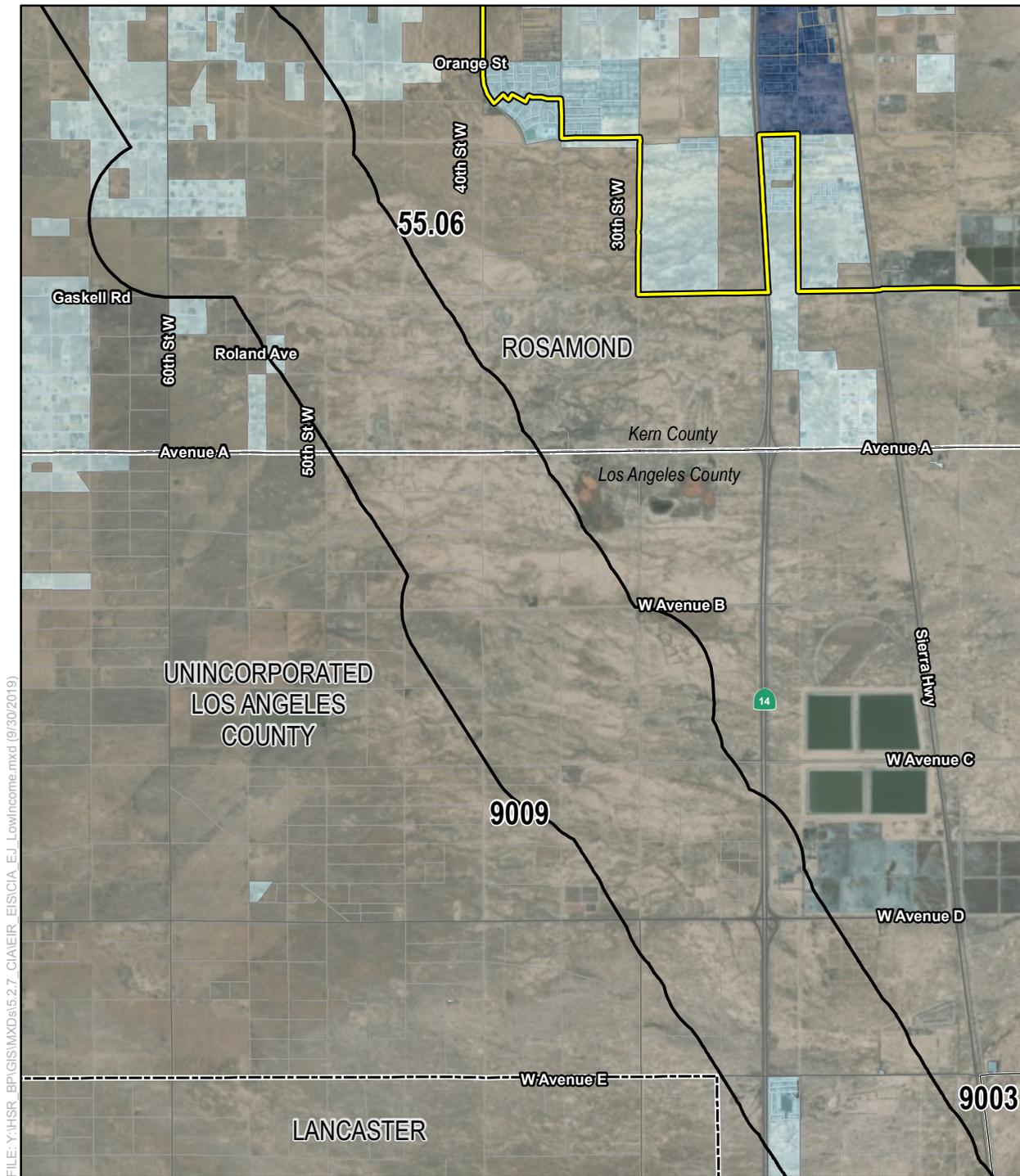


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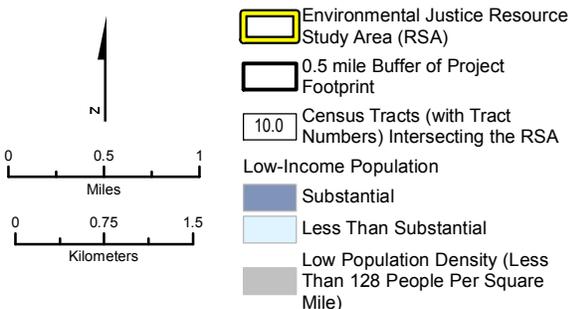


**Figure 5-A-3**  
 Low-Income Populations in the Environmental Justice Resource Study Area  
 Page 9 of 12



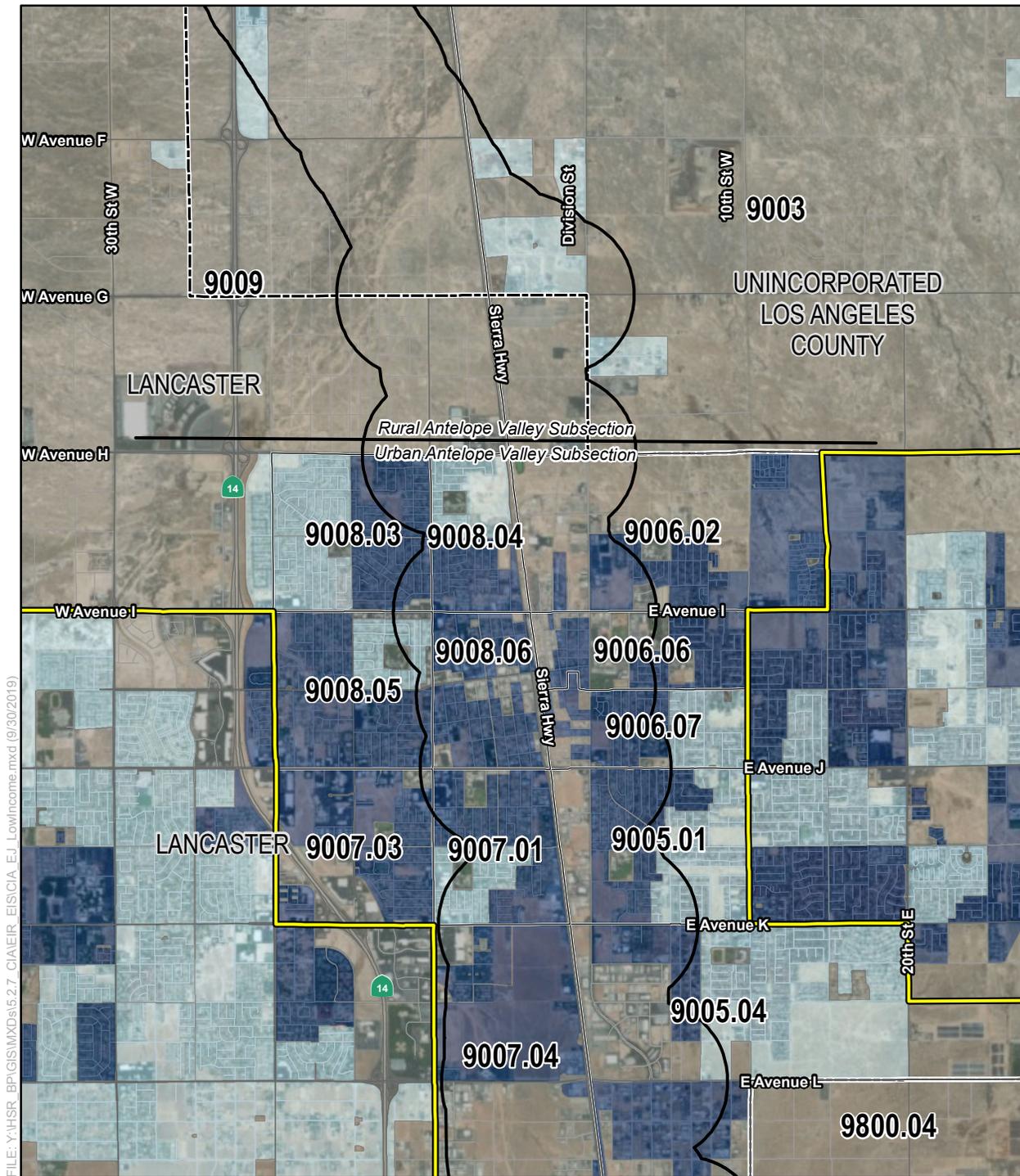
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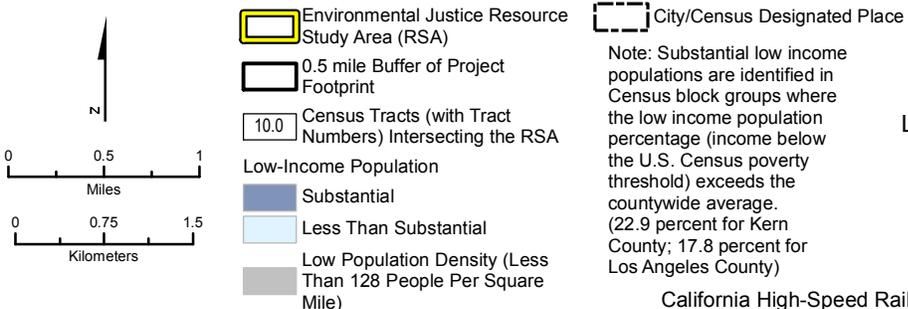
Note: Substantial low income populations are identified in Census block groups where the low income population percentage (income below the U.S. Census poverty threshold) exceeds the countywide average. (22.9 percent for Kern County; 17.8 percent for Los Angeles County)

**Figure 5-A-3**  
 Low-Income Populations in the Environmental Justice Resource Study Area  
 Page 10 of 12



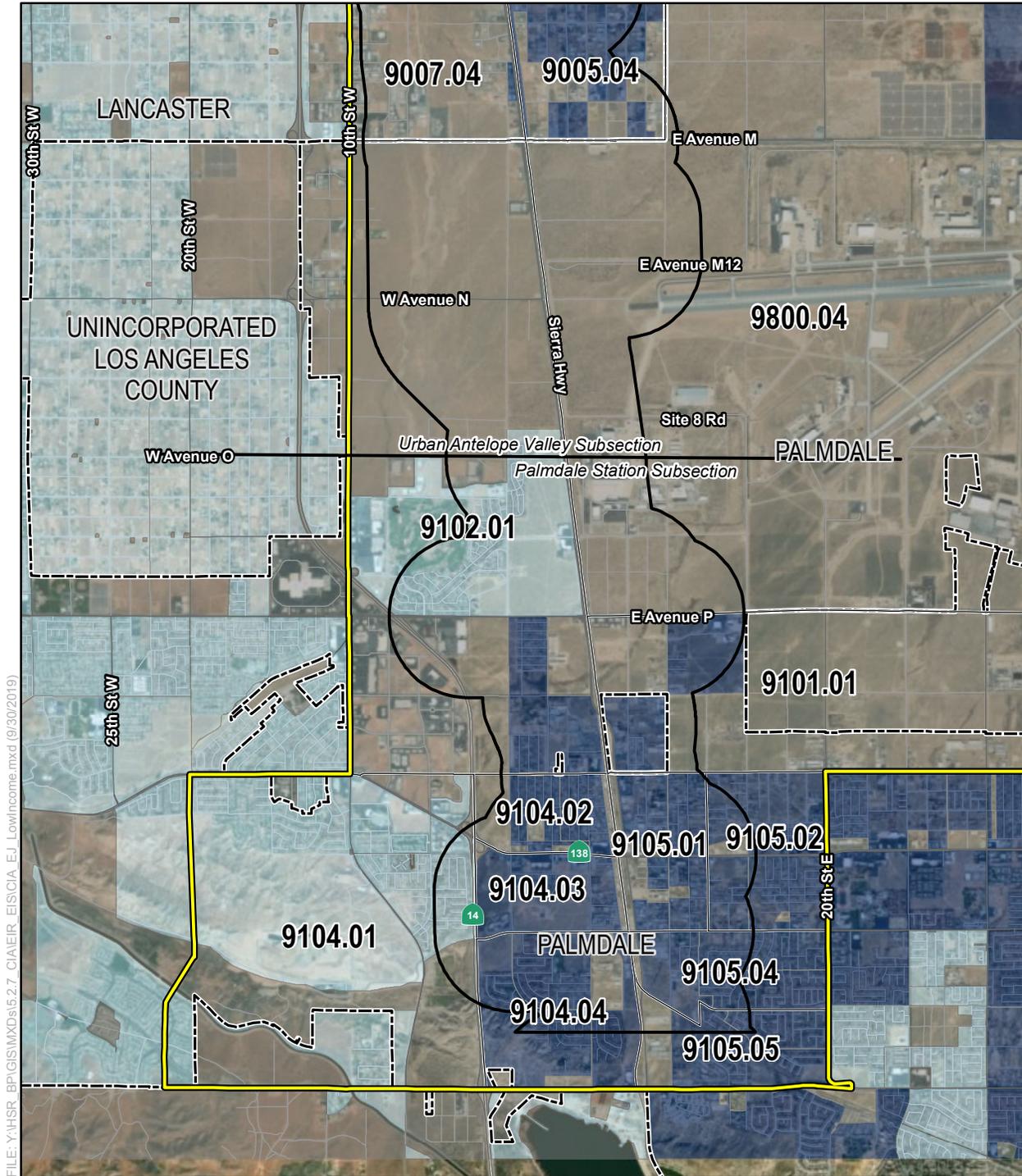
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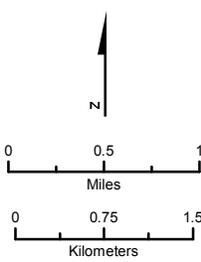
**Figure 5-A-3**

