

California High-Speed Rail Authority

# *Bakersfield to Palmdale*

## *Project Section*

**Final Environmental Impact Report/  
Environmental Impact Statement**

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

**May 2021**



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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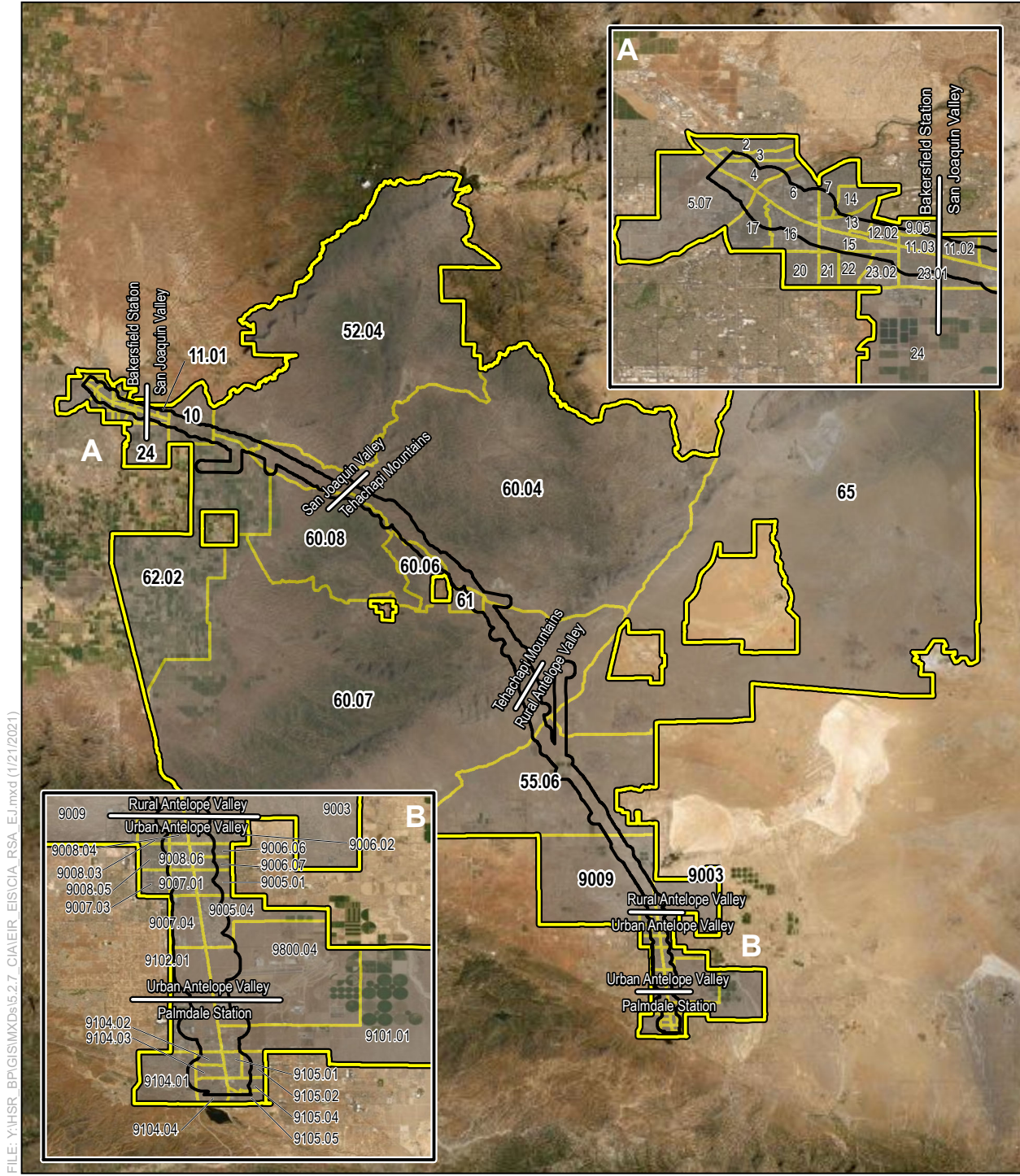
## APPENDIX 5-A: FIGURES

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)

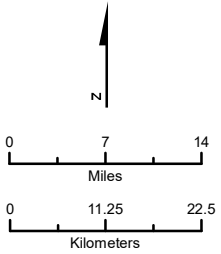
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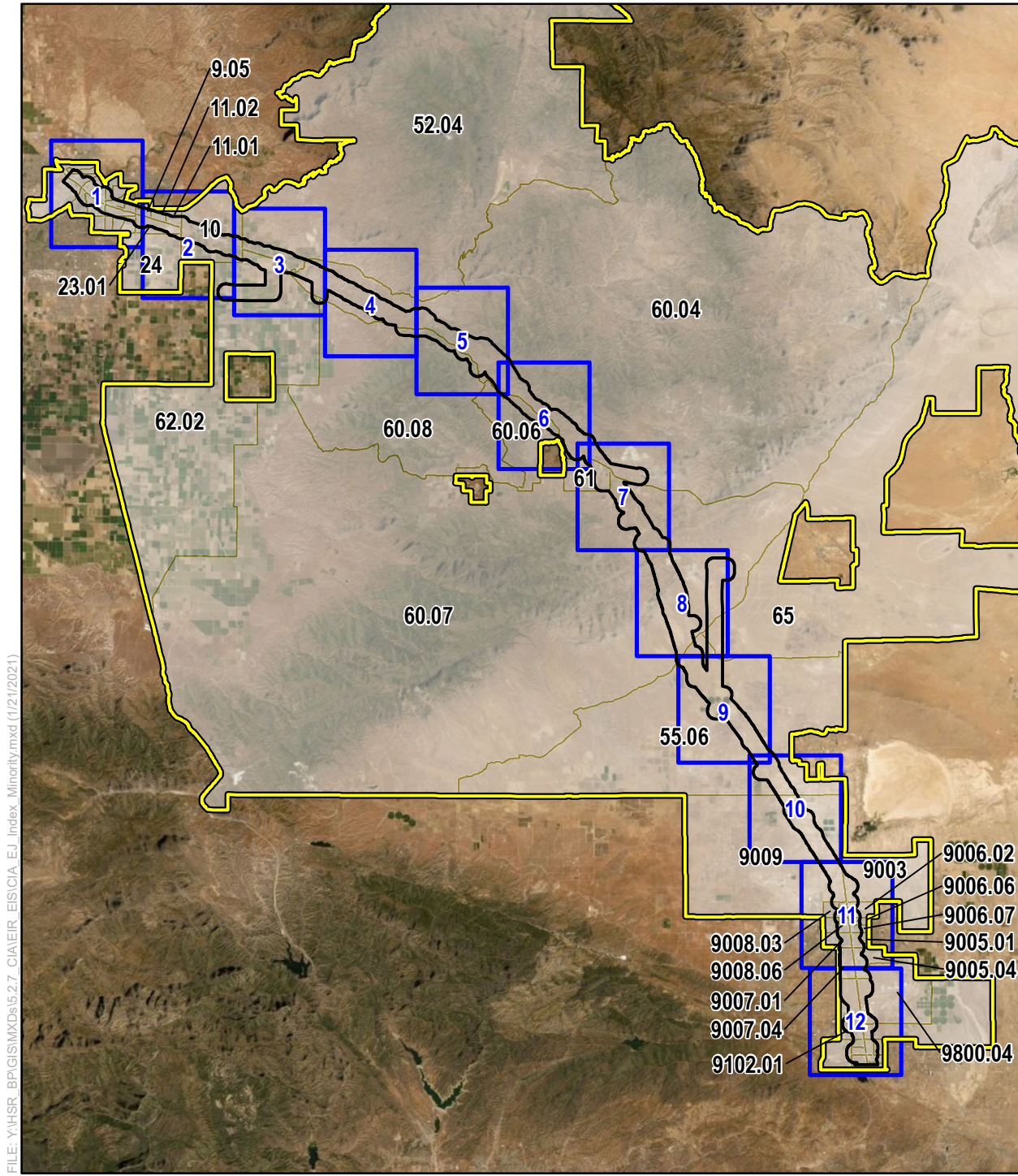
SOURCE: Esri Aerial Imagery (2015); Esri (2014); CHRSA (4/2016); US Census (2010)



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

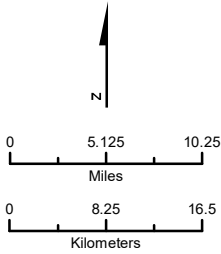
**Figure 5-A-1**  
Environmental Justice  
Resource Study Area





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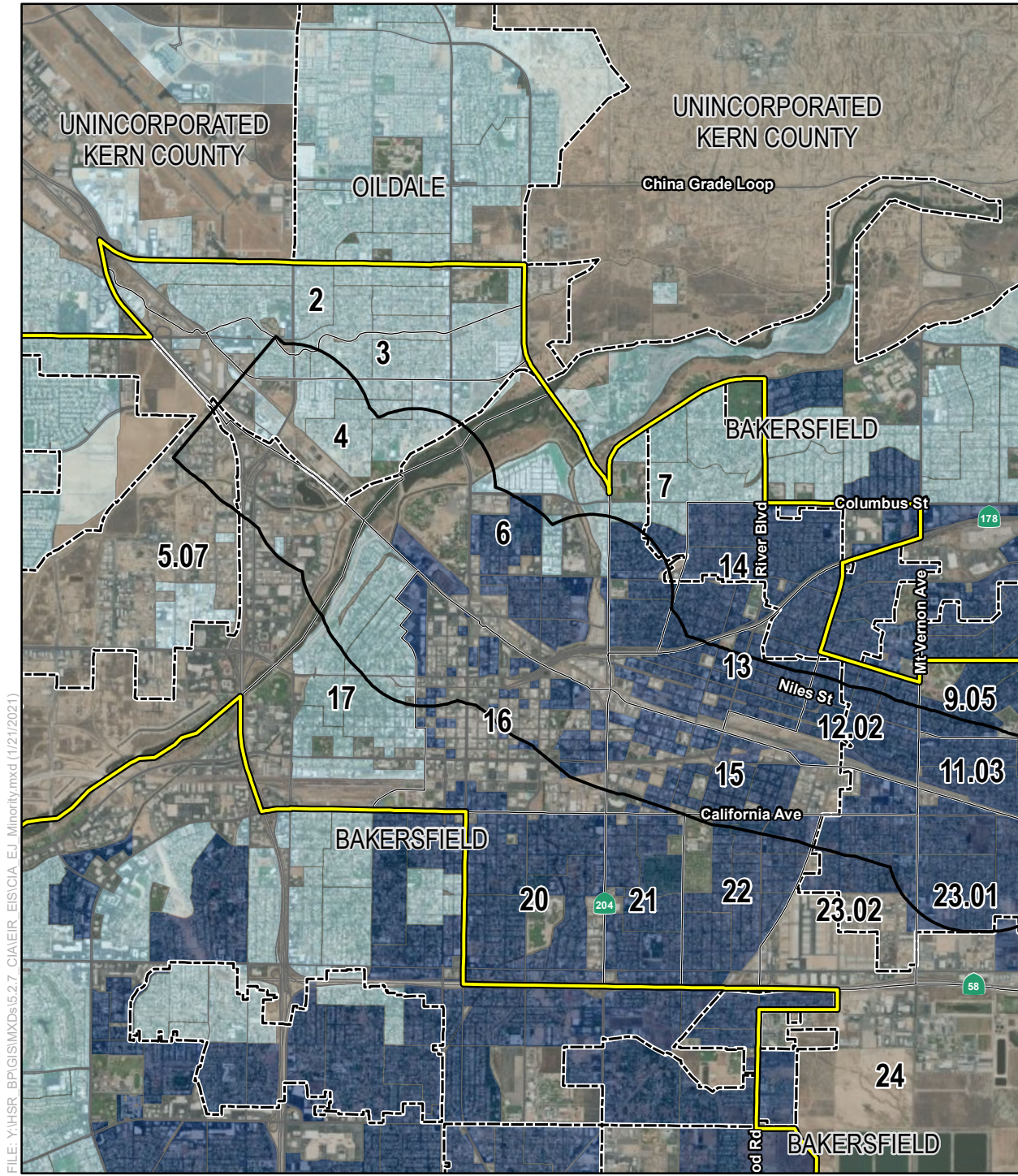


- Minority Population Page Index
- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts Intersecting the RSA

**Figure 5-A-2**

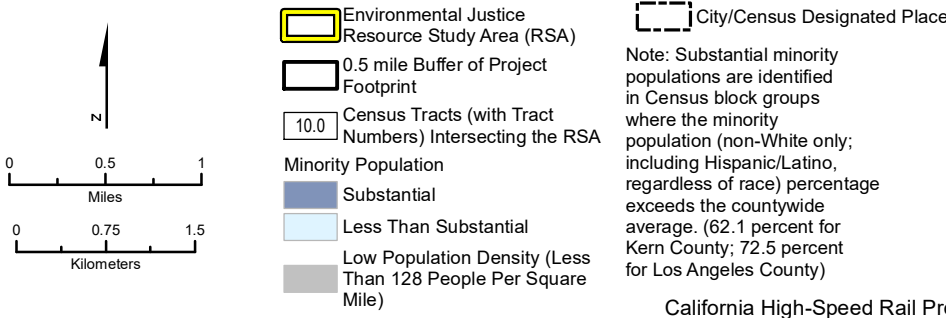
Minority Populations in the Environmental Justice Resource Study Area  
Map Index for Pages 1-12