Low-Income Populations in the Environmental Justice Resource Study Area



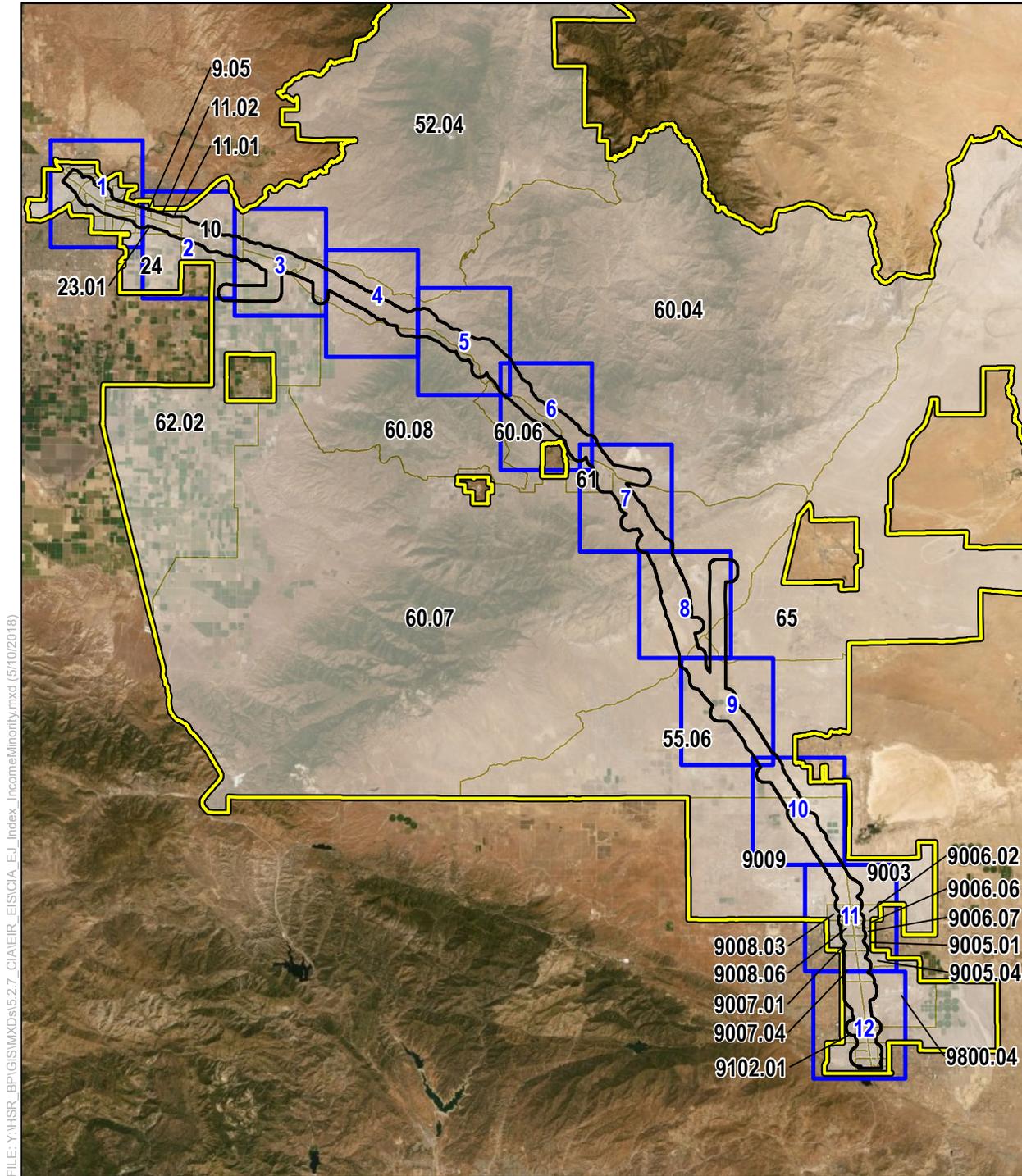
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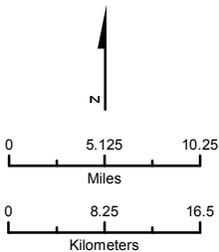


- Environmental Justice Resource Study Area (RSA)
  - 0.5 mile Buffer of Project Footprint
  - 10.0 Census Tracts (with Tract Numbers) Intersecting the RSA
  - Low-Income Population**
  - Substantial
  - Less Than Substantial
  - Low Population Density (Less Than 128 People Per Square Mile)
  - City/Census Designated Place
- Note: Substantial low income populations are identified in Census block groups where the low income population percentage (income below the U.S. Census poverty threshold) exceeds the countywide average. (22.9 percent for Kern County; 17.8 percent for Los Angeles County)

**Figure 5-A-3**  
 Low-Income Populations in the Environmental Justice Resource Study Area  
 Page 12 of 12



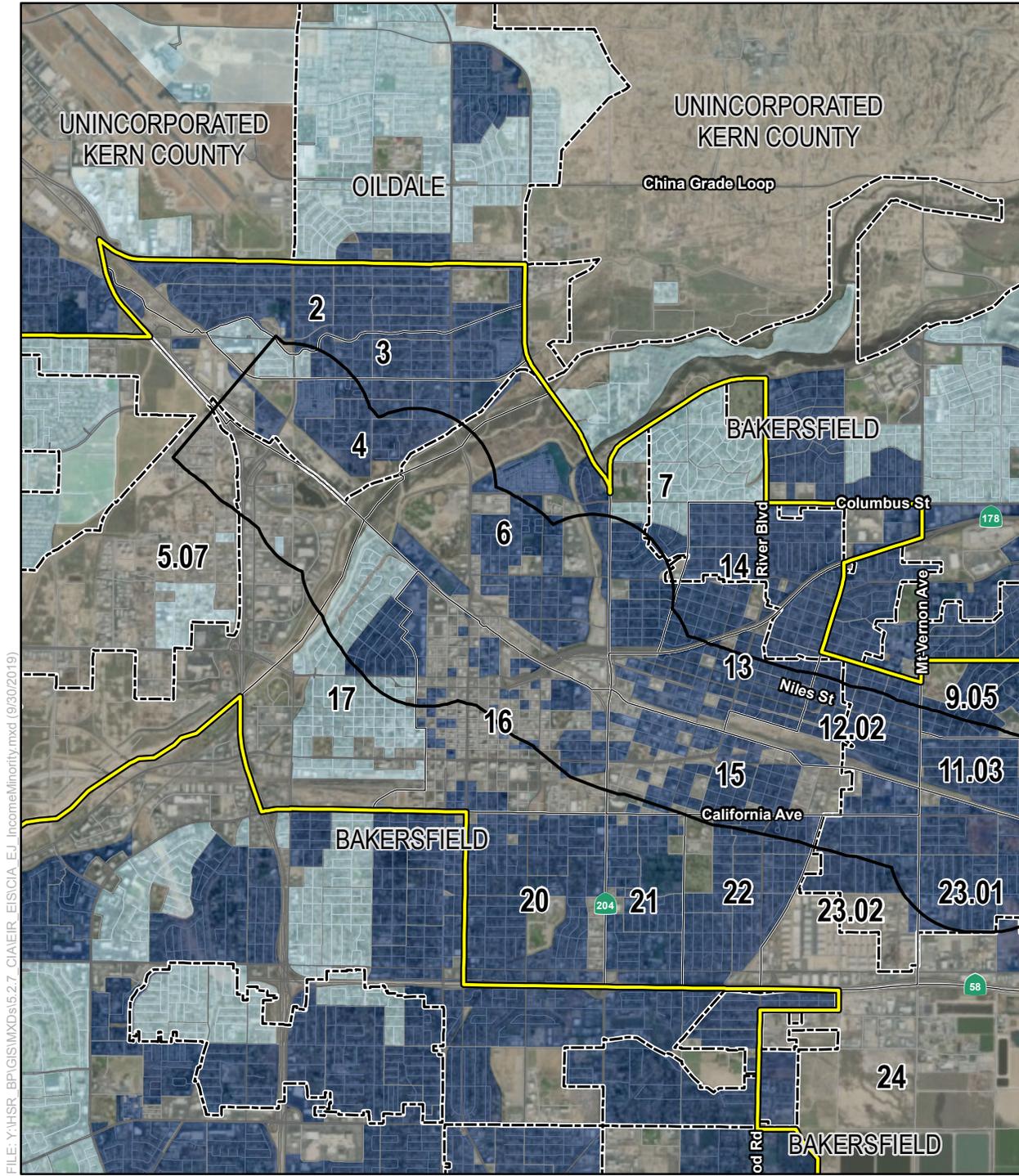
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- Low-Income and/or Minority Population Page Index
- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts Intersecting the RSA

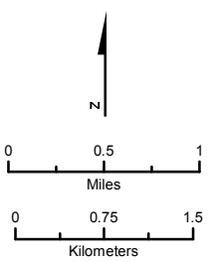
**Figure 5-A-4**

Low-Income and/or Minority  
 Populations in the  
 Environmental Justice  
 Resource Study Area  
 Map Index for Pages 1-12



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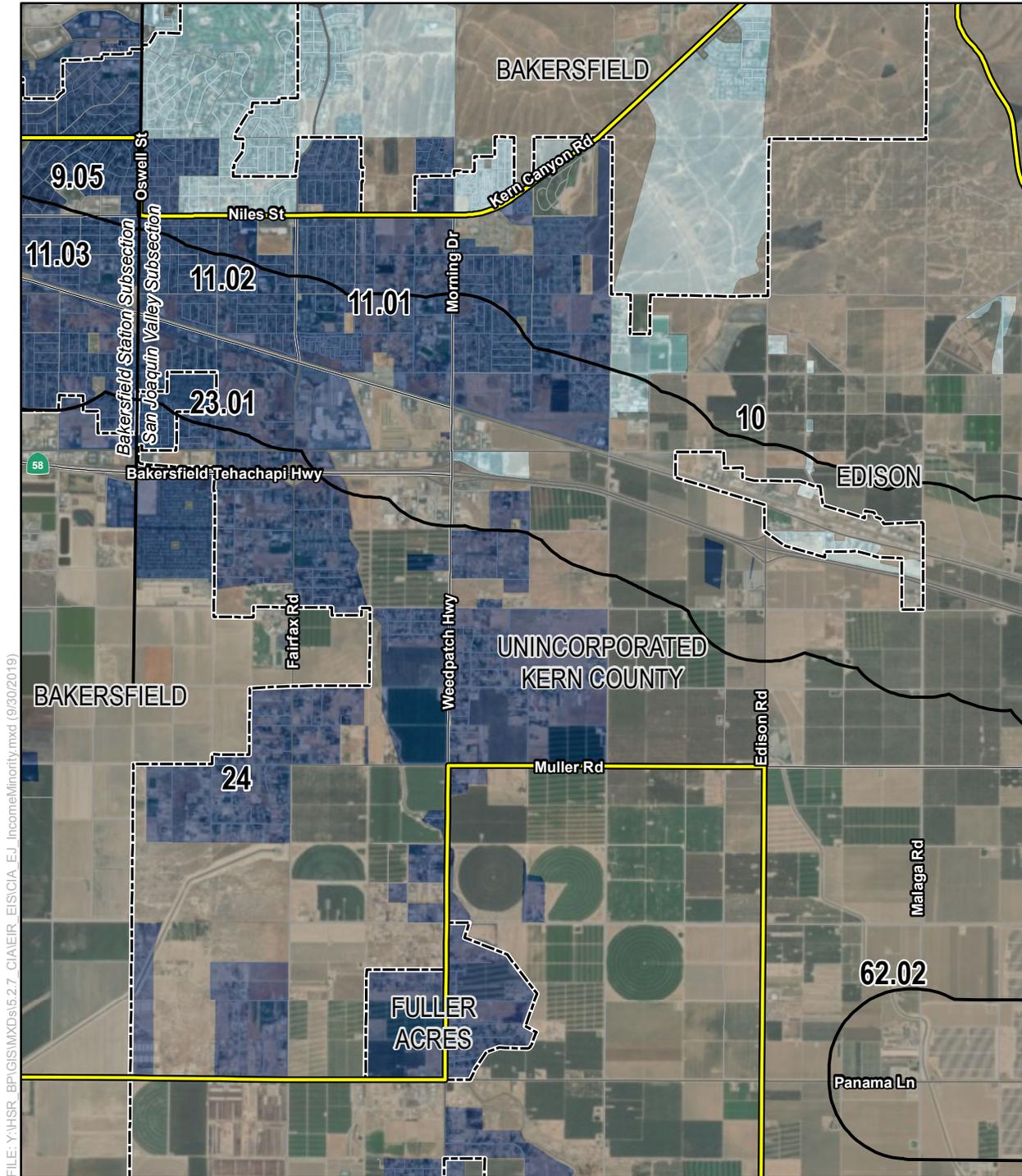
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- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts (with Tract Numbers) Intersecting the RSA
- 10.0 City/Census Designated Place
- Low-Income and/or Minority Populations**
- Substantial
- Less Than Substantial
- Low Population Density

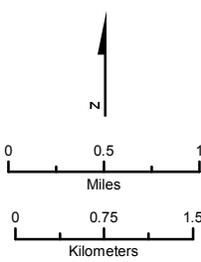
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**Figure 5-A-4**  
 Low-Income and/or Minority Populations in the Resource Study Area  
 Page 1 of 12