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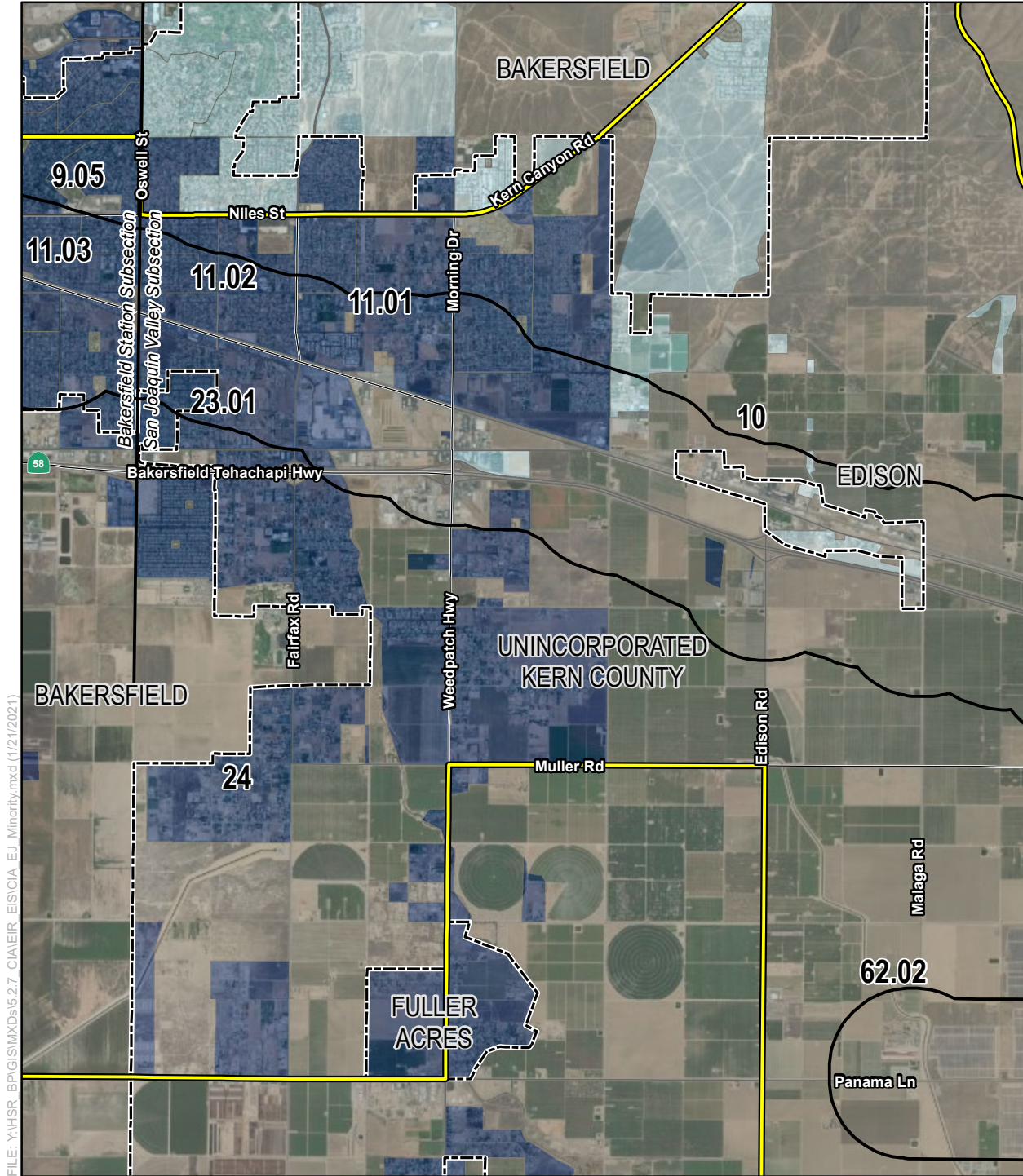
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**Figure 5-A-2**

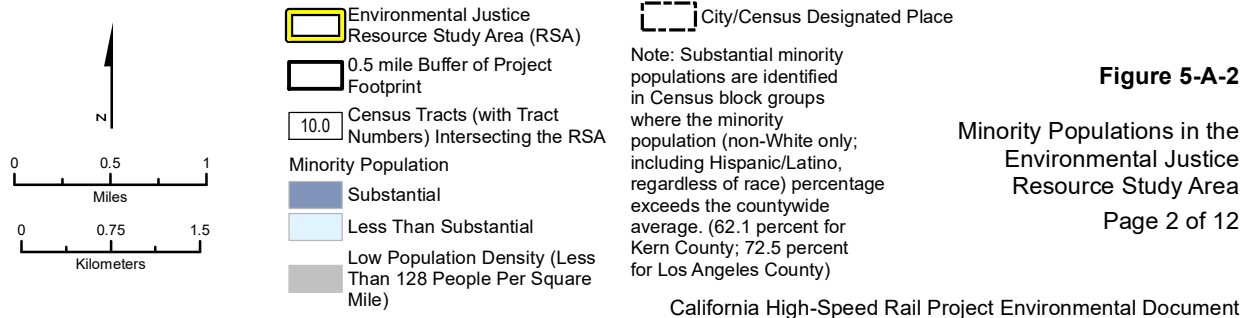
Minority Populations in the Environmental Justice Resource Study Area

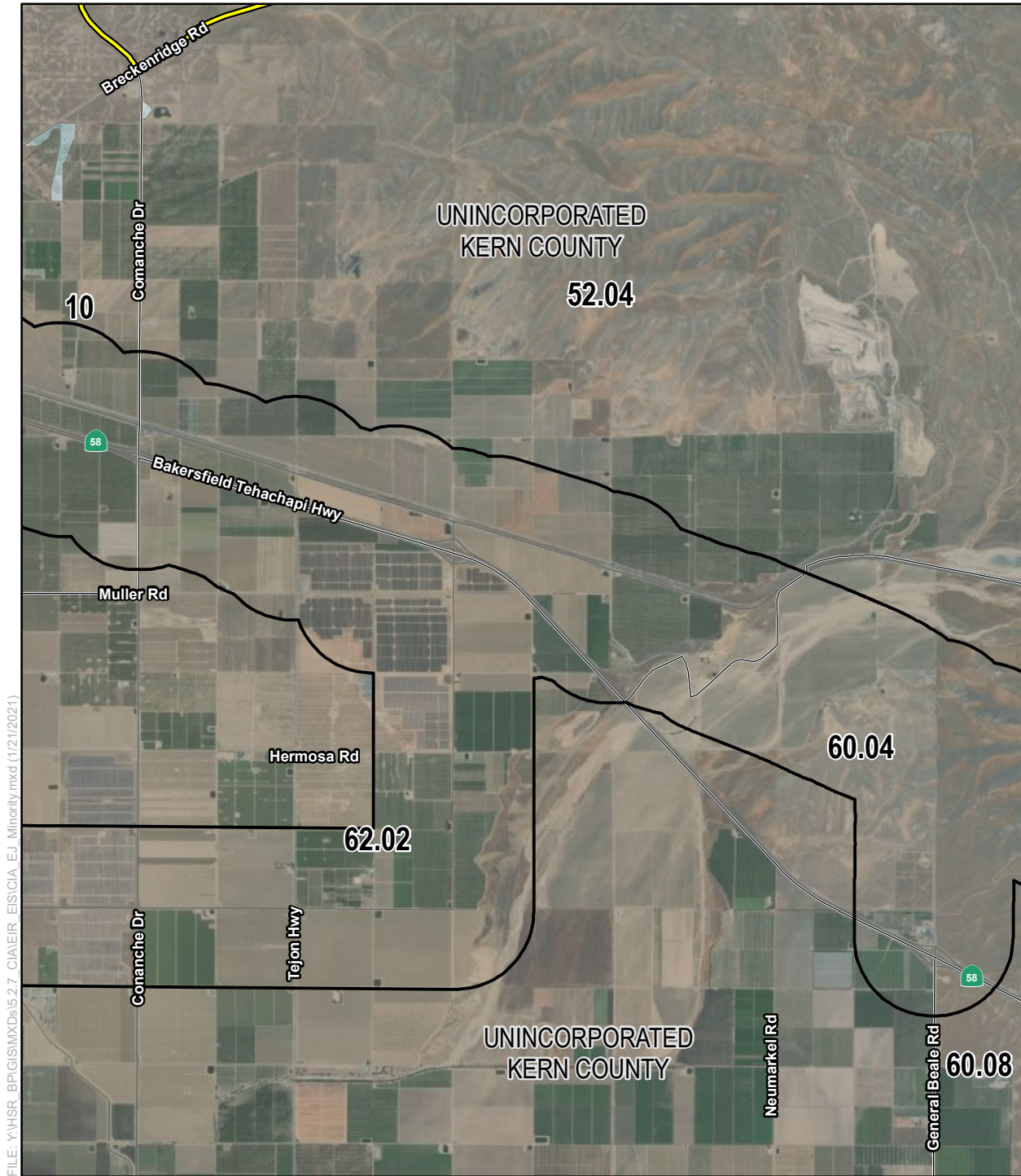




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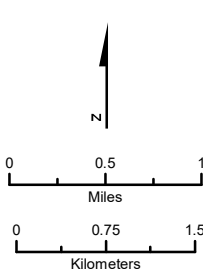
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- Minority Population
  - Substantial
  - Less Than Substantial
  - Low Population Density (Less Than 128 People Per Square Mile)

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)

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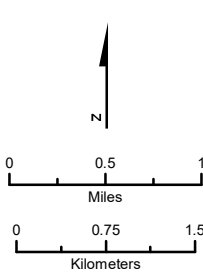
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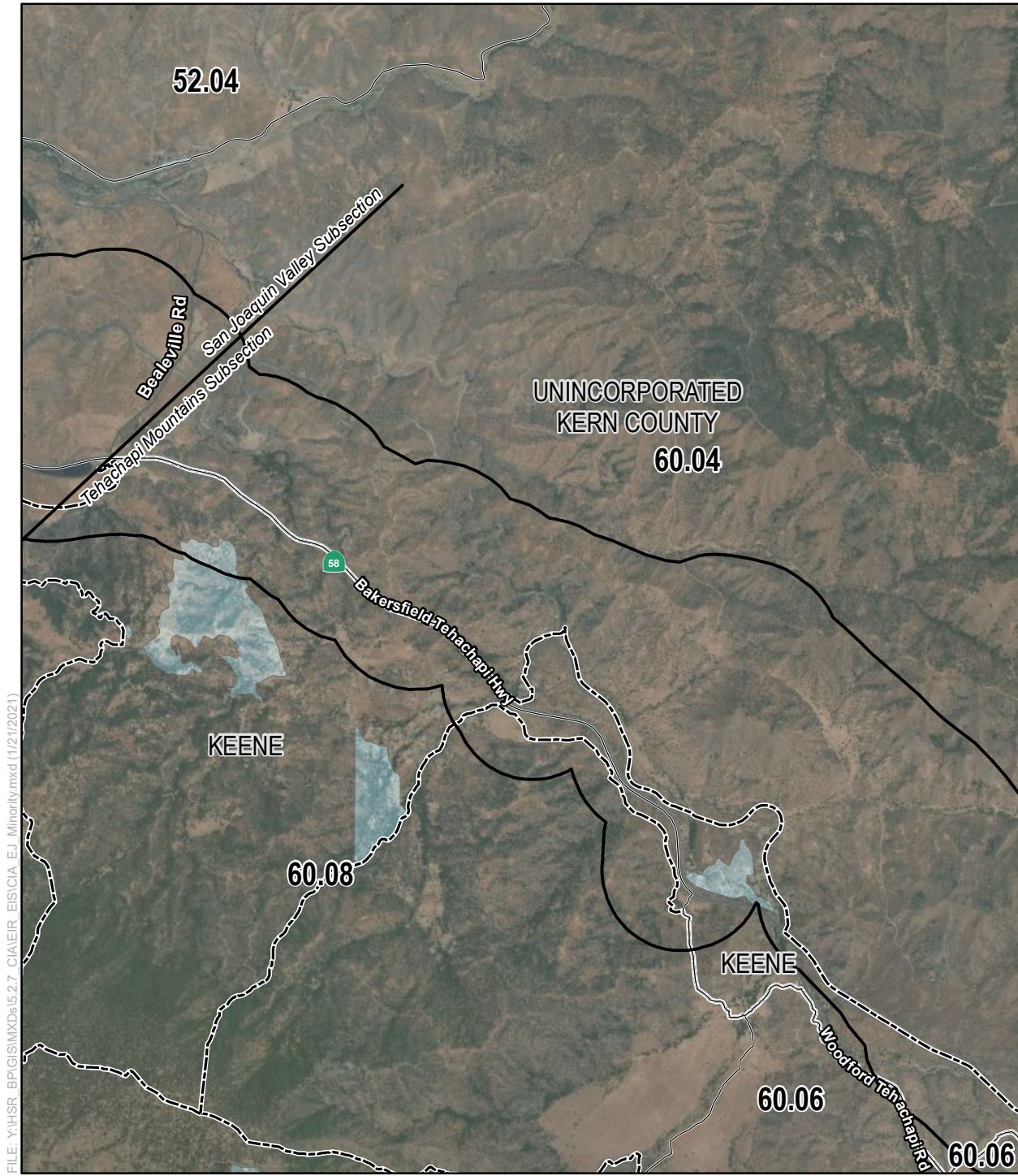


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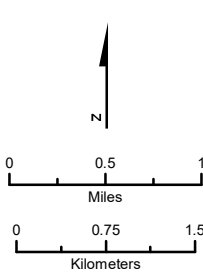
Minority Populations in the Environmental Justice Resource Study Area  
Page 4 of 12