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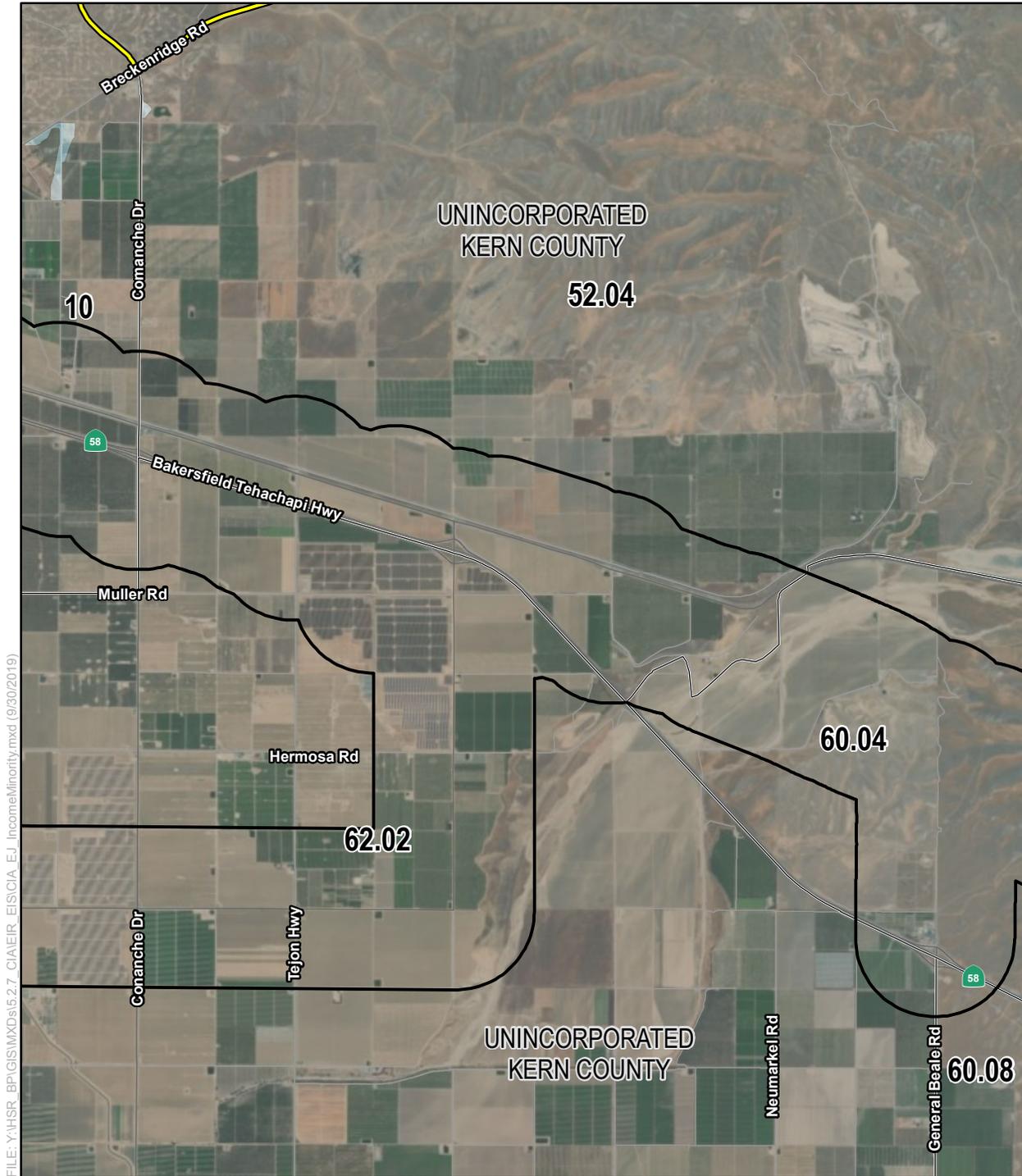
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- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts (with Tract Numbers) Intersecting the RSA
- 10.0 City/Census Designated Place
- Low-Income and/or Minority Populations
  - Substantial
  - Less Than Substantial
  - Low Population Density

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**Figure 5-A-4**  
 Low-Income and/or Minority Populations in the Resource Study Area  
 Page 2 of 12



FILE: Y:\HSR\_BP\GIS\MapDocs\5.2.7\_CIA\EIR\_EIS\CIA\_EJ\_IncomeMinority.mxd (9/30/2019)

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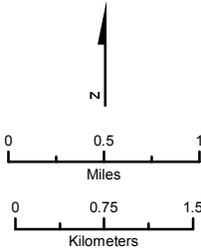
**Environmental Justice Resource Study Area (RSA)**

- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts (with Tract Numbers) Intersecting the RSA
- City/Census Designated Place

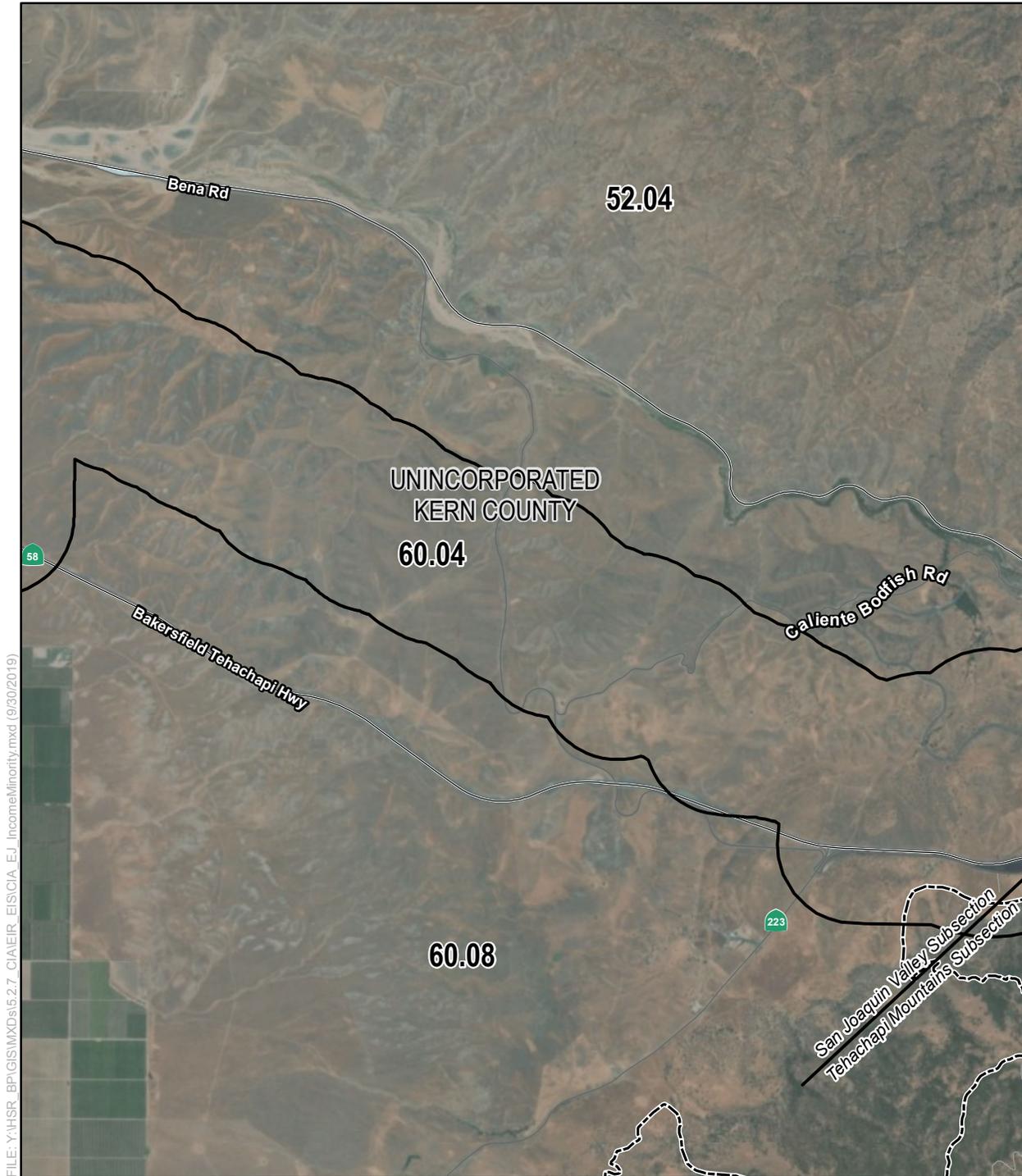
**Low-Income and/or Minority Populations**

- Substantial
- Less Than Substantial
- Low Population Density

Note: Substantial minority populations are identified in Census block groups where the minority population (non-White only; including Hispanic/Latino, regardless of race) percentage exceeds the countywide average. (62.1 percent for Kern County; 72.5 percent for Los Angeles County). Substantial low income populations are identified in census block groups where the low income population percentage (income below the U.S. Census poverty threshold) exceeds the countywide average. (22.9 percent for Kern County; 17.8 percent for Los Angeles County)

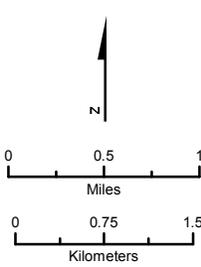


**Figure 5-A-4**  
 Low-Income and/or Minority Populations in the Resource Study Area  
 Page 3 of 12



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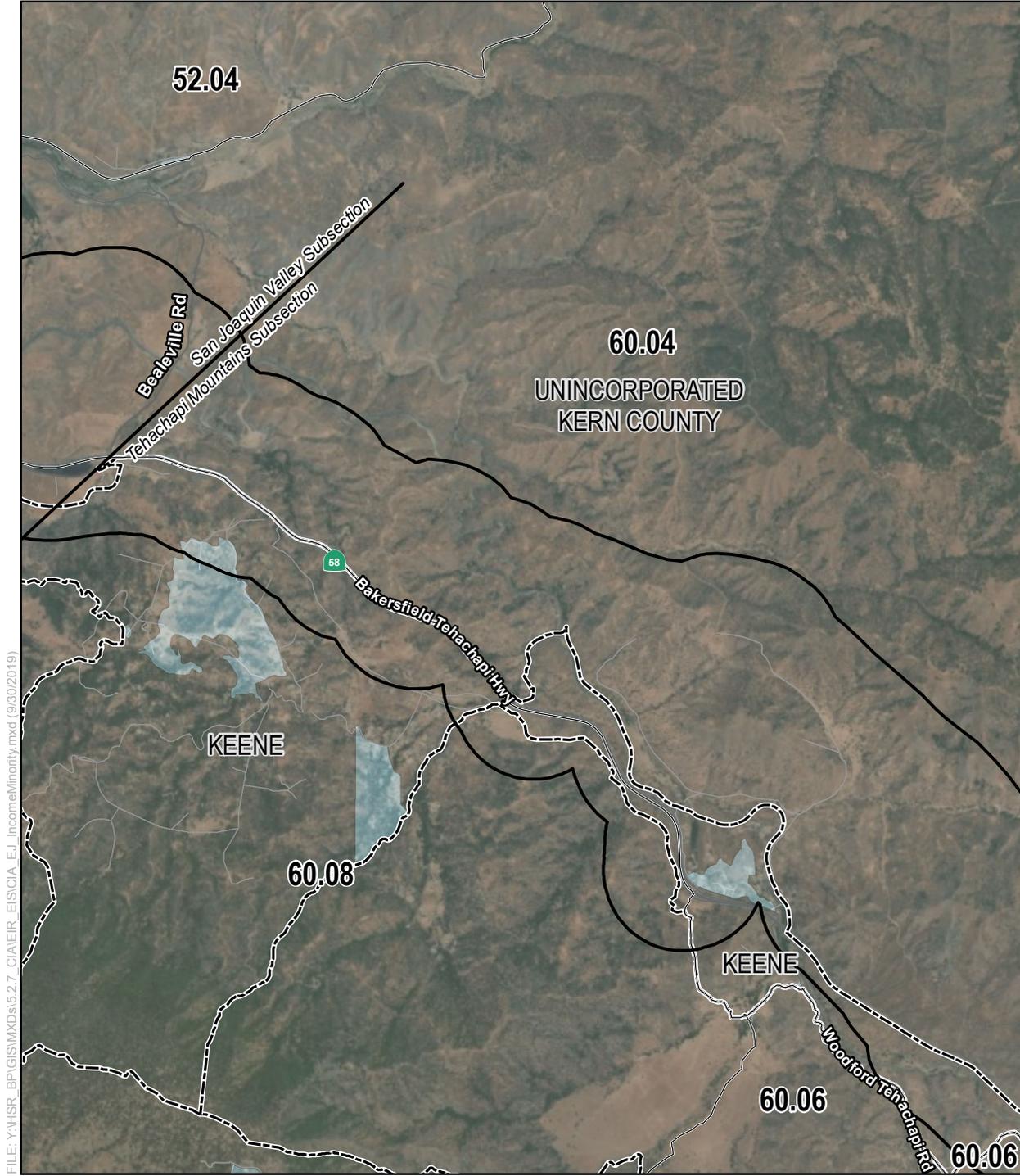
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- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint Intersecting the RSA
- Census Tracts (with Tract Numbers) Intersecting the RSA
- 10.0 City/Census Designated Place
- Low-Income and/or Minority Populations**
- Substantial
- Less Than Substantial
- Low Population Density

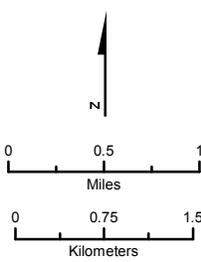
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**Figure 5-A-4**  
 Low-Income and/or Minority Populations in the Resource Study Area  
 Page 4 of 12



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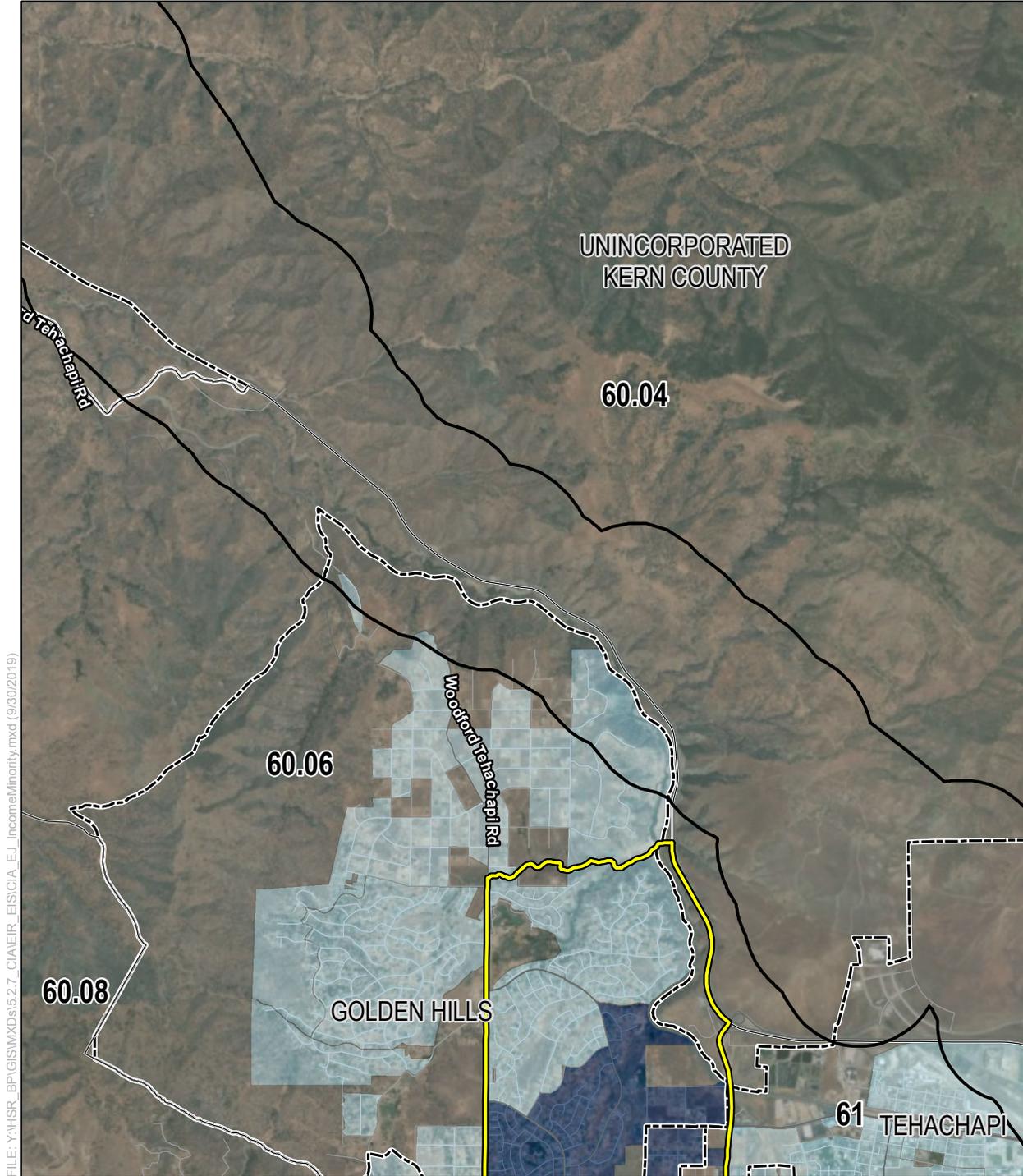
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- 10.0 City/Census Designated Place
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- Less Than Substantial
- Low Population Density

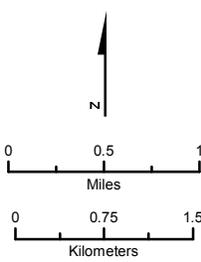
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**Figure 5-A-4**  
 Low-Income and/or Minority Populations in the Resource Study Area  
 Page 5 of 12



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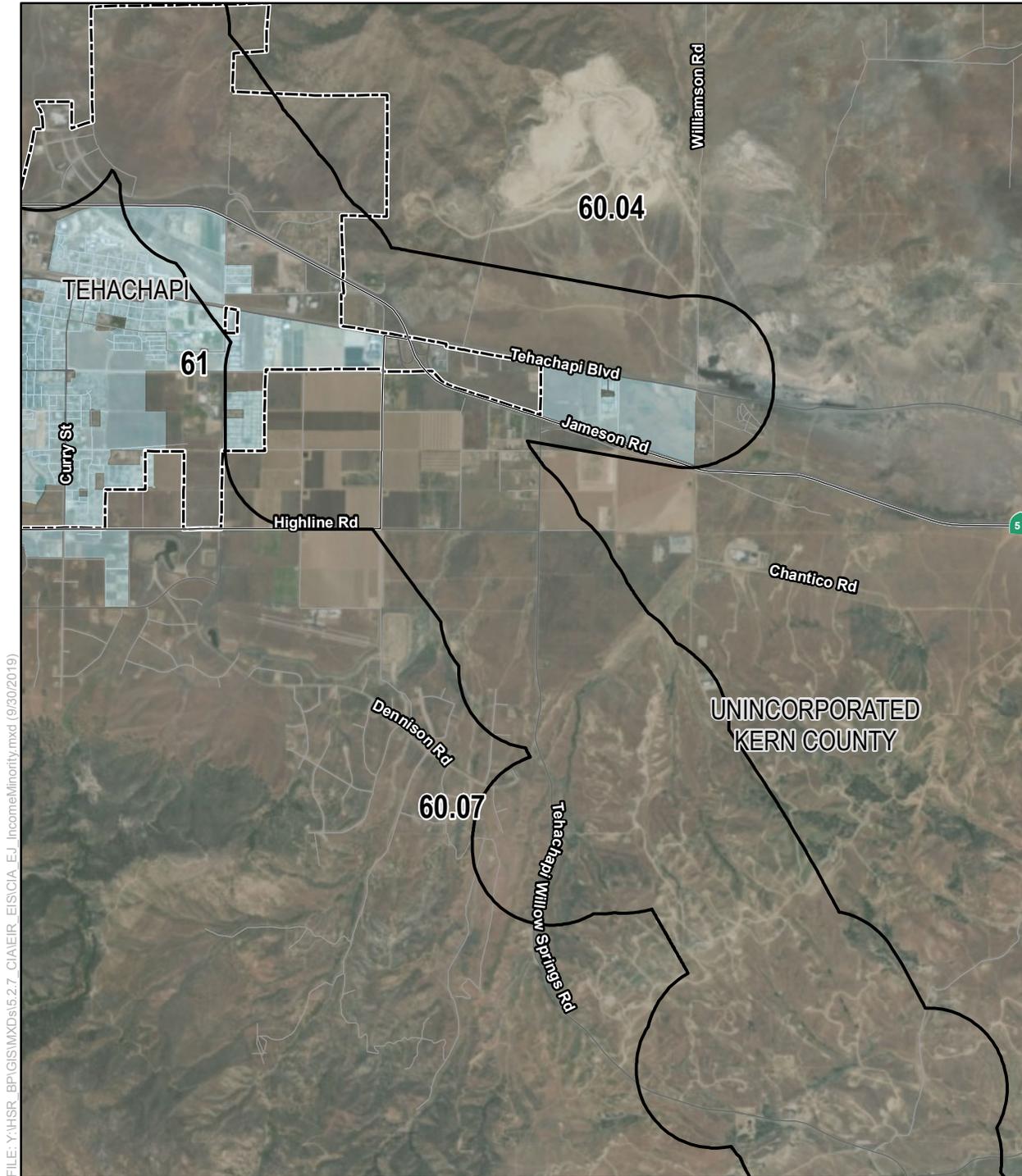
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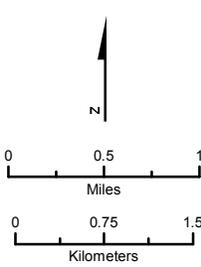
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**Figure 5-A-4**  
 Low-Income and/or Minority Populations in the Resource Study Area  
 Page 6 of 12



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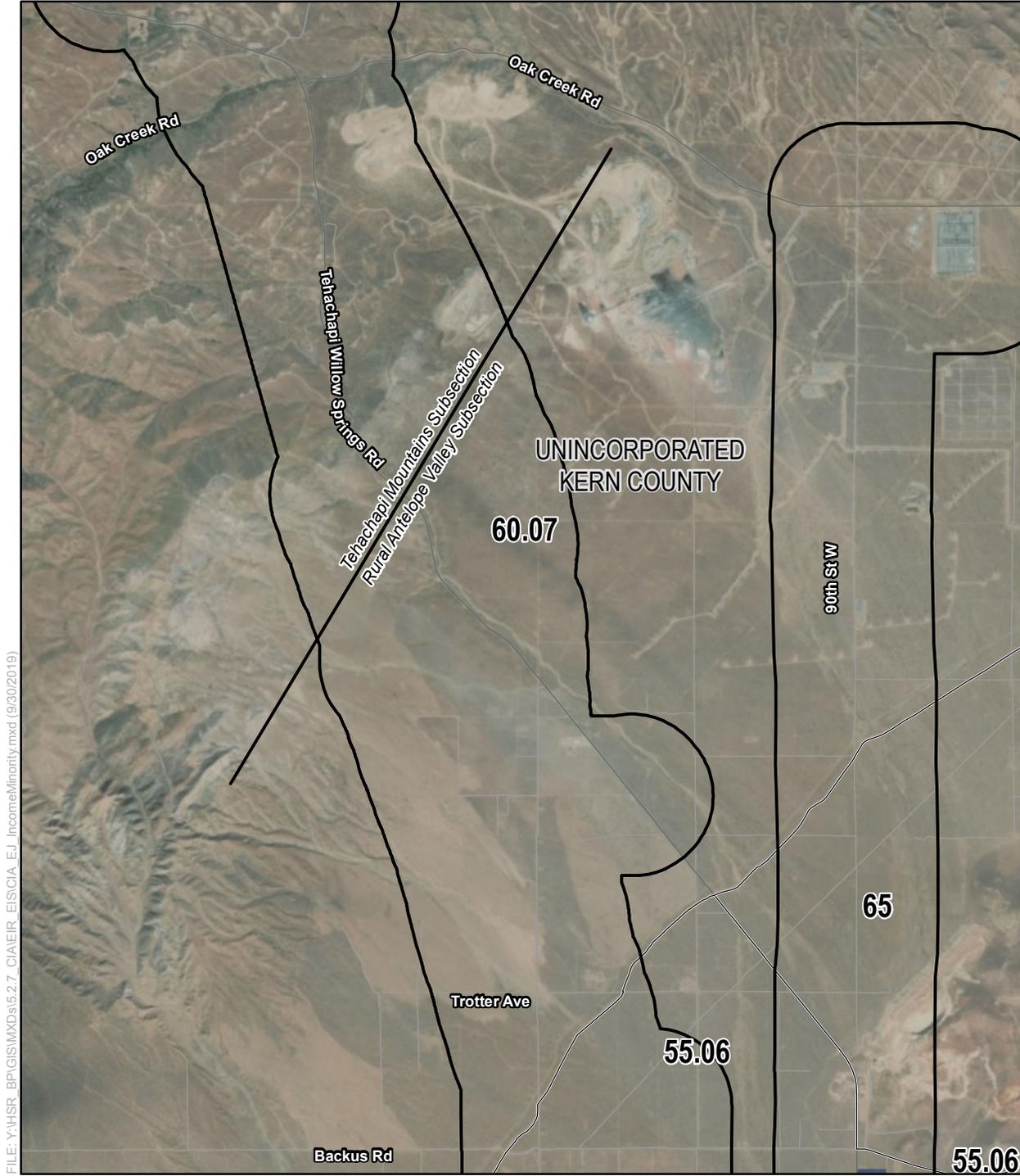
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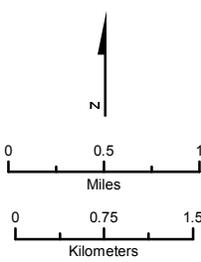
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**Figure 5-A-4**  
 Low-Income and/or Minority Populations in the Resource Study Area  
 Page 7 of 12



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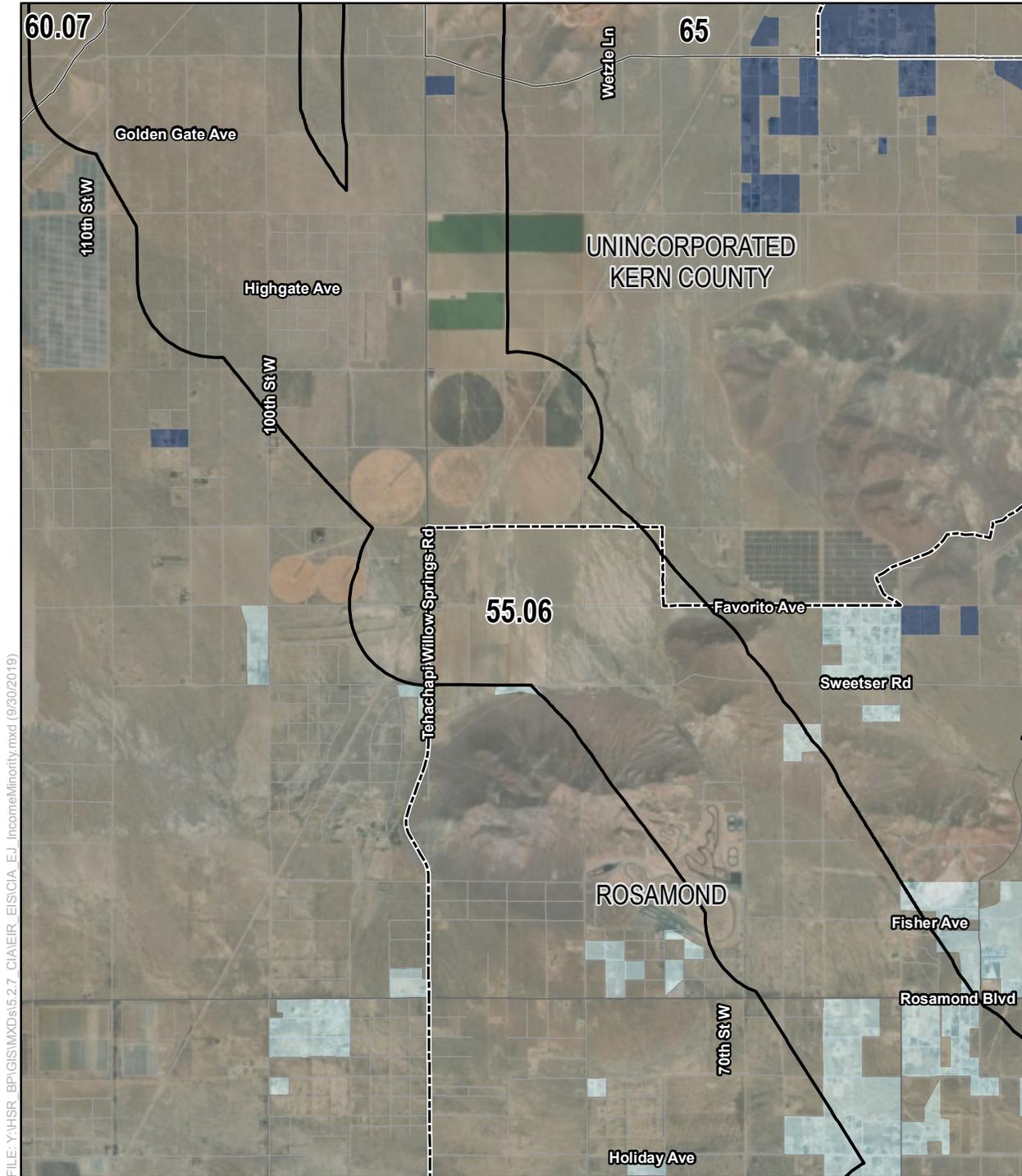
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**Figure 5-A-4**  
 Low-Income and/or Minority Populations in the Resource Study Area  
 Page 8 of 12