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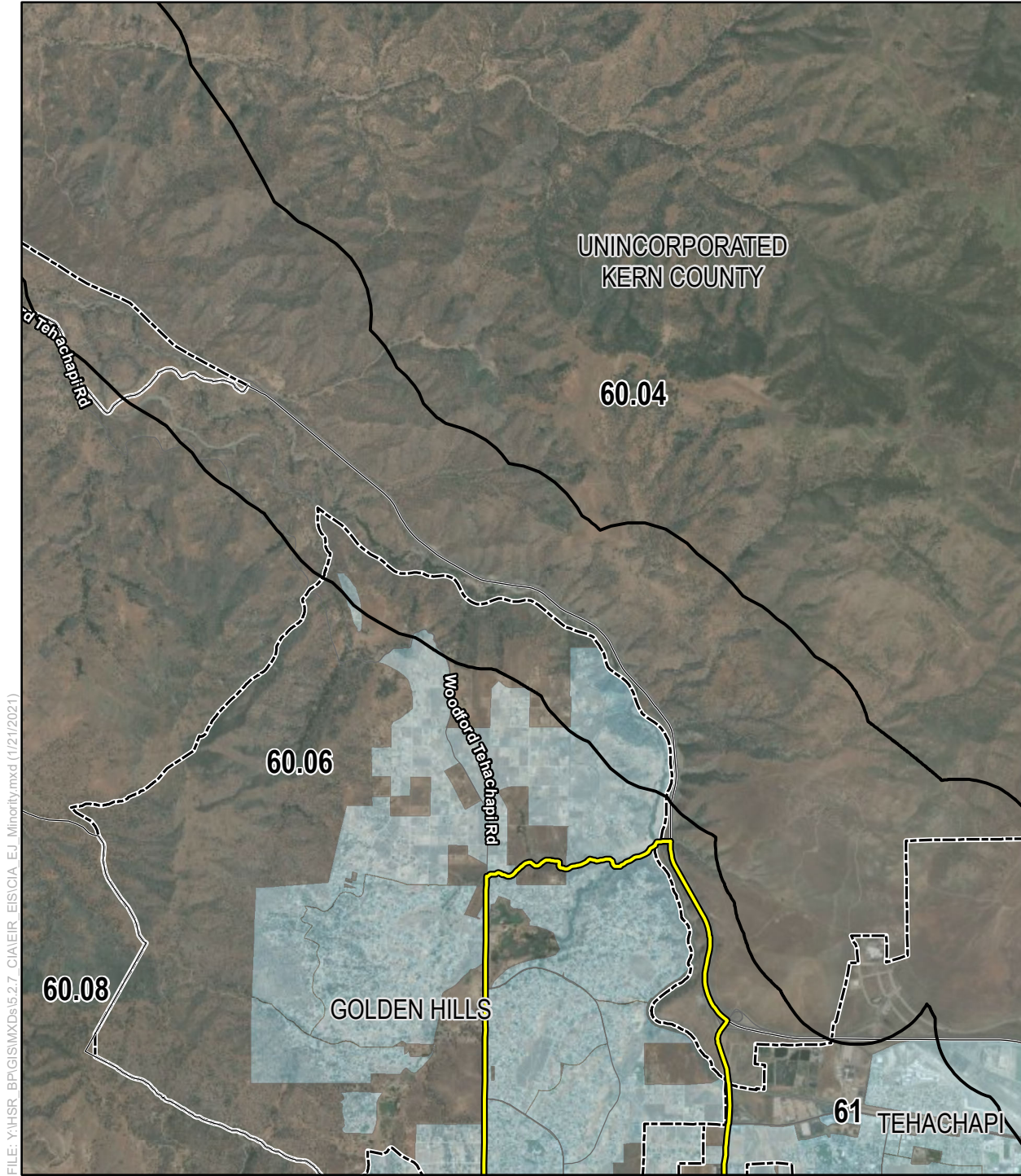


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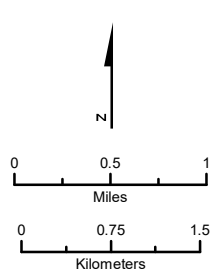
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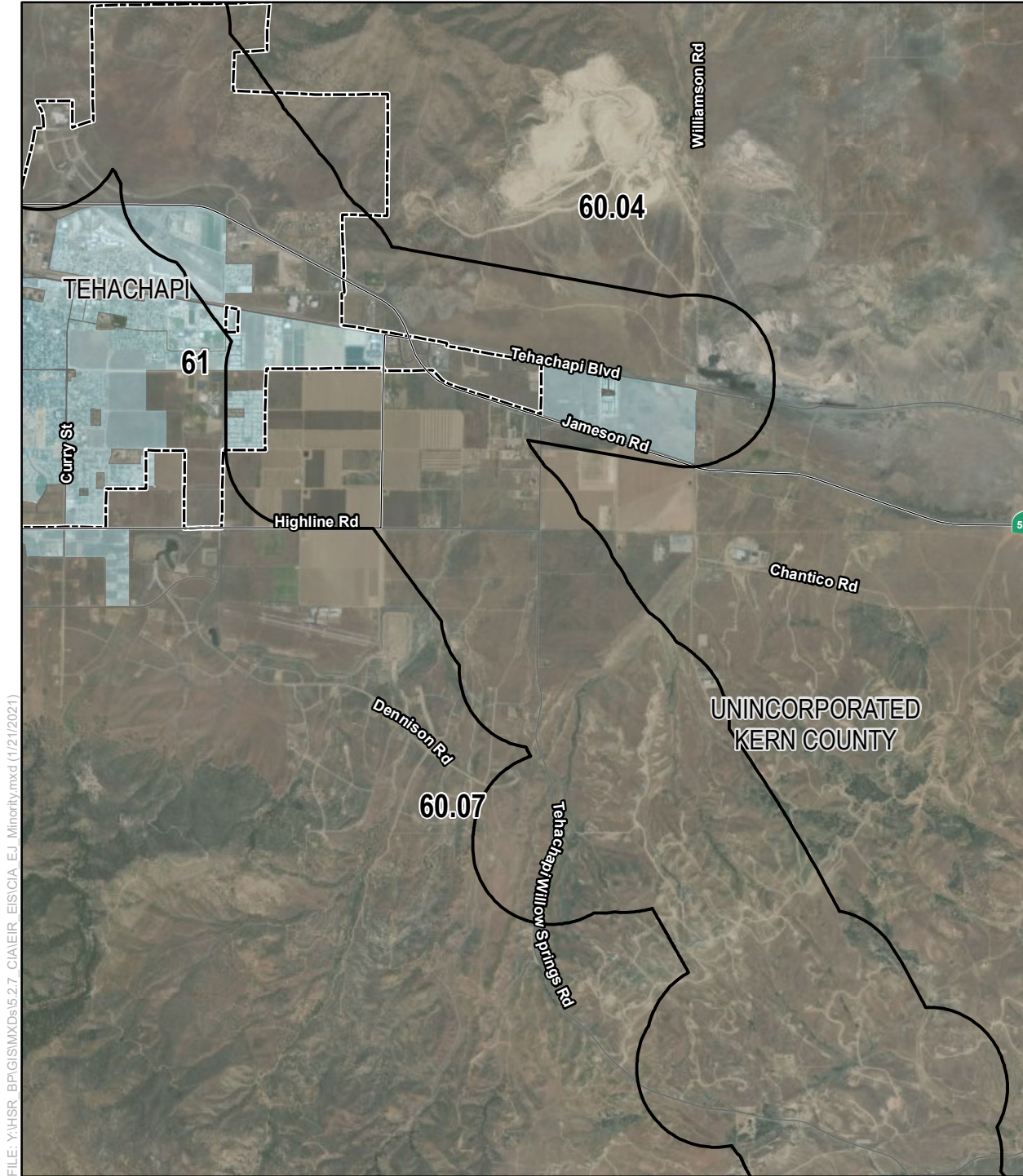


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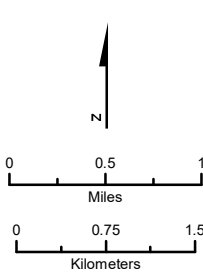
Minority Populations in the Environmental Justice Resource Study Area  
Page 6 of 12





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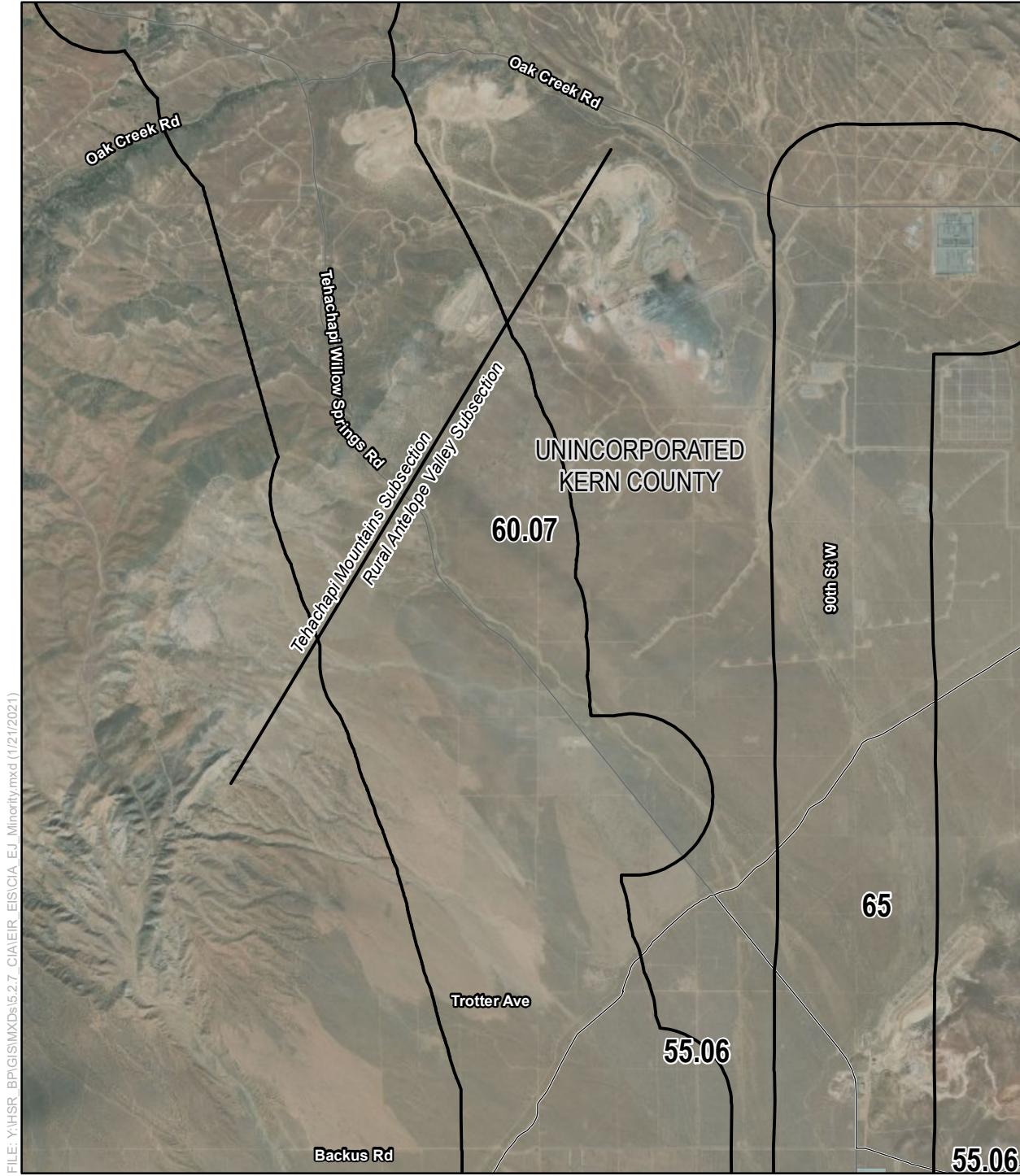
SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



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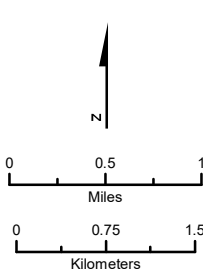
**Figure 5-A-2**

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



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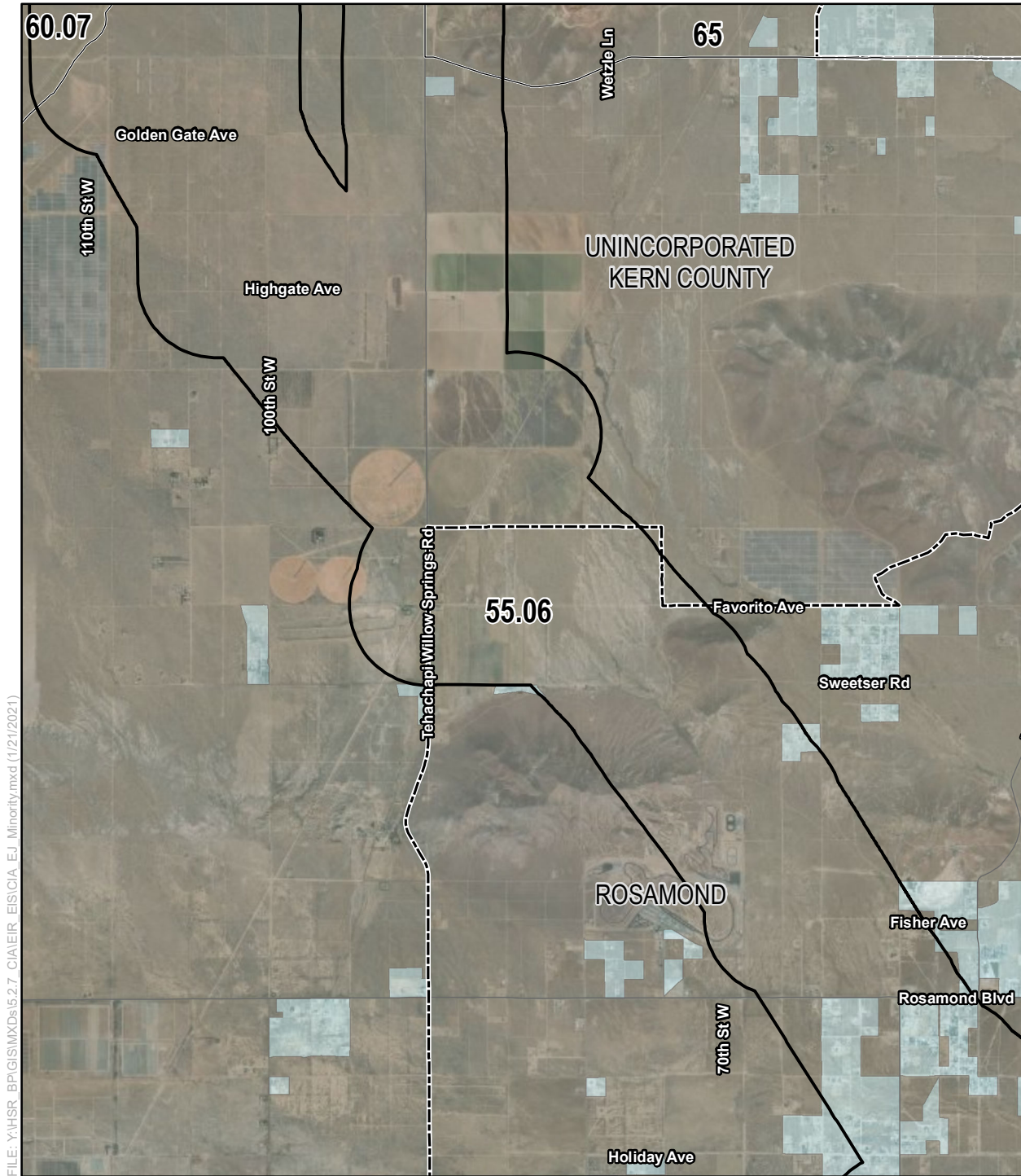
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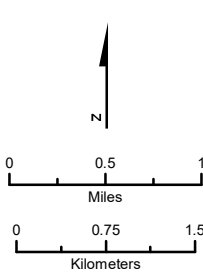
**Figure 5-A-2**  
 Minority Populations in the Environmental Justice Resource Study Area  
 Page 8 of 12