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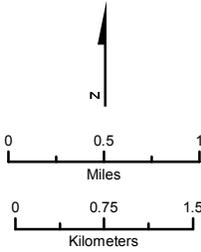
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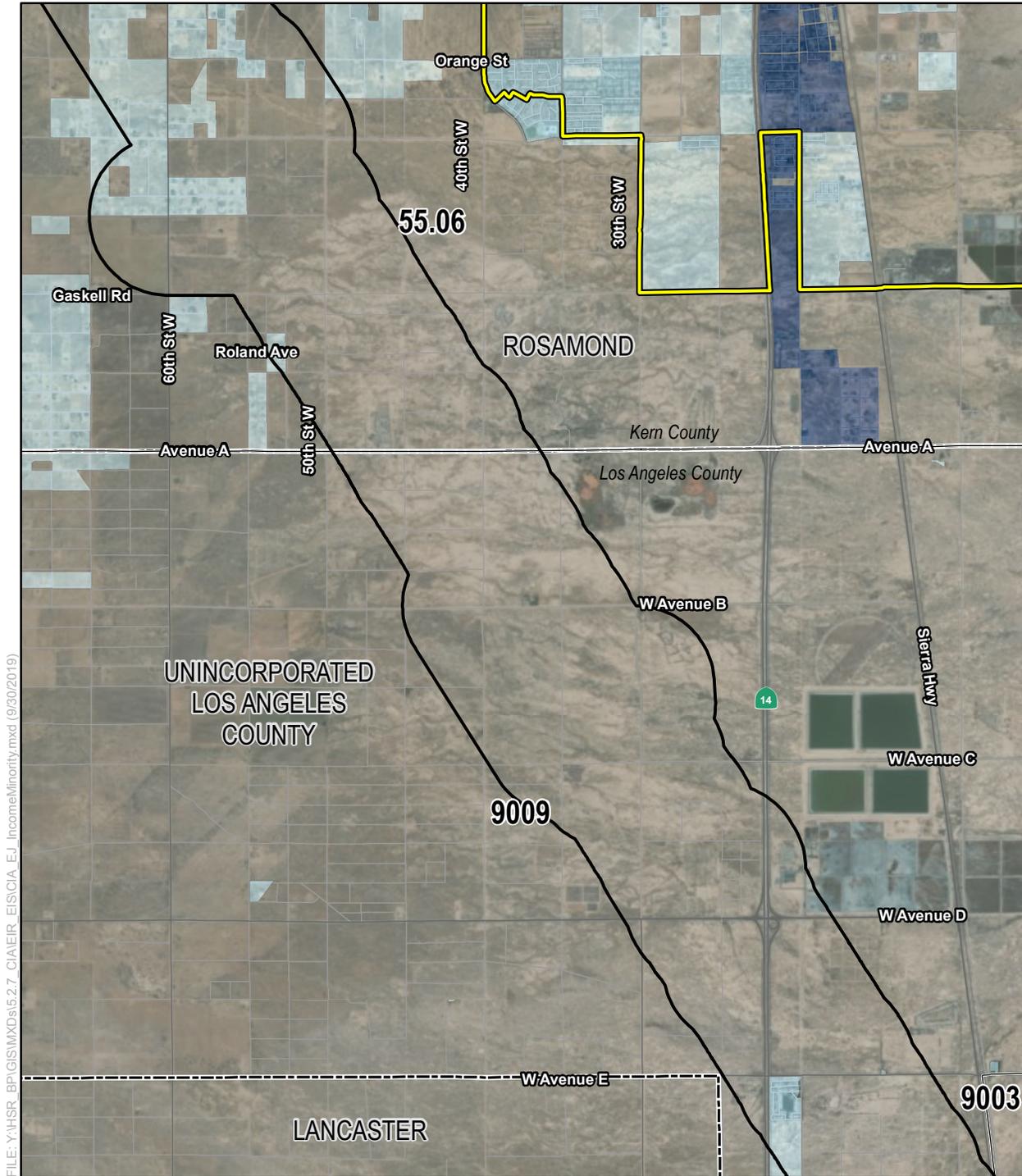
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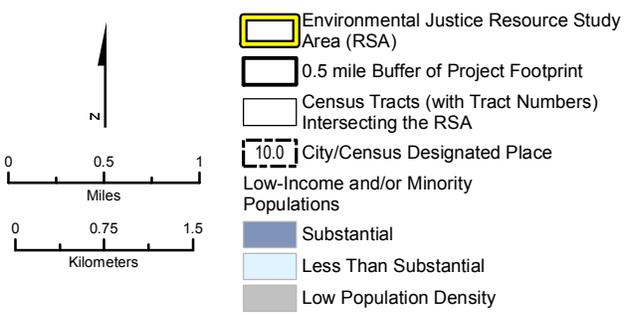


**Figure 5-A-4**  
 Low-Income and/or Minority Populations in the Resource Study Area  
 Page 9 of 12



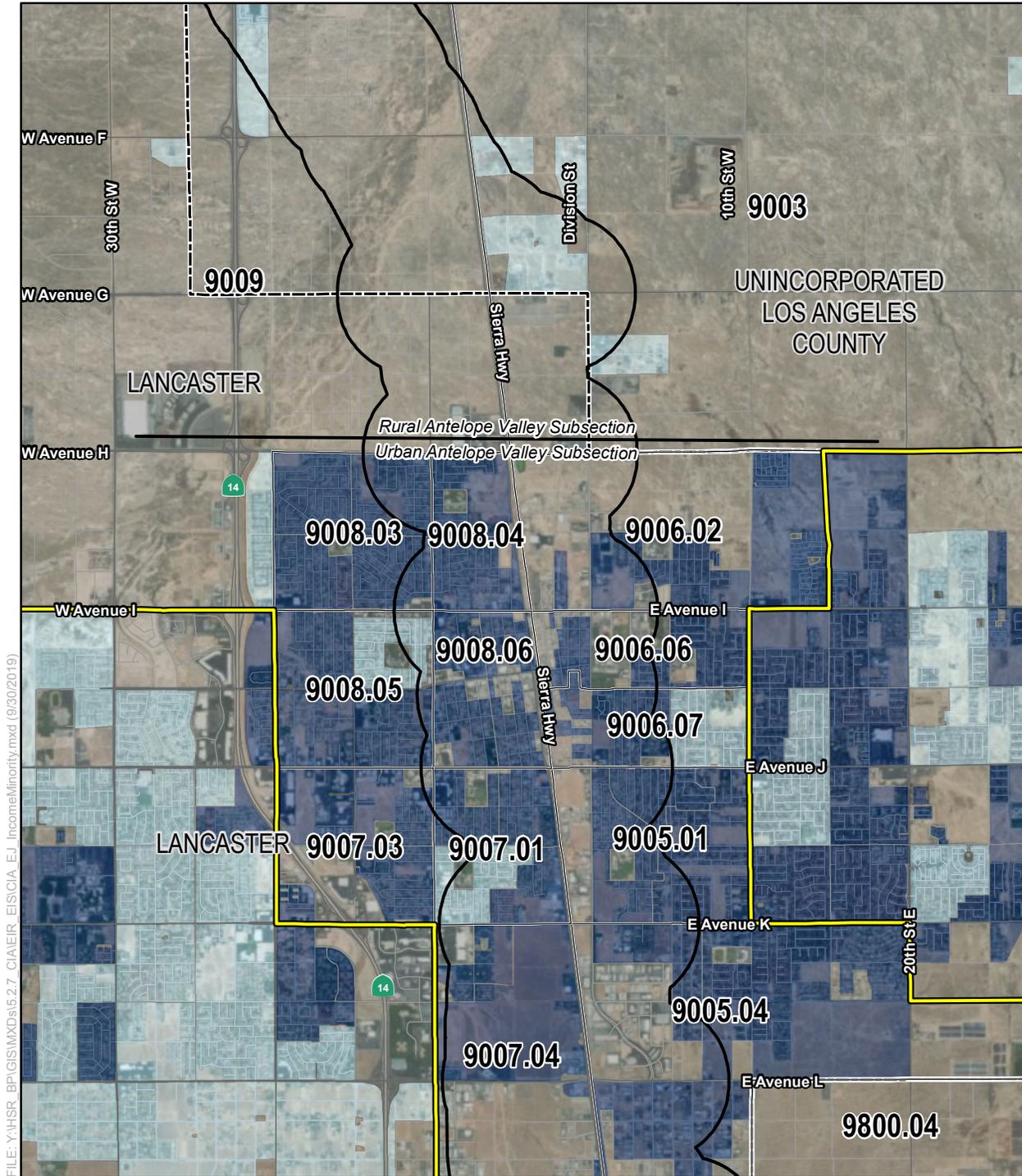
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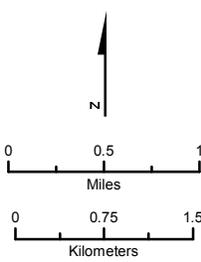
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**Figure 5-A-4**  
 Low-Income and/or Minority Populations in the Resource Study Area  
 Page 10 of 12



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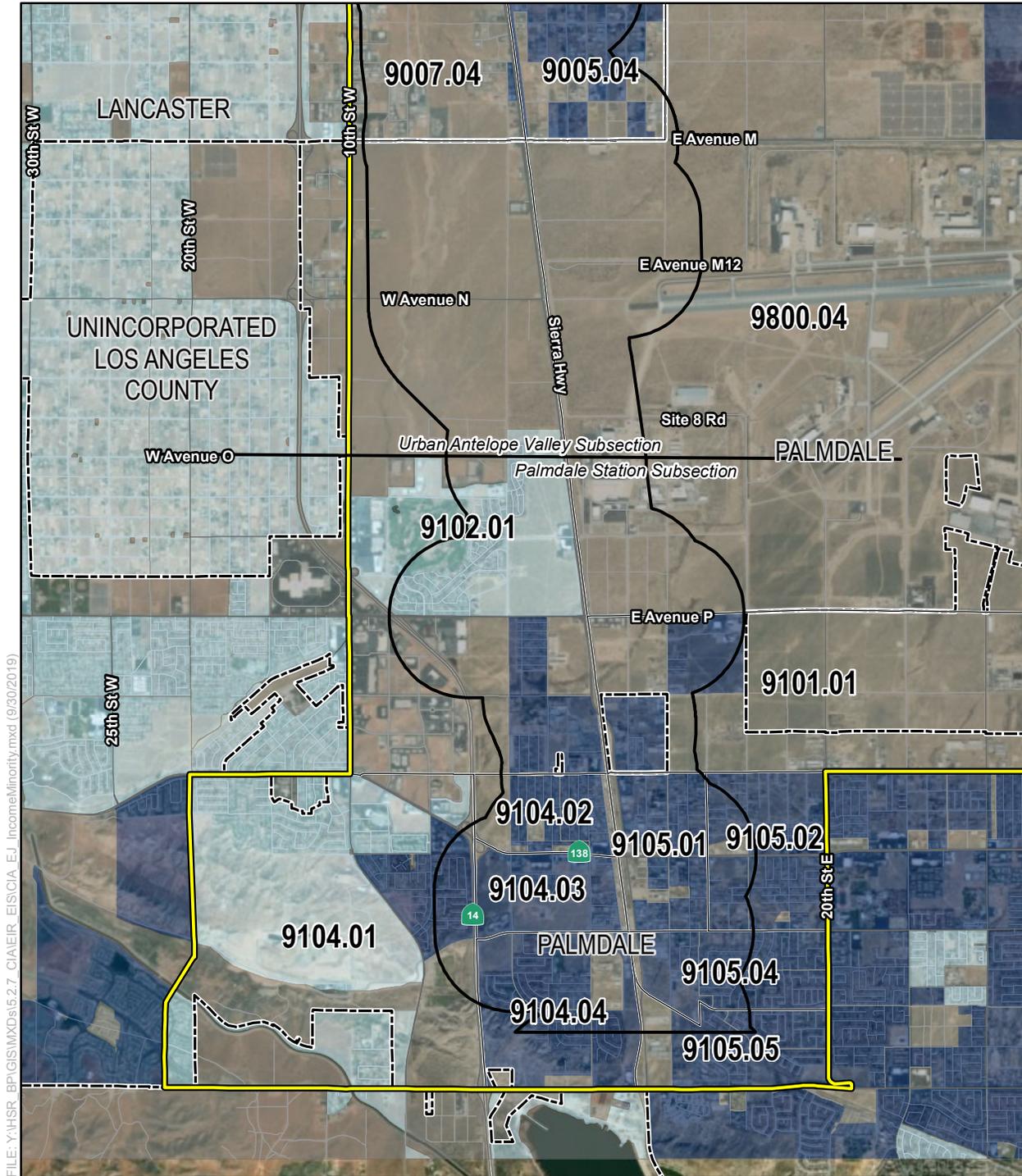
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- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts (with Tract Numbers) Intersecting the RSA
- 10.0 City/Census Designated Place
- Substantial Low-Income and/or Minority Populations
- Less Than Substantial
- Low Population Density

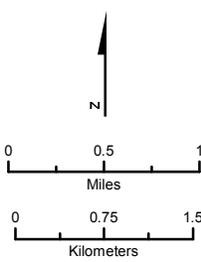
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**Figure 5-A-4**  
 Low-Income and/or Minority Populations in the Resource Study Area  
 Page 11 of 12



FILE: Y:\HSR\_BPGIS\IMXD\5.2.7\_CIA\EIR\_EIS\CIA\_EJ\_IncomeMinority.mxd (9/30/2019)

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED  
 SOURCE: Esri Aerial Imagery (2015); CHSRA (4/2016); US Census Bureau American Community Survey (2009-2013)

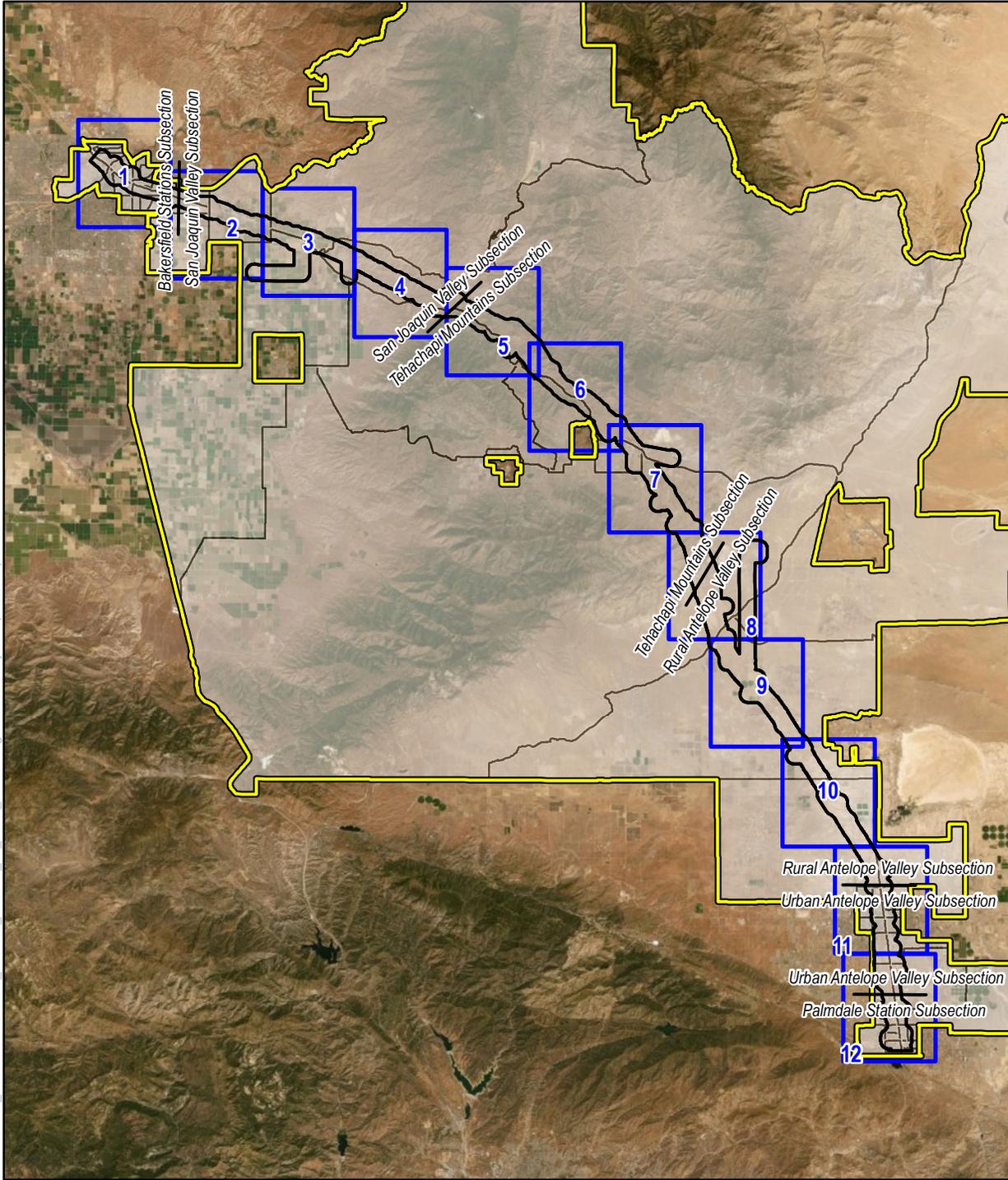


- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts (with Tract Numbers) Intersecting the RSA
- City/Census Designated Place
- Low-Income and/or Minority Populations
- Substantial
- Less Than Substantial
- Low Population Density

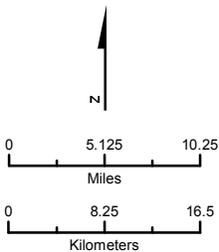
Note: Substantial minority populations are identified in Census block groups where the minority population (non-White only; including Hispanic/Latino, regardless of race) percentage exceeds the countywide average. (62.1 percent for Kern County; 72.5 percent for Los Angeles County). Substantial low income populations are identified in census block groups where the low income population percentage (income below the U.S. Census poverty threshold) exceeds the countywide average. (22.9 percent for Kern County; 17.8 percent for Los Angeles County)

**Figure 5-A-4**  
 Low-Income and/or Minority Populations in the Resource Study Area  
 Page 12 of 12

FILE: Y:\HSR\_BP\GIS\IMXD\5.2.7\_CIAVEIR\_EIS\CIA\_EJ\_Index\_LimitedEnglishProficiency.mxd (5/9/2017)



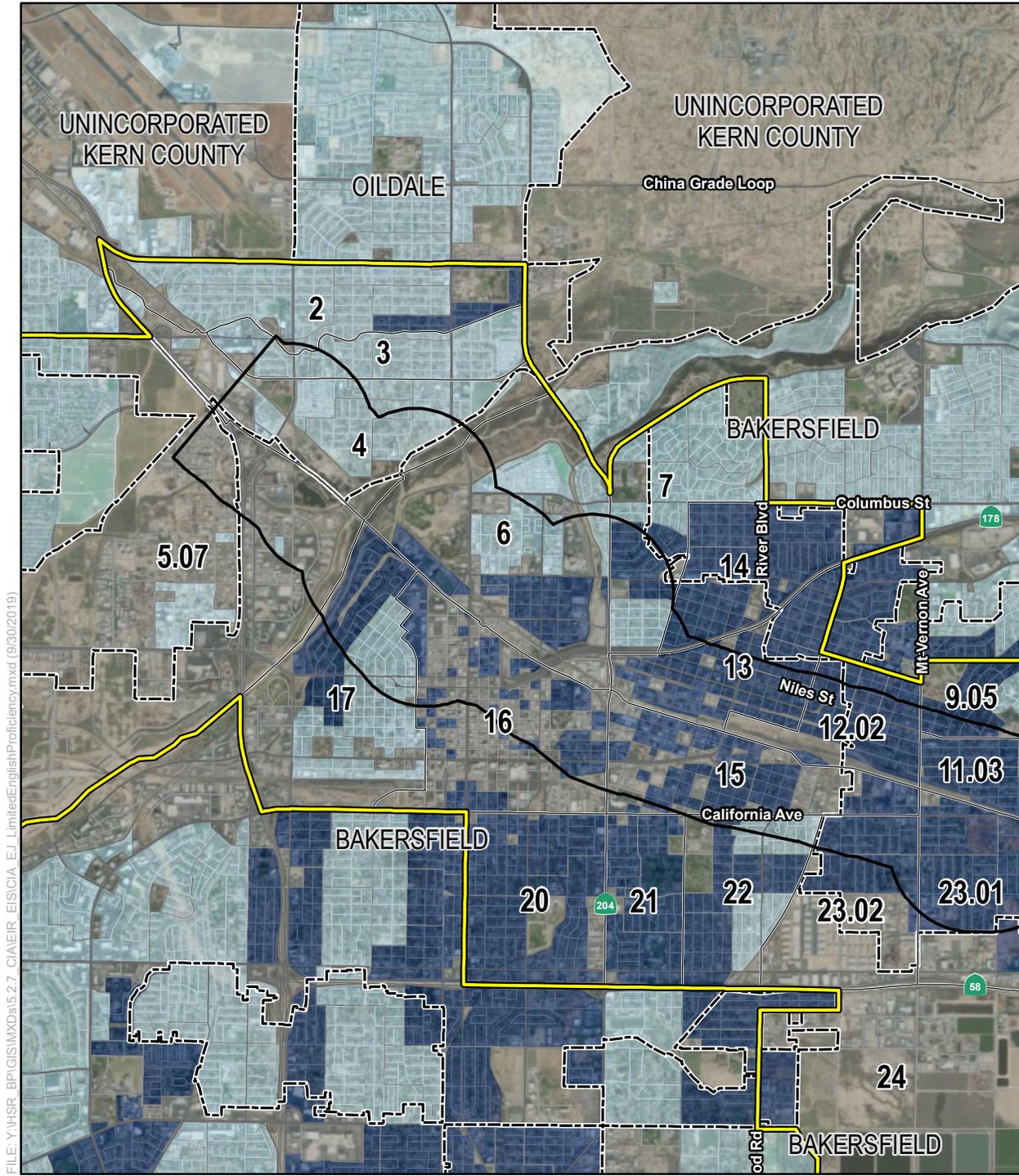
PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED  
 SOURCE: Esri Aerial Imagery (2015); CHSRA (4/2016); US Census Bureau American Community Survey (2009-2013)



- Limited English Proficiency Population Page Index
- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts Intersecting the RSA

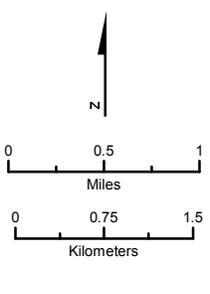
**Figure 5-A-5**

Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
 Map Index for Pages 1-12



FILE: Y:\HSR\_BP\GIS\IMXD\5.2.7\_CIAVEIR\_EIS\CIA\_EJ\_LimitedEnglishProficiency.mxd (9/30/2019)

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED  
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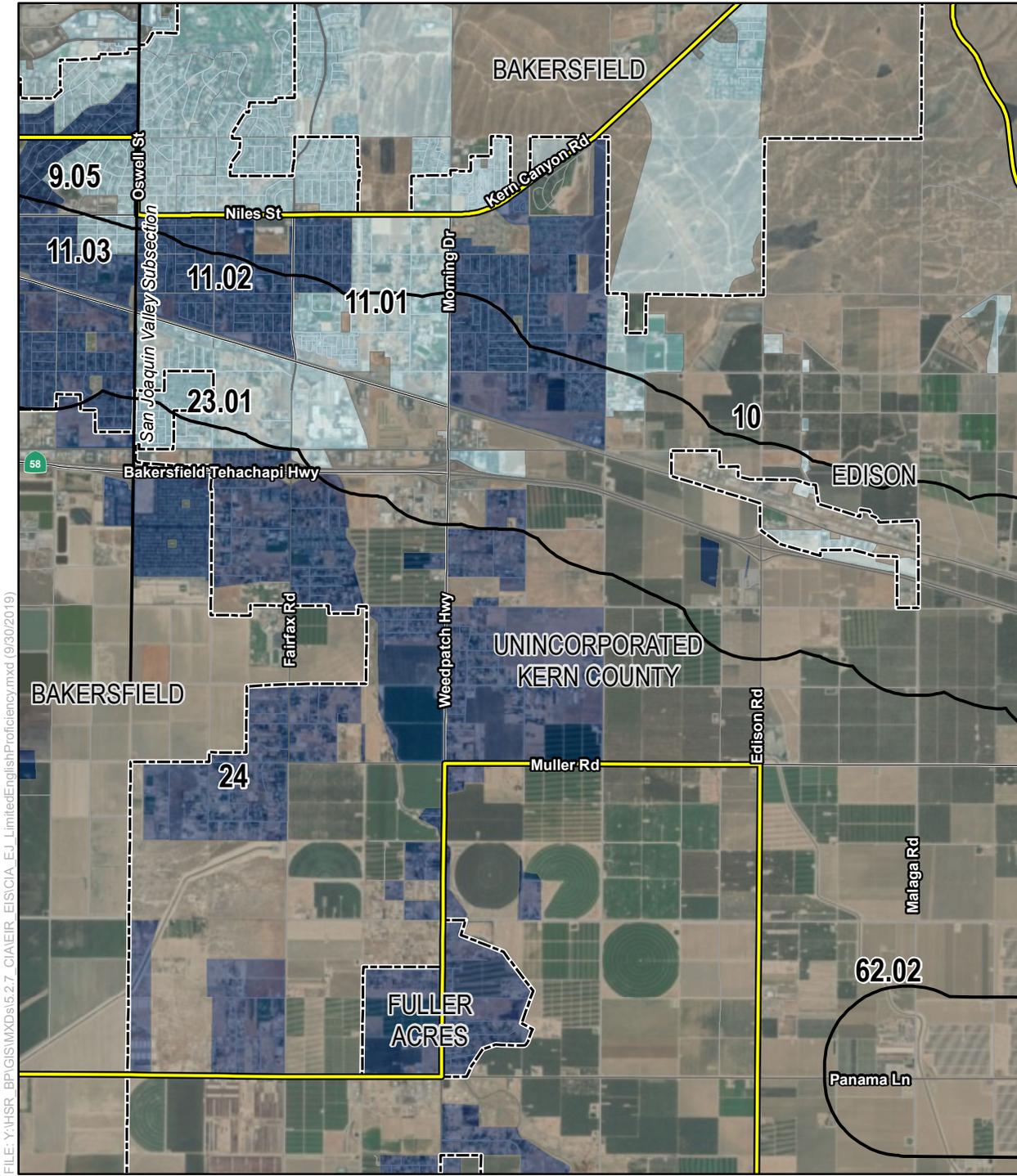


- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- 10.0 Census Tracts (with Tract Numbers) Intersecting the RSA
- Limited English Proficiency Population
  - Substantial
  - Less Than Substantial
  - Low Population Density (Less Than 128 People Per Square Mile)

City/Census Designated Place

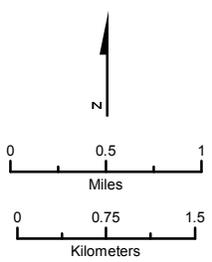
Note: Substantial Limited English Proficiency (LEP) populations are identified in Census block groups where the LEP population percentage (households where all members 14 years old and over have at least some difficulty speaking English) exceeds the countywide average. (9.1 percent for Kern County; 14.5 percent for Los Angeles County)

**Figure 5-A-5**  
 Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
 Page 1 of 12



FILE: Y:\HSR\_BP\GIS\IMXD\5.2.7\_CIAVEIR\_EIS\CIA\_EJ\_LimitedEnglishProficiency.mxd (9/30/2019)

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED  
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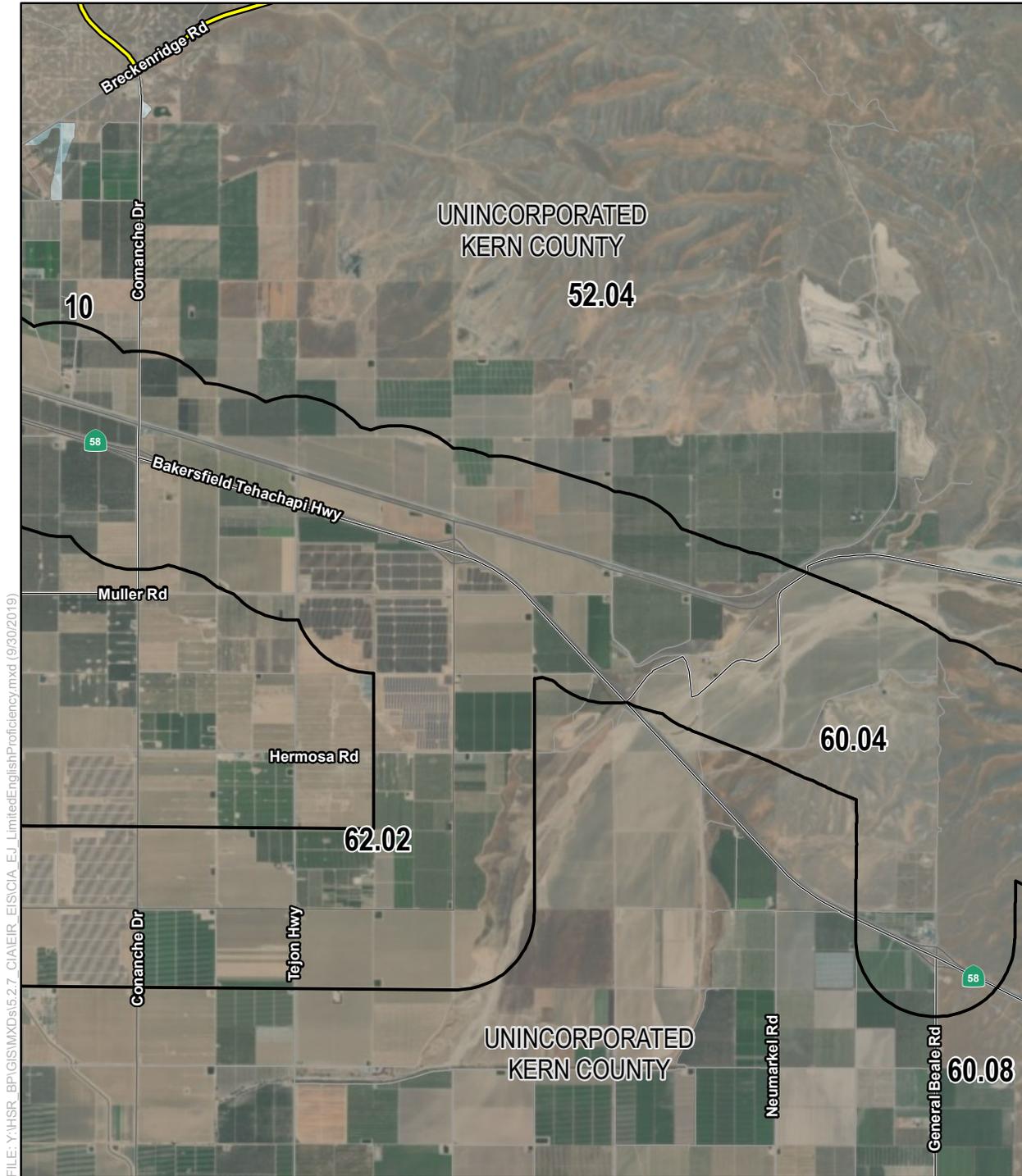


- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts (with Tract Numbers) Intersecting the RSA
- Limited English Proficiency Population
  - Substantial
  - Less Than Substantial
  - Low Population Density (Less Than 128 People Per Square Mile)

City/Census Designated Place

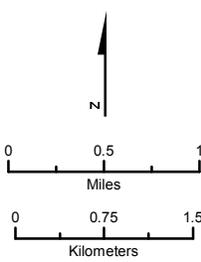
Note: Substantial Limited English Proficiency (LEP) populations are identified in Census block groups where the LEP population percentage (households where all members 14 years old and over have at least some difficulty speaking English) exceeds the countywide average. (9.1 percent for Kern County; 14.5 percent for Los Angeles County)

**Figure 5-A-5**  
 Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
 Page 2 of 12



FILE: Y:\HSR\_BP\GIS\IMXD\5.2.7\_CIAVEIR\_EIS\CIA\_EJ\_LimitedEnglishProficiency.mxd (9/30/2019)

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED  
 SOURCE: Esri Aerial Imagery (2015); CHSRA (4/2016); US Census Bureau American Community Survey (2009-2013)



- Environmental Justice Resource Study Area (RSA)
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- 10.0 Census Tracts (with Tract Numbers) Intersecting the RSA
- Limited English Proficiency Population
  - Substantial
  - Less Than Substantial
  - Low Population Density (Less Than 128 People Per Square Mile)

City/Census Designated Place

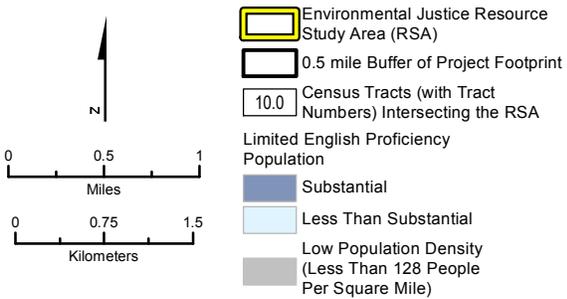
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**Figure 5-A-5**  
 Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
 Page 3 of 12



FILE: Y:\HSR\_BP\GIS\IMXD\5.2.7\_CIAVEIR\_EIS\CIA\_EJ\_LimitedEnglishProficiency.mxd (9/30/2019)

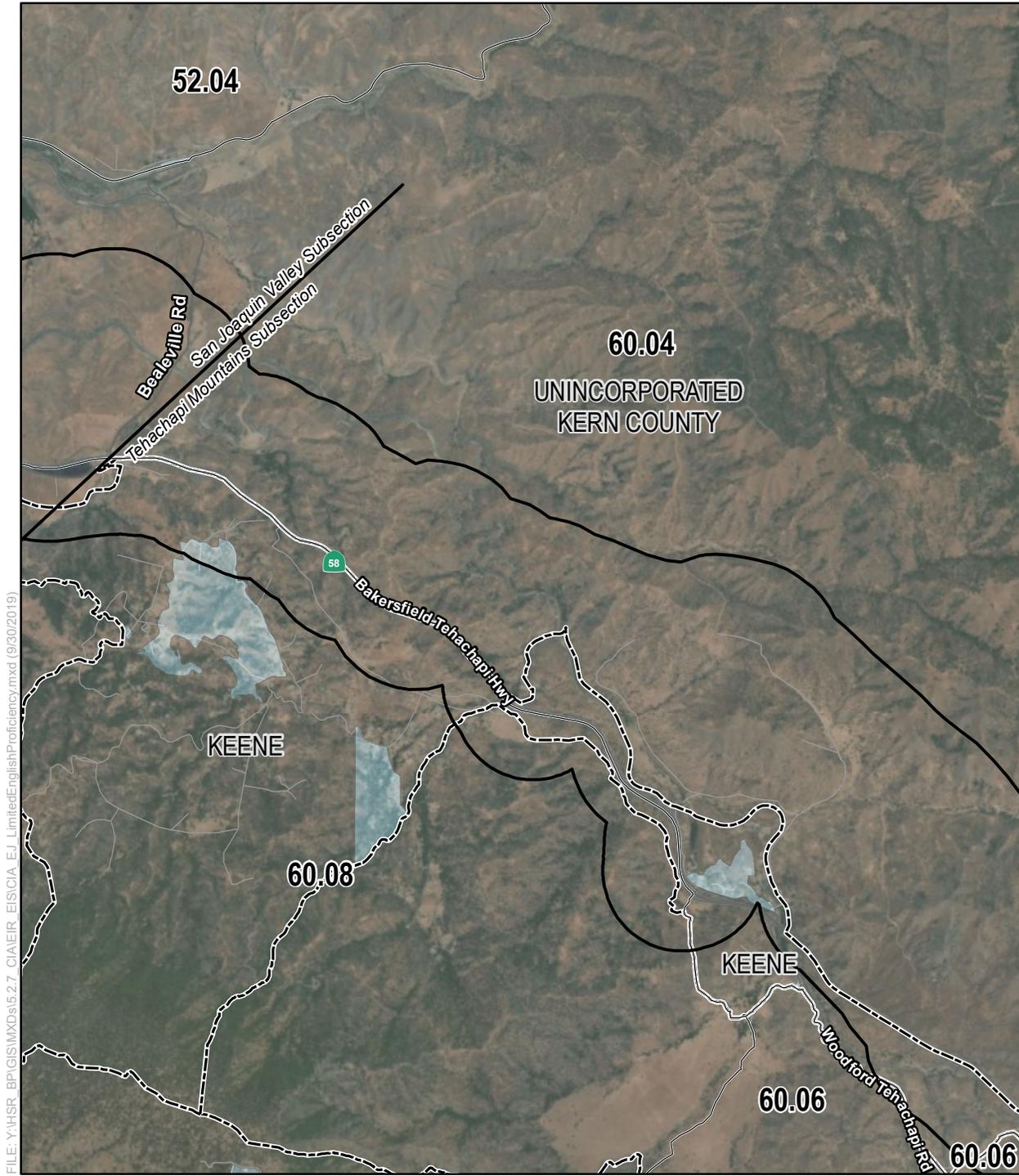
PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED  
 SOURCE: Esri Aerial Imagery (2015); CHSRA (4/2016); US Census Bureau American Community Survey (2009-2013)



City/Census Designated Place

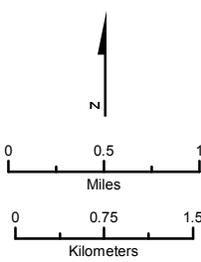
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**Figure 5-A-5**  
 Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
 Page 4 of 12



FILE: Y:\HSR\_BP\GIS\MXDs\5.2.7\_CIAVEIR\_EIS\CIA\_EJ\_LimitedEnglishProficiency.mxd (9/30/2019)

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED  
 SOURCE: Esri Aerial Imagery (2015); CHSRA (4/2016); US Census Bureau American Community Survey (2009-2013)