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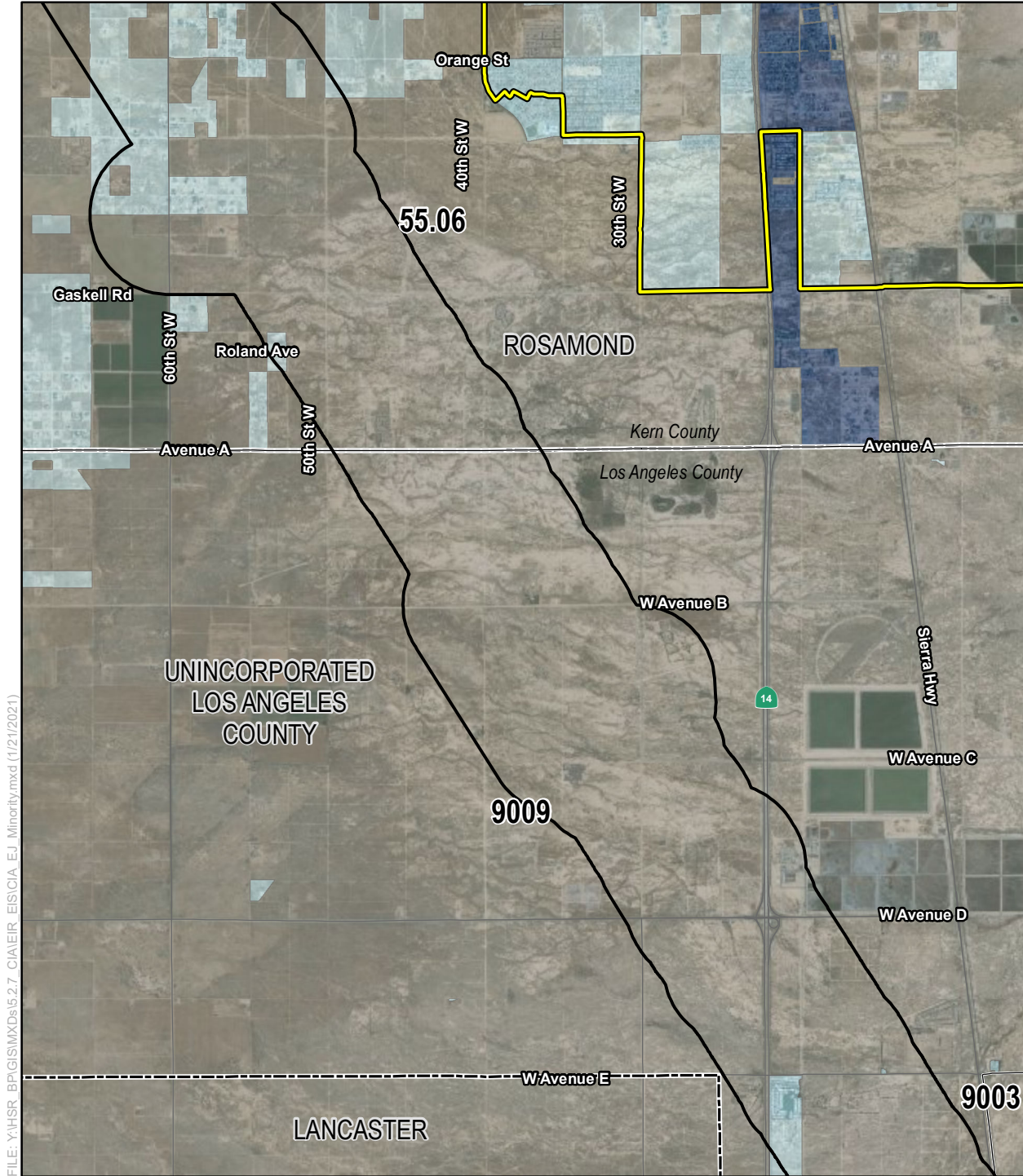
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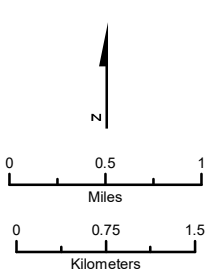
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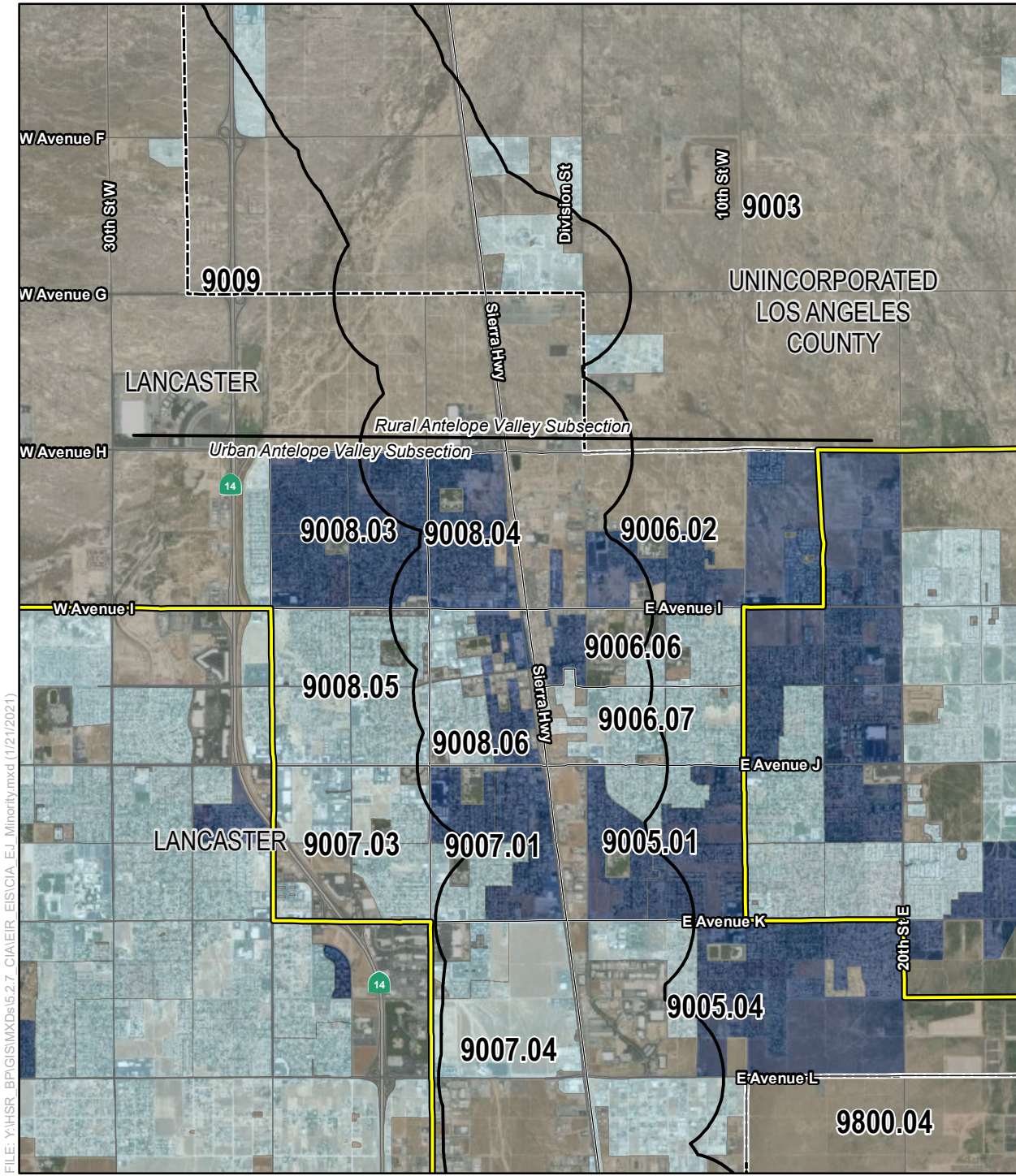
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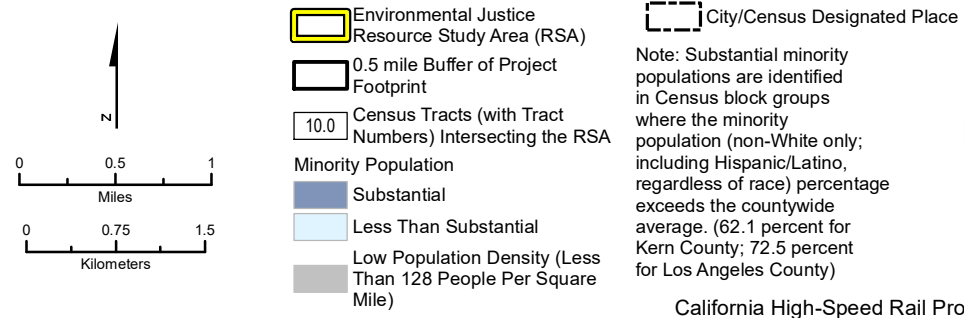
Minority Populations in the Environmental Justice Resource Study Area  
Page 10 of 12





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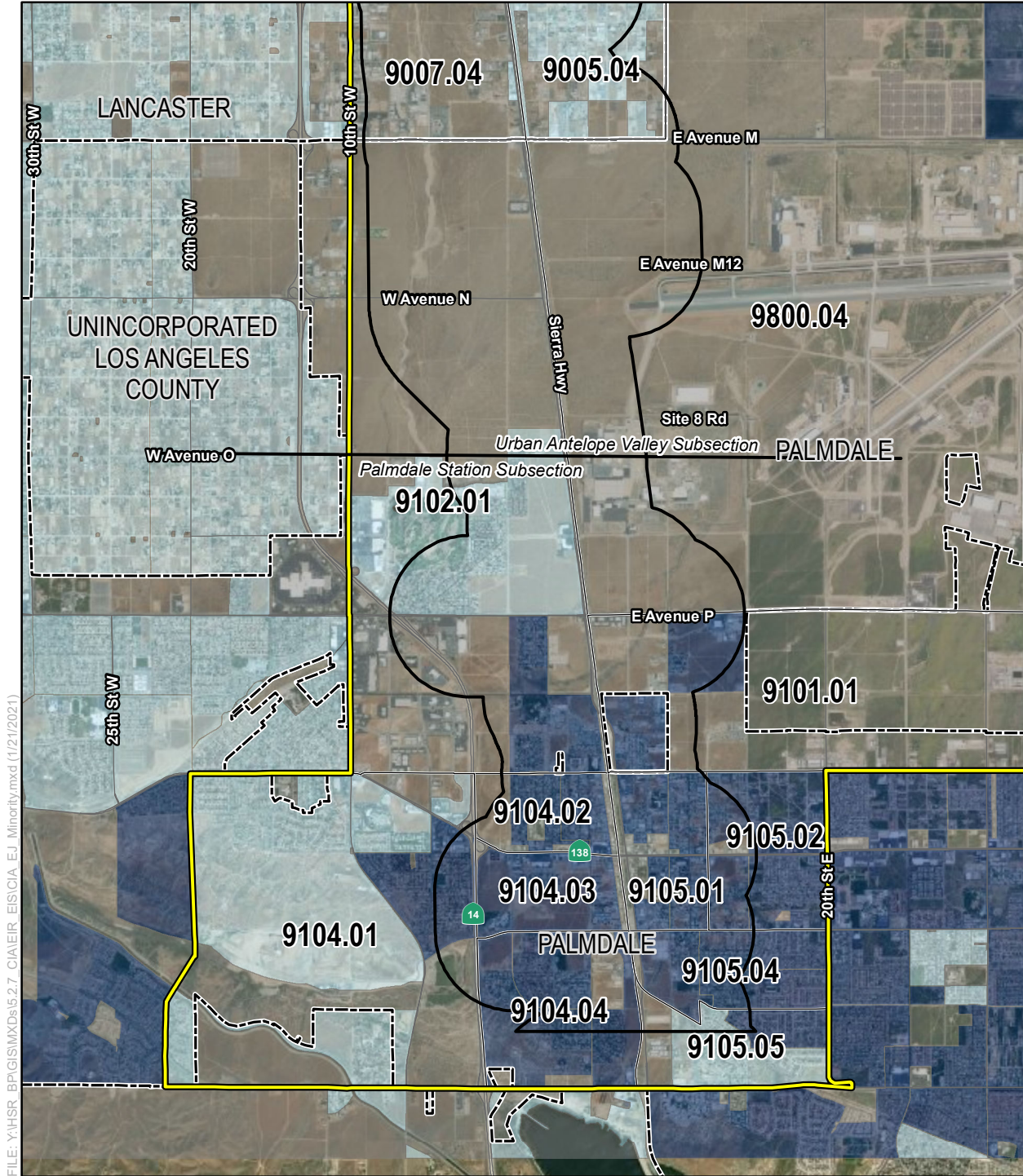


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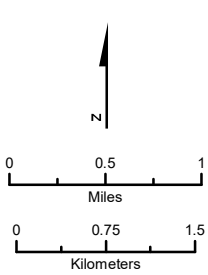
Minority Populations in the Environmental Justice Resource Study Area





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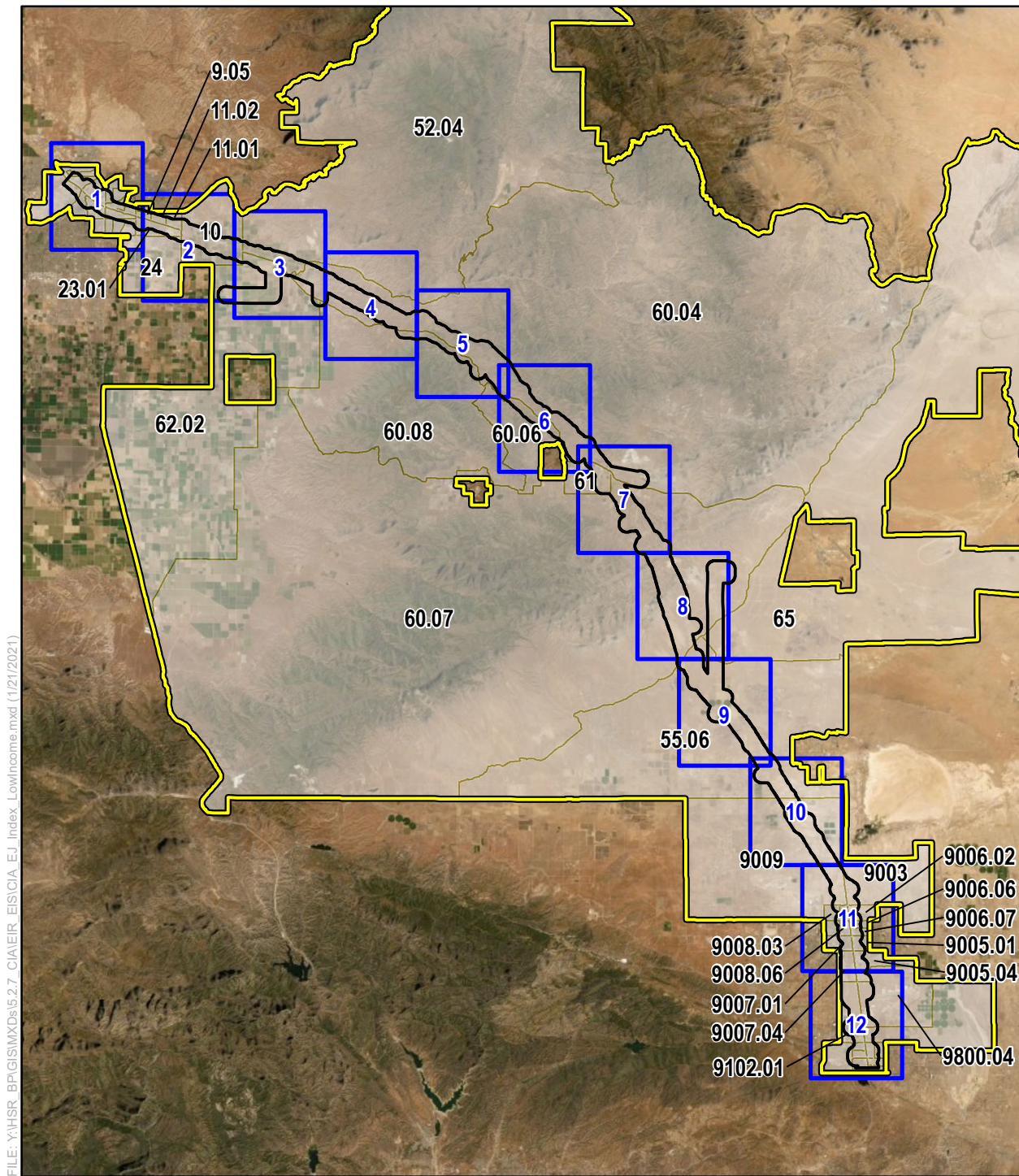


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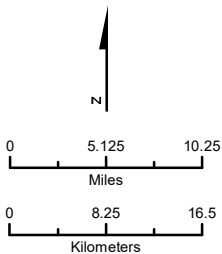
Minority Populations in the Environmental Justice Resource Study Area  
Page 12 of 12





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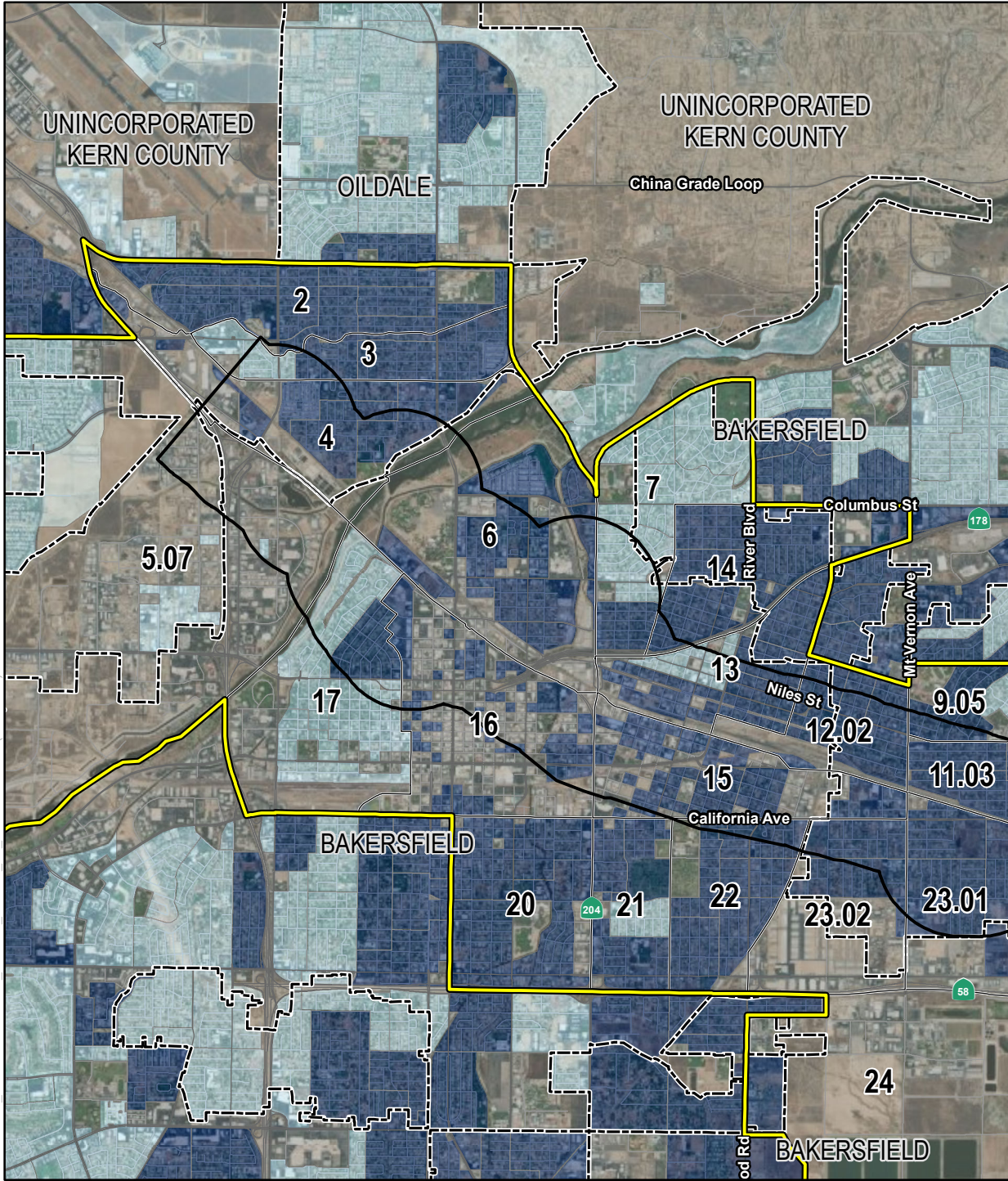


- Low-Income Population Page Index
- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts Intersecting the RSA

**Figure 5-A-3**

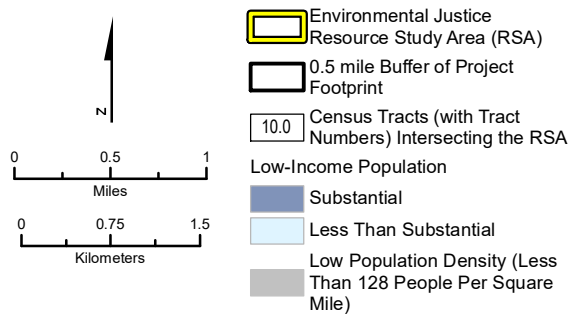
Low-Income Populations in the Environmental Justice Resource Study Area  
Map Index for Pages 1-12





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SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



City/Census Designated Place

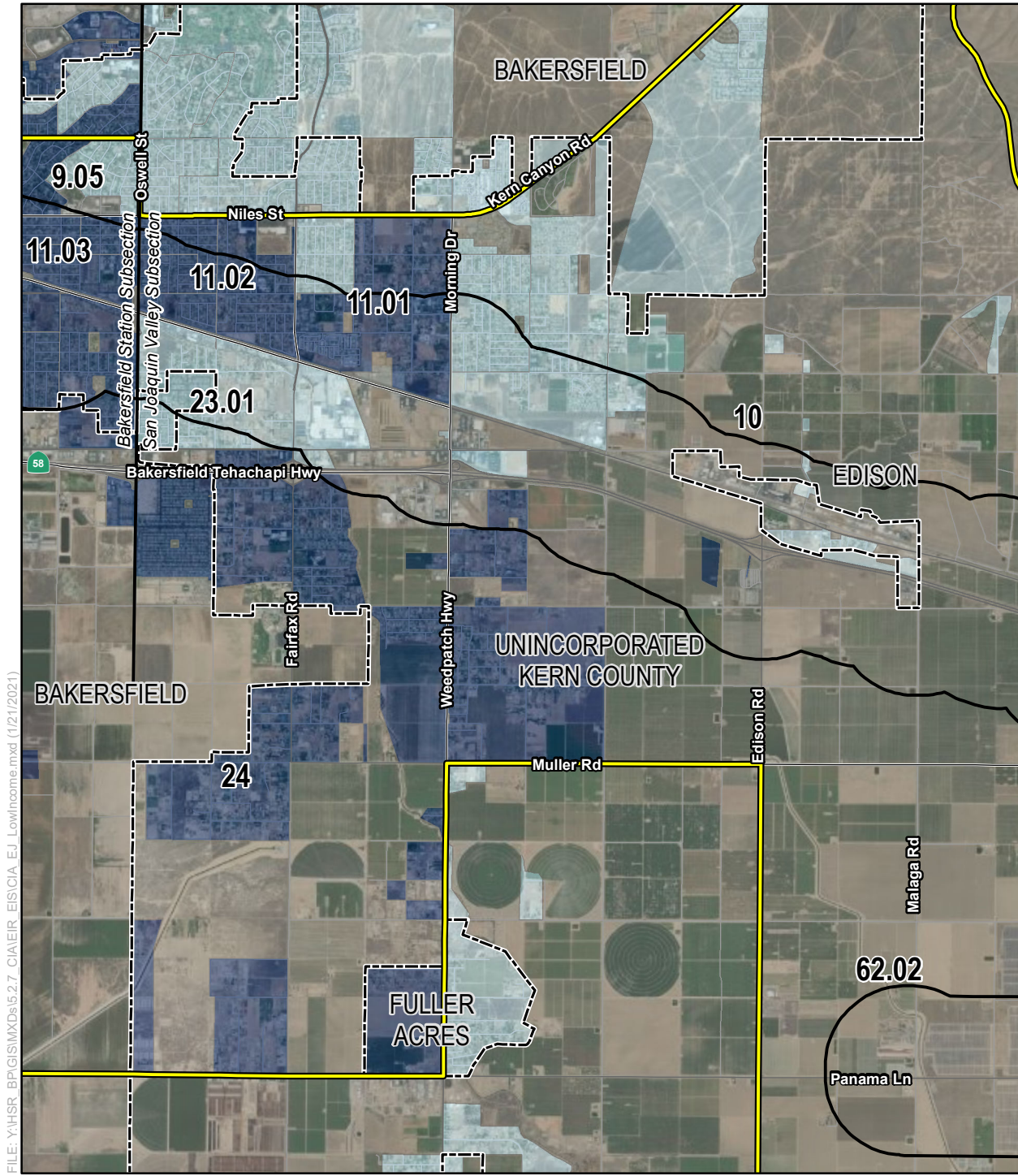
Note: Substantial low income populations are identified in Census block groups where the low income population percentage (income below the U.S. Census poverty threshold) exceeds the countywide average. (22.9 percent for Kern County; 17.8 percent for Los Angeles County)