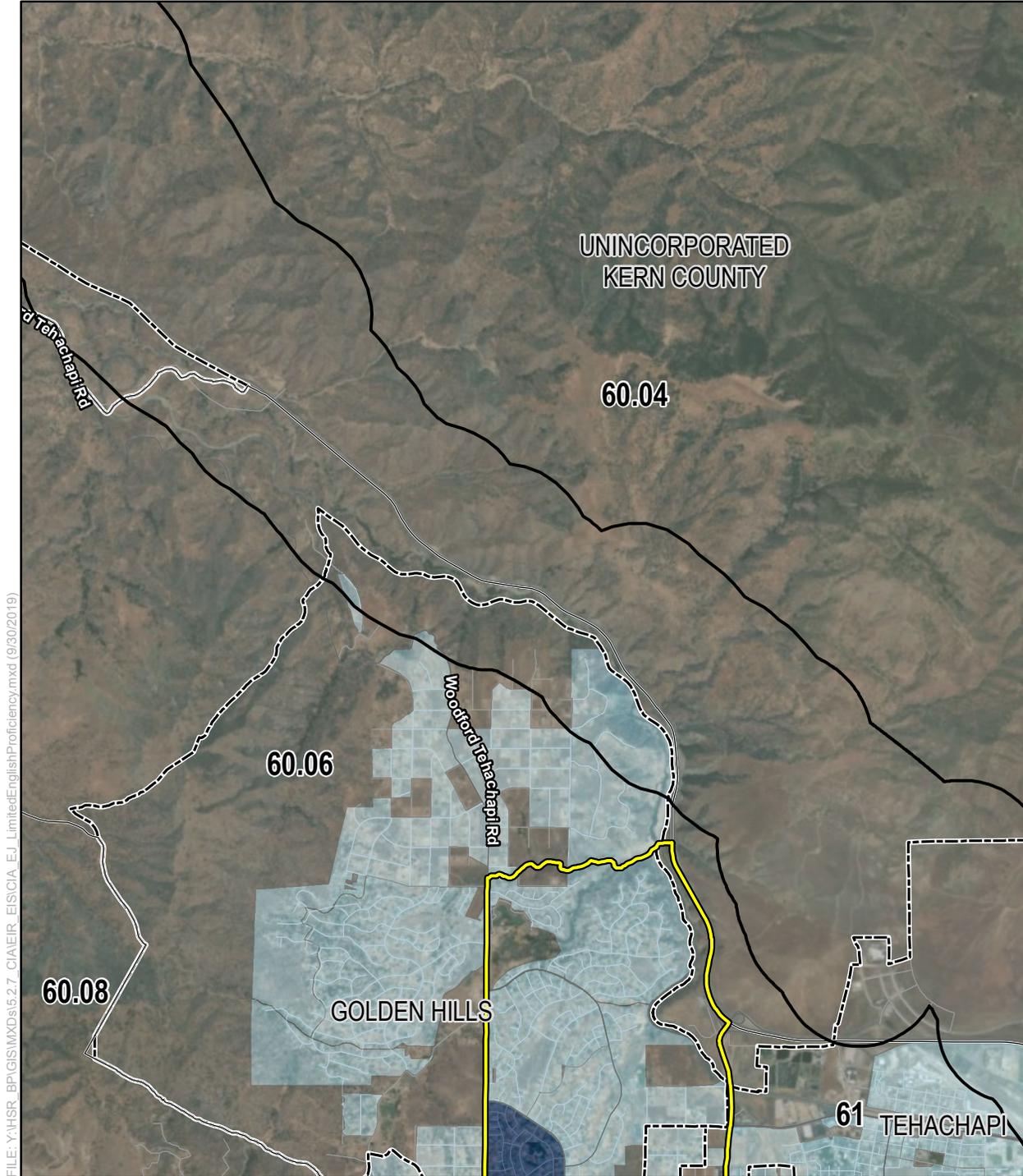


- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts (with Numbers) Intersecting the RSA
- Limited English Proficiency Population
  - Substantial
  - Less Than Substantial
  - Low Population Density (Less Than 128 People Per Square Mile)

City/Census Designated Place

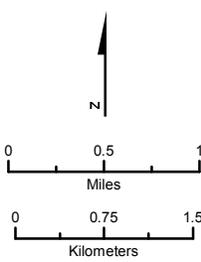
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**Figure 5-A-5**  
 Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
 Page 5 of 12



FILE: Y:\HSR\_BP\GIS\MXDs\5.2.7\_CIA\EIR\_EIS\CIA\_EJ\_LimitedEnglishProficiency.mxd (9/30/2019)

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED  
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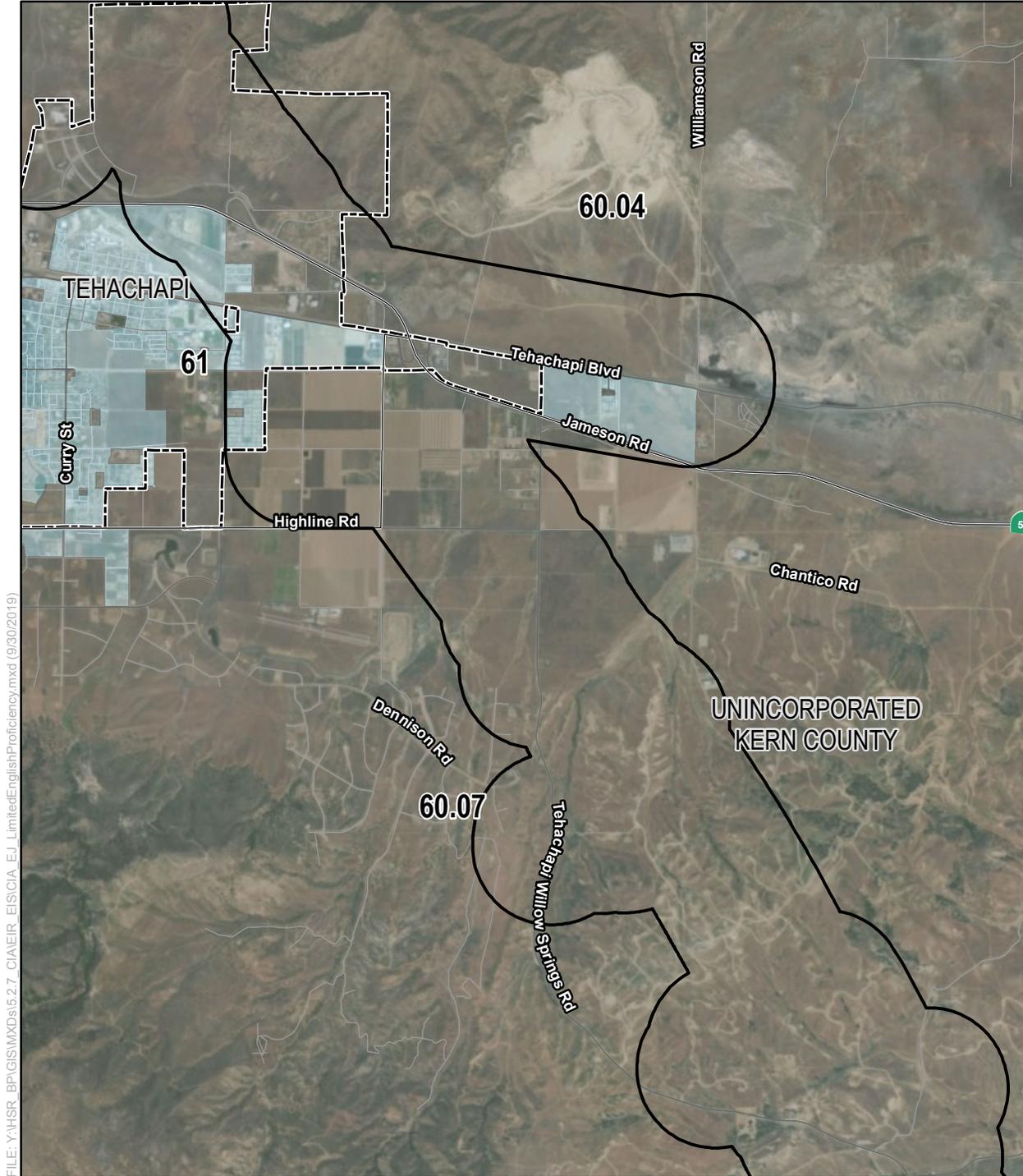


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- Limited English Proficiency Population**
- Substantial
- Less Than Substantial
- Low Population Density (Less Than 128 People Per Square Mile)

City/Census Designated Place

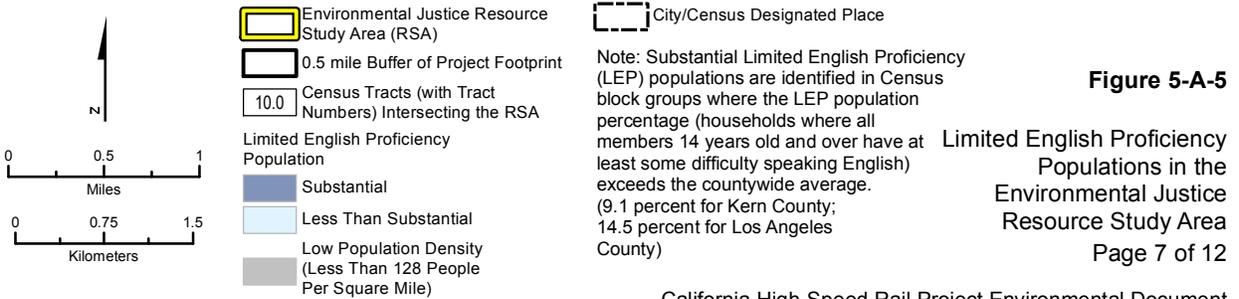
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**Figure 5-A-5**  
 Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
 Page 6 of 12



FILE: Y:\HSR\_BP\GIS\MXDs\5.2.7\_CIAVEIR\_EIS\CIA\_EJ\_LimitedEnglishProficiency.mxd (9/30/2019)

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED  
 SOURCE: Esri Aerial Imagery (2015); CHSRA (4/2016); US Census Bureau American Community Survey (2009-2013)

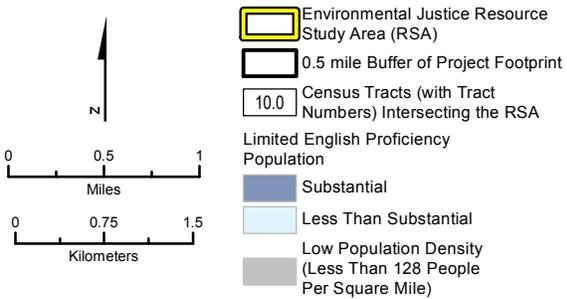


**Figure 5-A-5**  
 Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
 Page 7 of 12



FILE: Y:\HSR\_BP\GIS\IMXD\5.2.7\_CIAVEIR\_EIS\CIA\_EJ\_LimitedEnglishProficiency.mxd (9/30/2019)

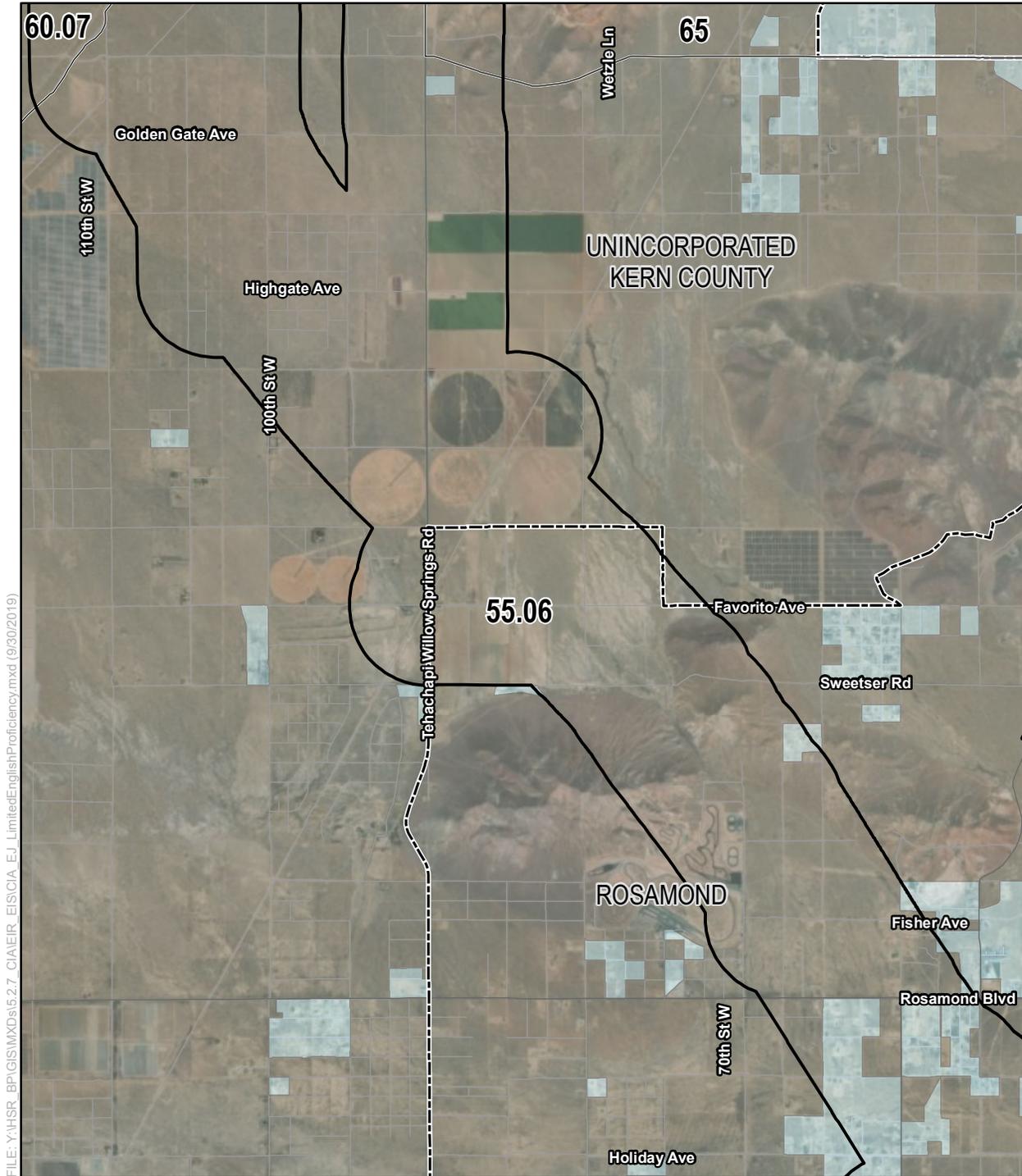
PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED  
 SOURCE: Esri Aerial Imagery (2015); CHSRA (4/2016); US Census Bureau American Community Survey (2009-2013)



**City/Census Designated Place**

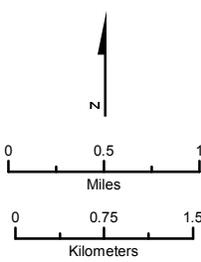
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**Figure 5-A-5**  
 Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
 Page 8 of 12



FILE: Y:\HSR\_BP\GIS\MXDs\5.2.7\_CIA\AIR\_EIS\CIA\_EJ\_LimitedEnglishProficiency.mxd (9/30/2019)

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED  
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**Figure 5-A-5**  
 Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
 Page 9 of 12