**Figure 5-A-3**

Low-Income Populations in the Environmental Justice Resource Study Area

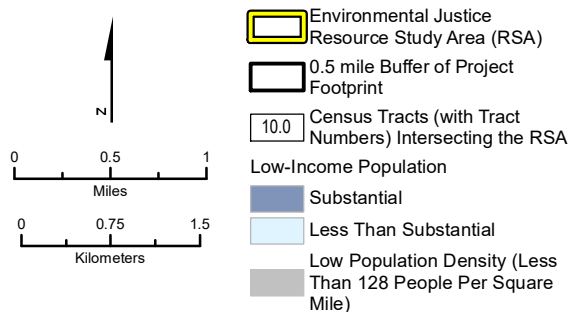
Page 1 of 12





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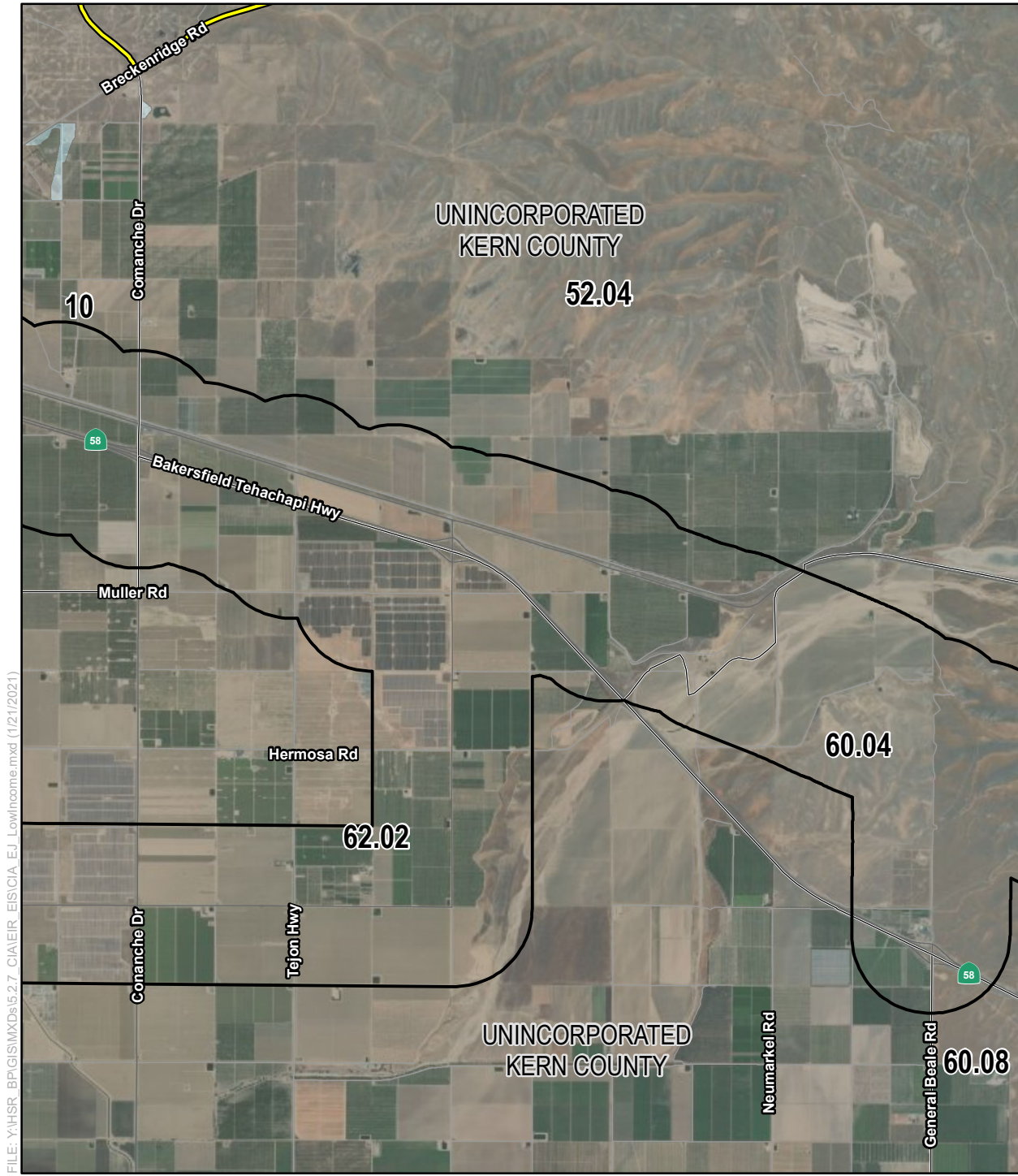
**City/Census Designated Place**

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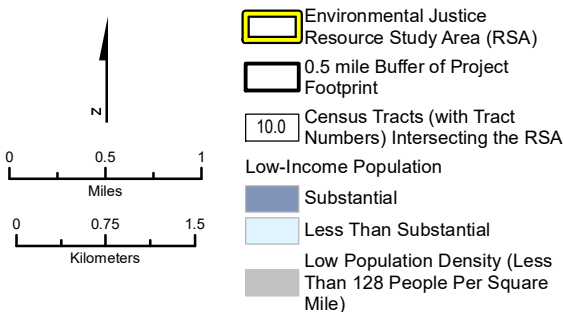
Low-Income Populations in the Environmental Justice Resource Study Area  
Page 2 of 12





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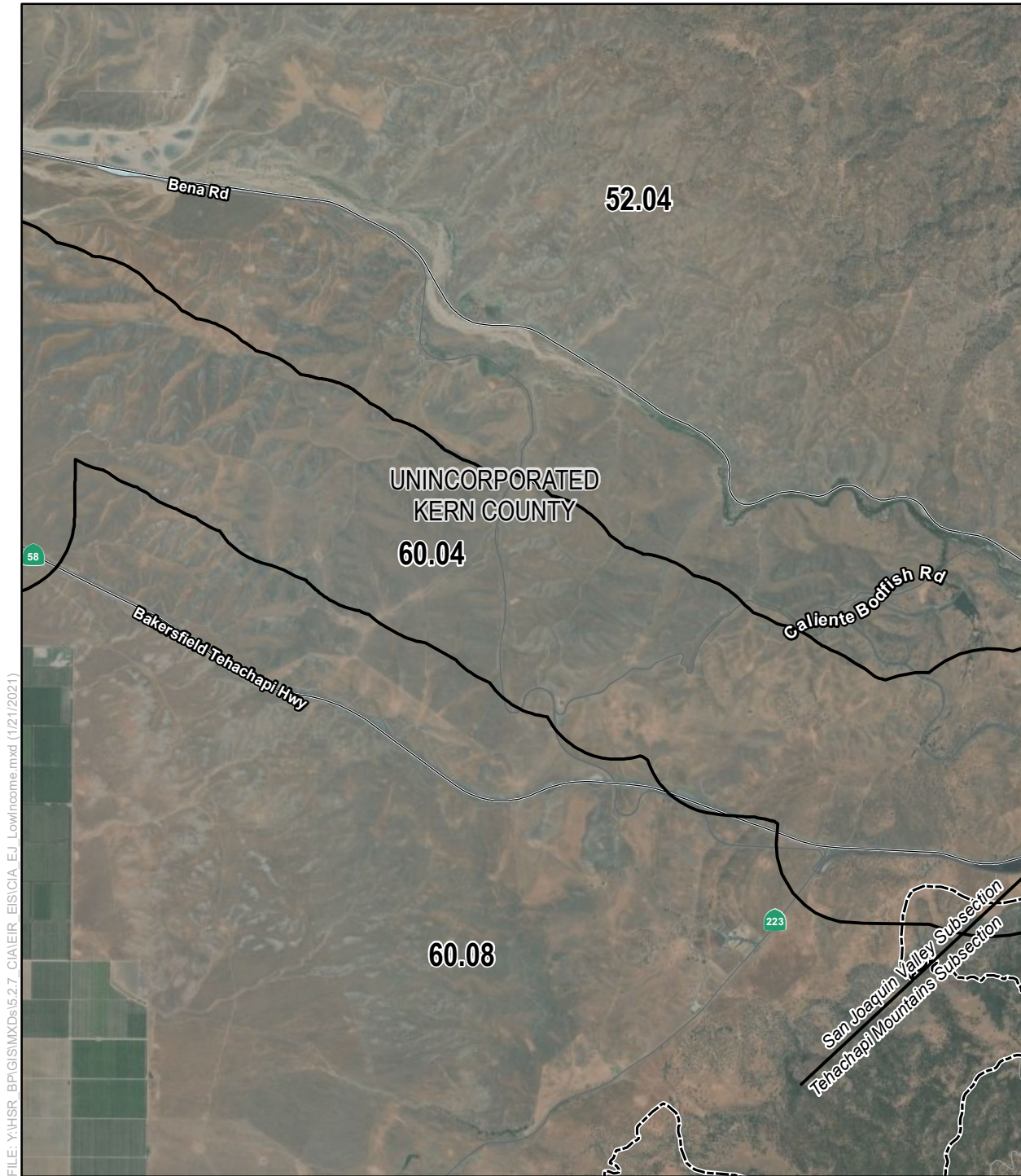
SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



**City/Census Designated Place**

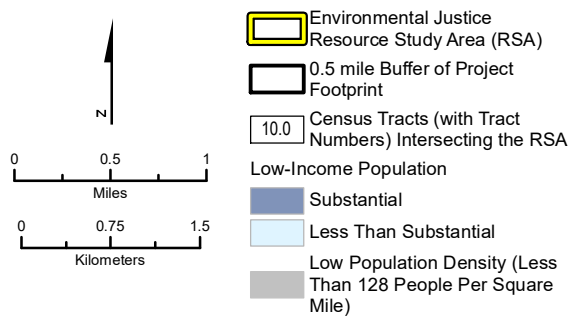
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**Figure 5-A-3**  
 Low-Income Populations in the Environmental Justice Resource Study Area  
 Page 3 of 12



FILE: Y:\HSR\_BP\GIS\IMXD\5.2.7\_CIA\EIR\_EIS\CIA\_EJ\_LowIncome.mxd (1/21/2021)

SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



City/Census Designated Place

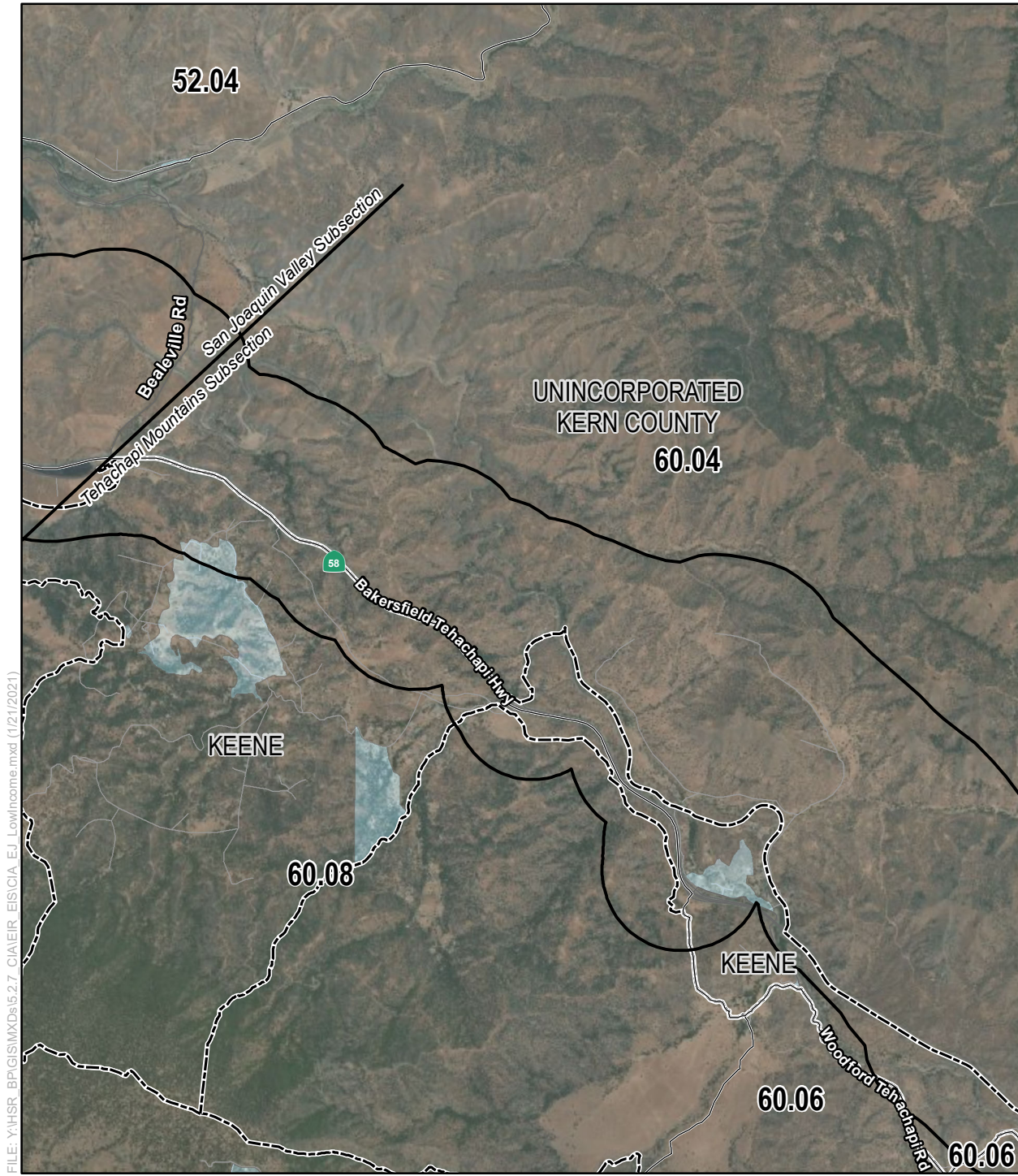
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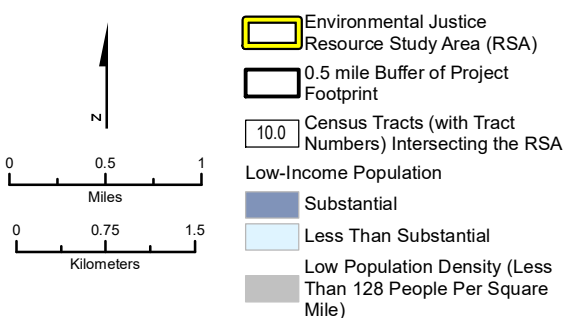
Page 4 of 12





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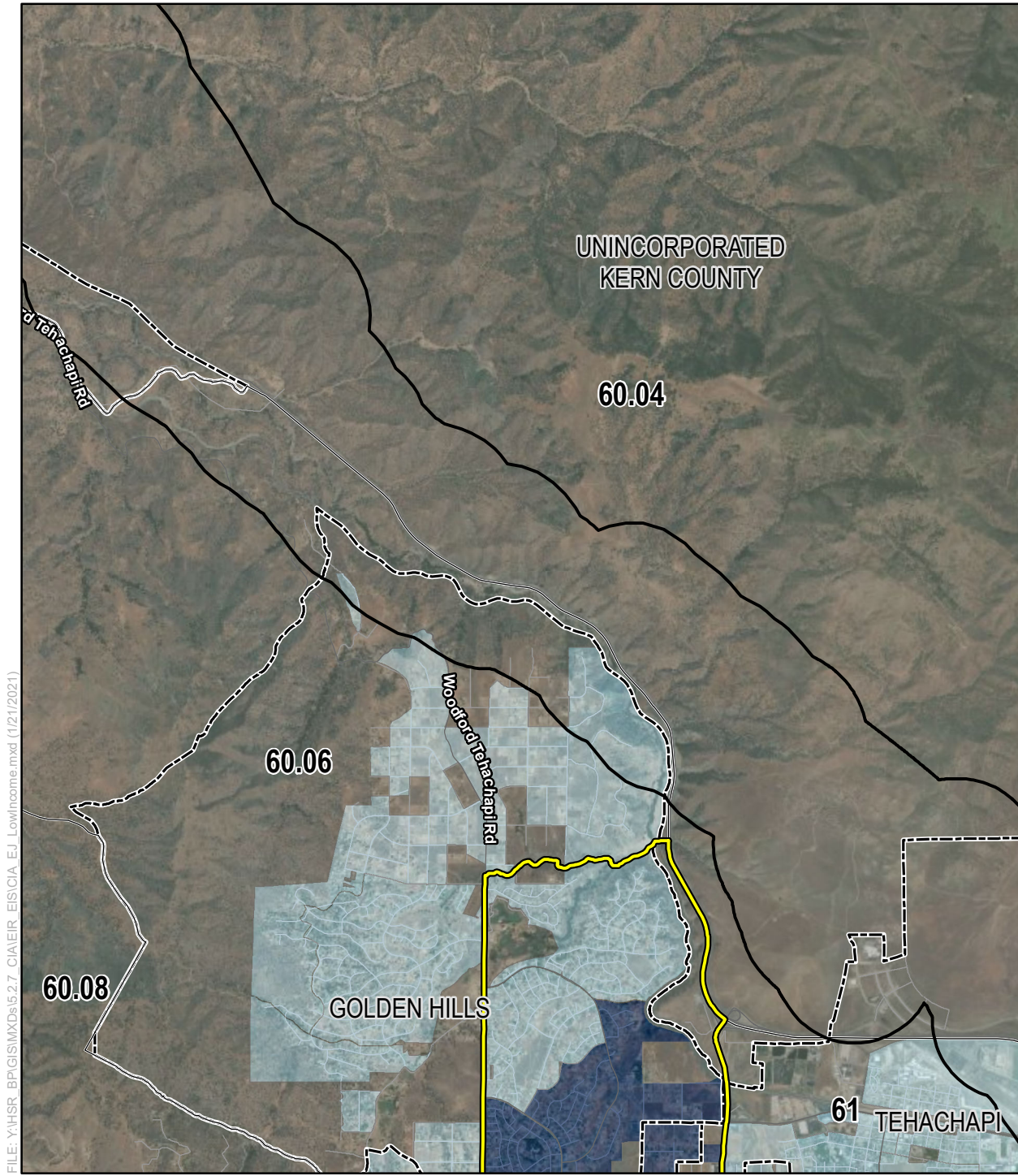
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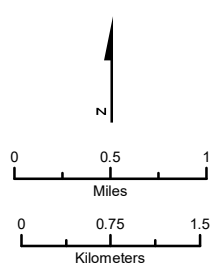
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- Less Than Substantial
- Low Population Density (Less Than 128 People Per Square Mile)

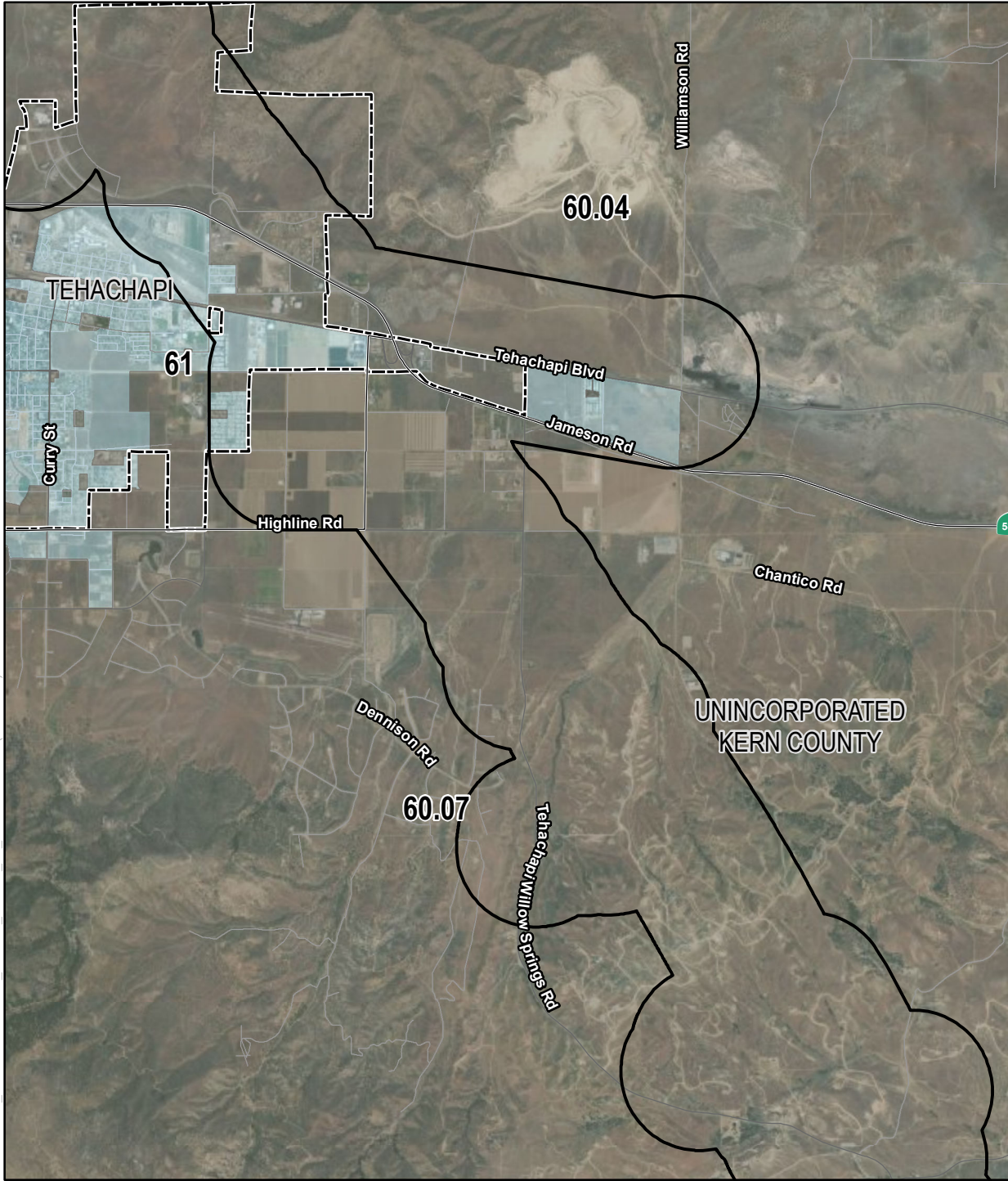
City/Census Designated Place

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**

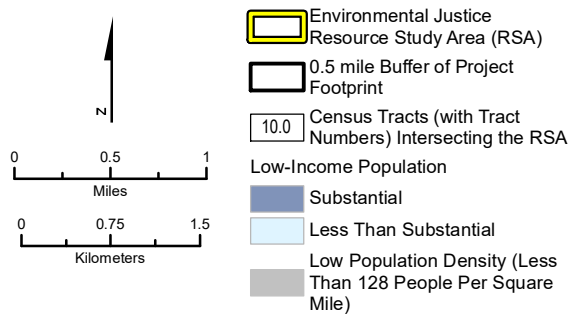
Low-Income Populations in the Environmental Justice Resource Study Area  
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FILE: Y:\HSR\_BP\GIS\MXDs\5.2.7\_CIA\EIR\_EIS\CIA\_EJ\_LowIncome.mxd (1/21/2021)

SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



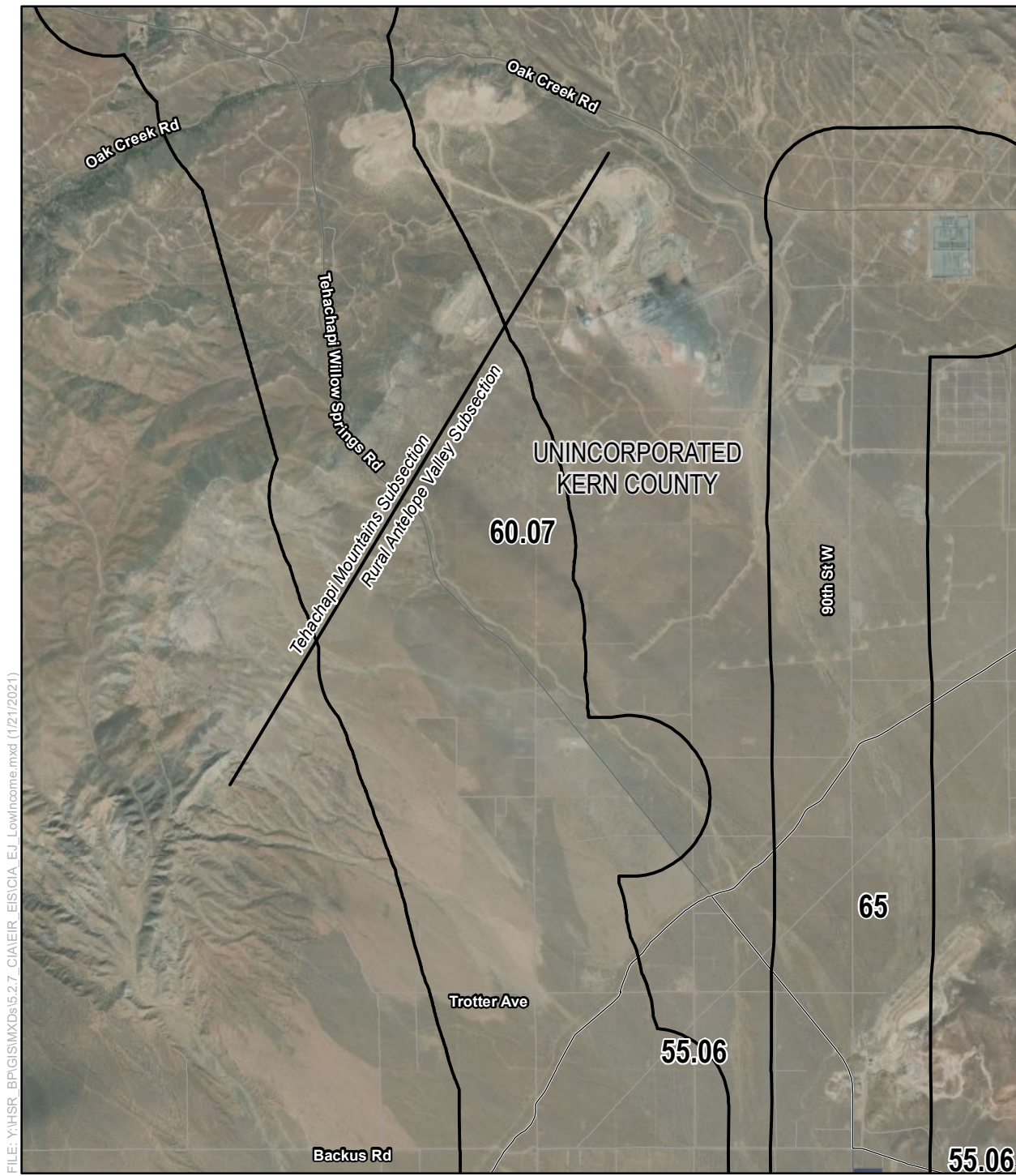
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**Figure 5-A-3**

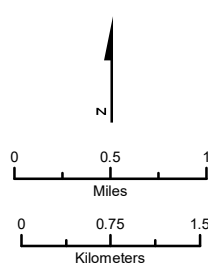
Low-Income Populations in the Environmental Justice Resource Study Area

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FILE: Y:\HSR\_BP\GIS\IMXD\5.2.7\_CIA\EIR\_EIS\CIA\_EJ\_LowIncome.mxd (1/21/2021)

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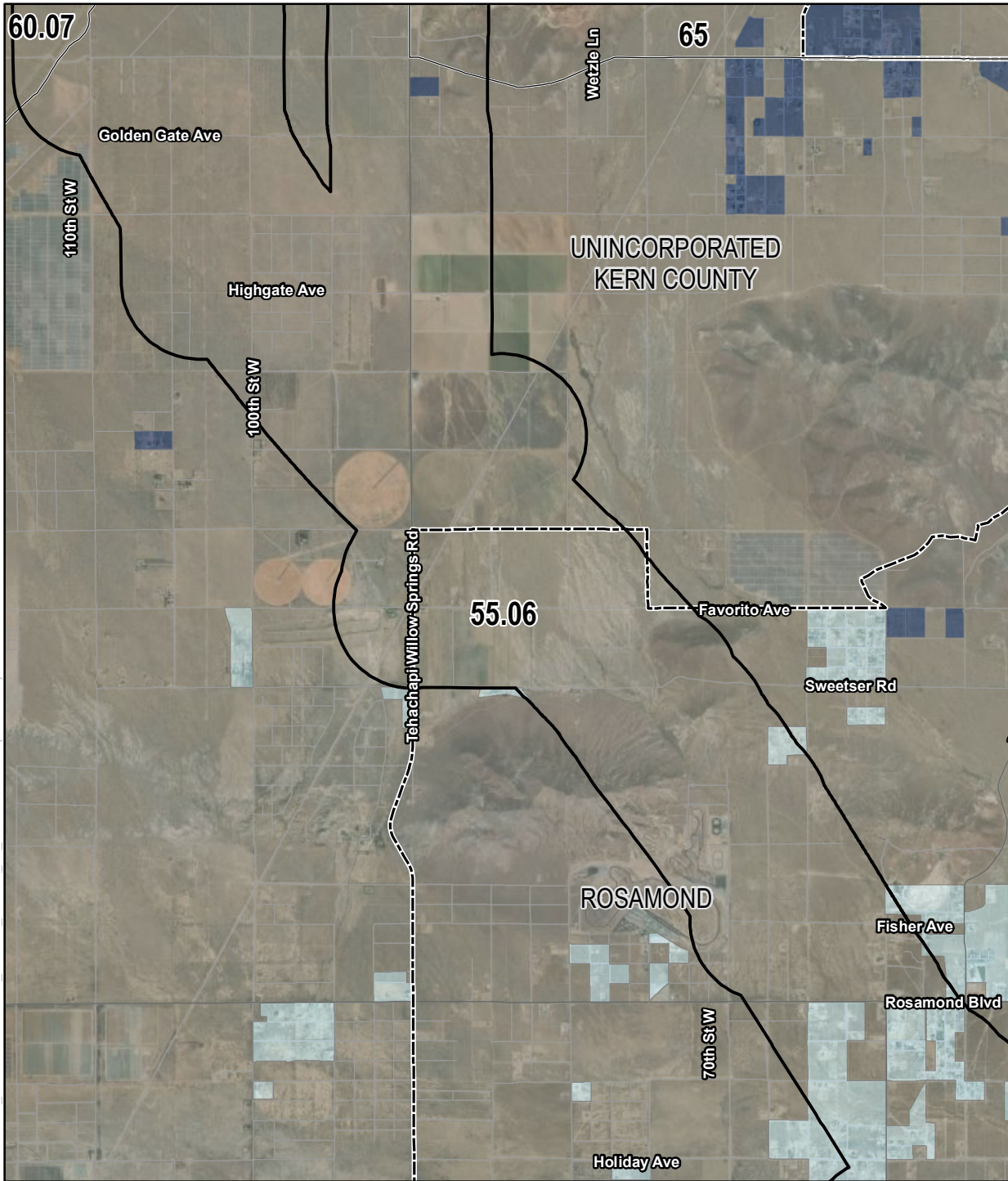
- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- 10.0 Census Tracts (with Tract Numbers) Intersecting the RSA
- Low-Income Population**
- Substantial
- Less Than Substantial
- Low Population Density (Less Than 128 People Per Square Mile)

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)

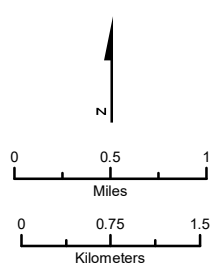
**Figure 5-A-3**  
 Low-Income Populations in the Environmental Justice Resource Study Area  
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SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



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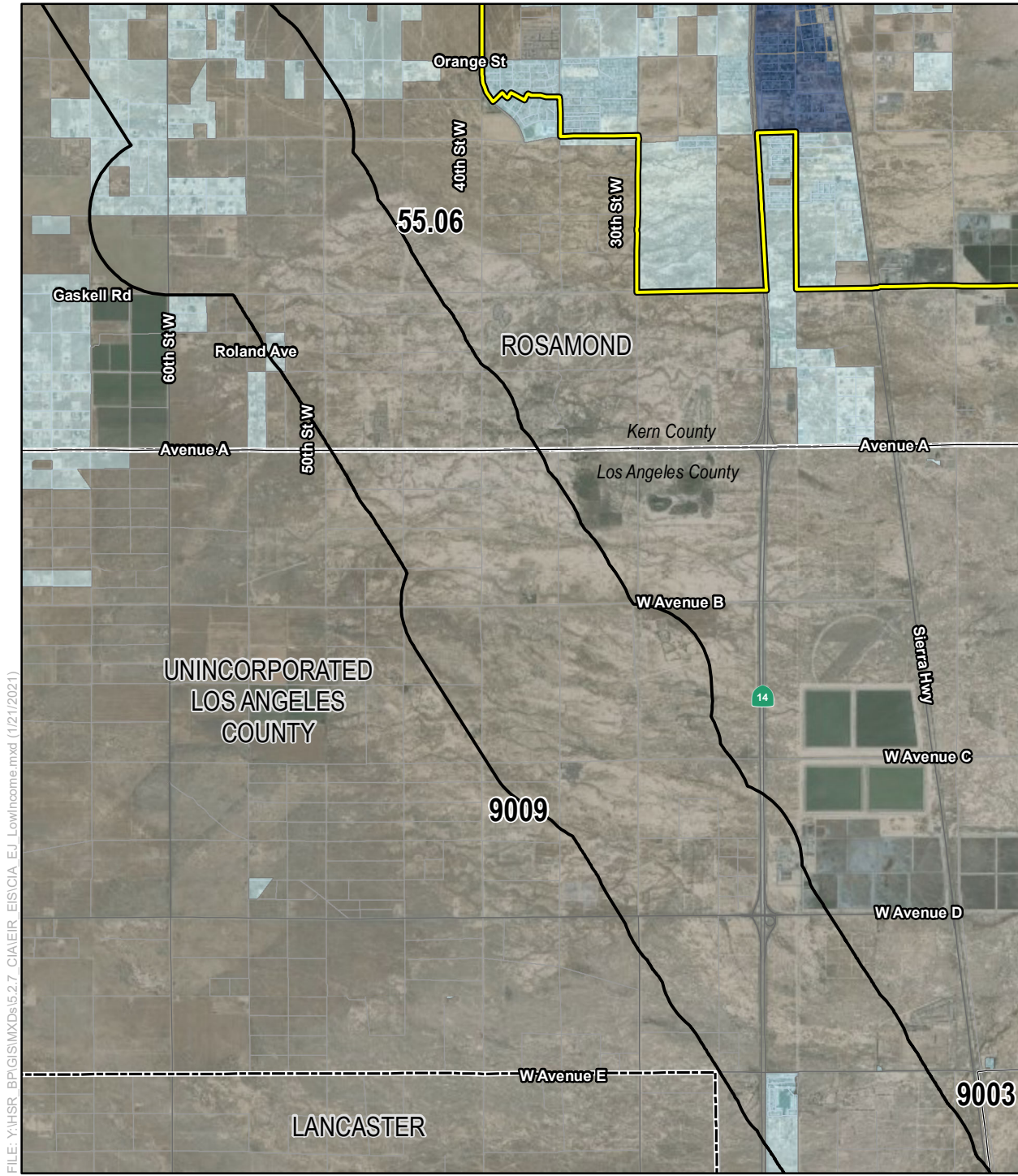
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**Figure 5-A-3**

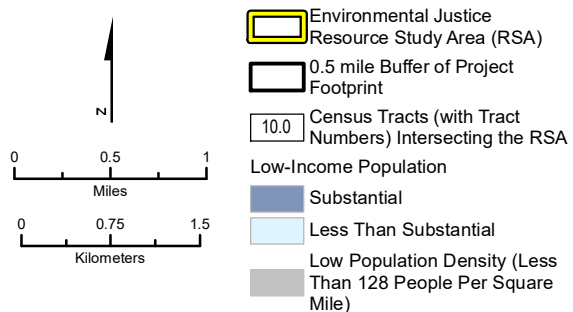
Low-Income Populations in the Environmental Justice Resource Study Area  
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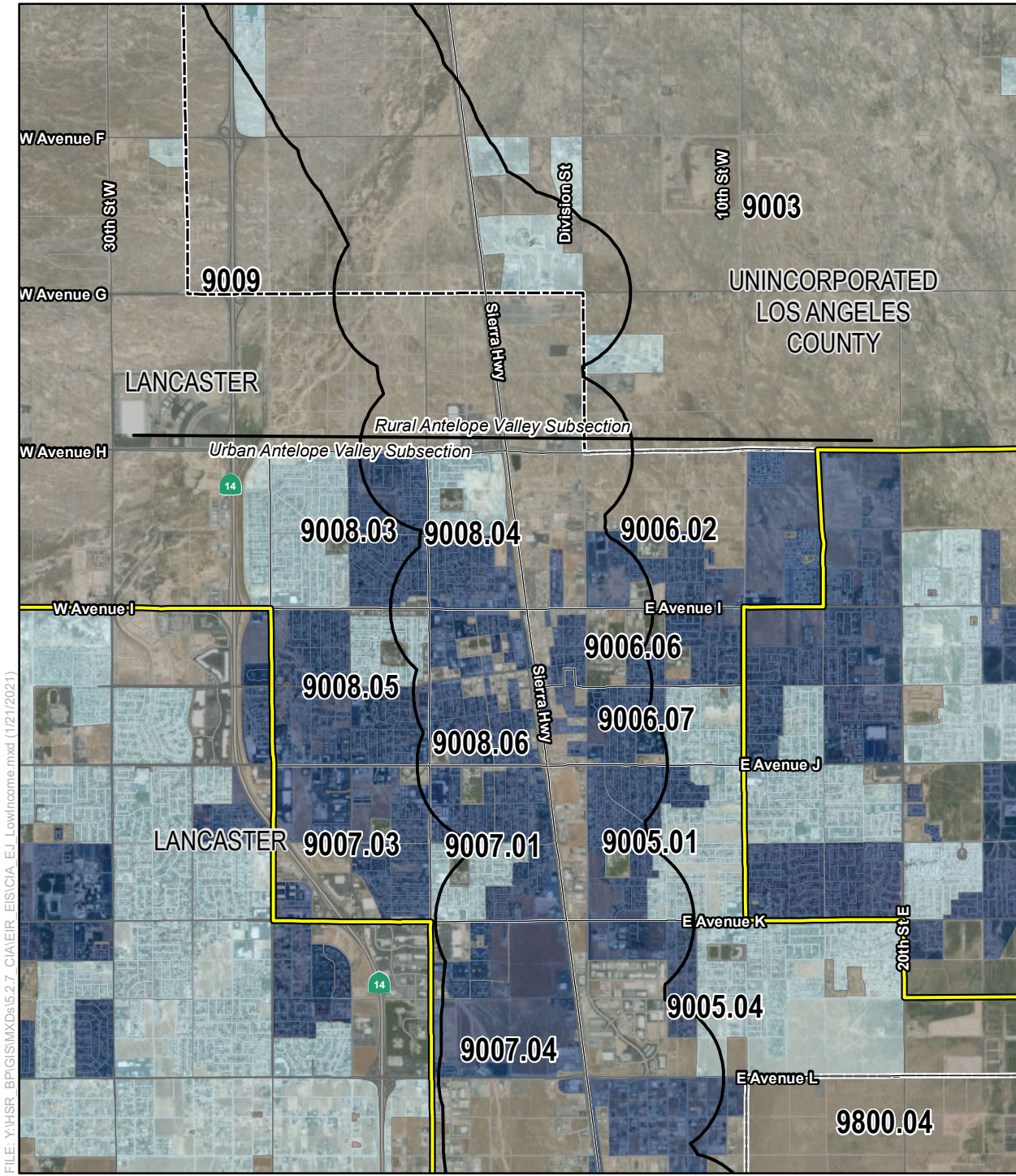


City/Census Designated Place

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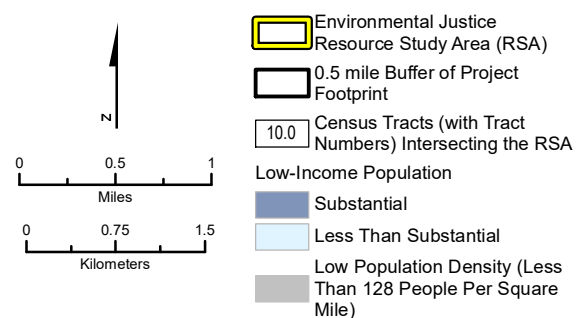
**Figure 5-A-3**  
 Low-Income Populations in the Environmental Justice Resource Study Area  
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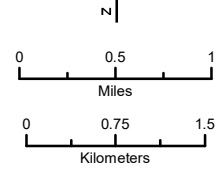
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City/Census Designated Place

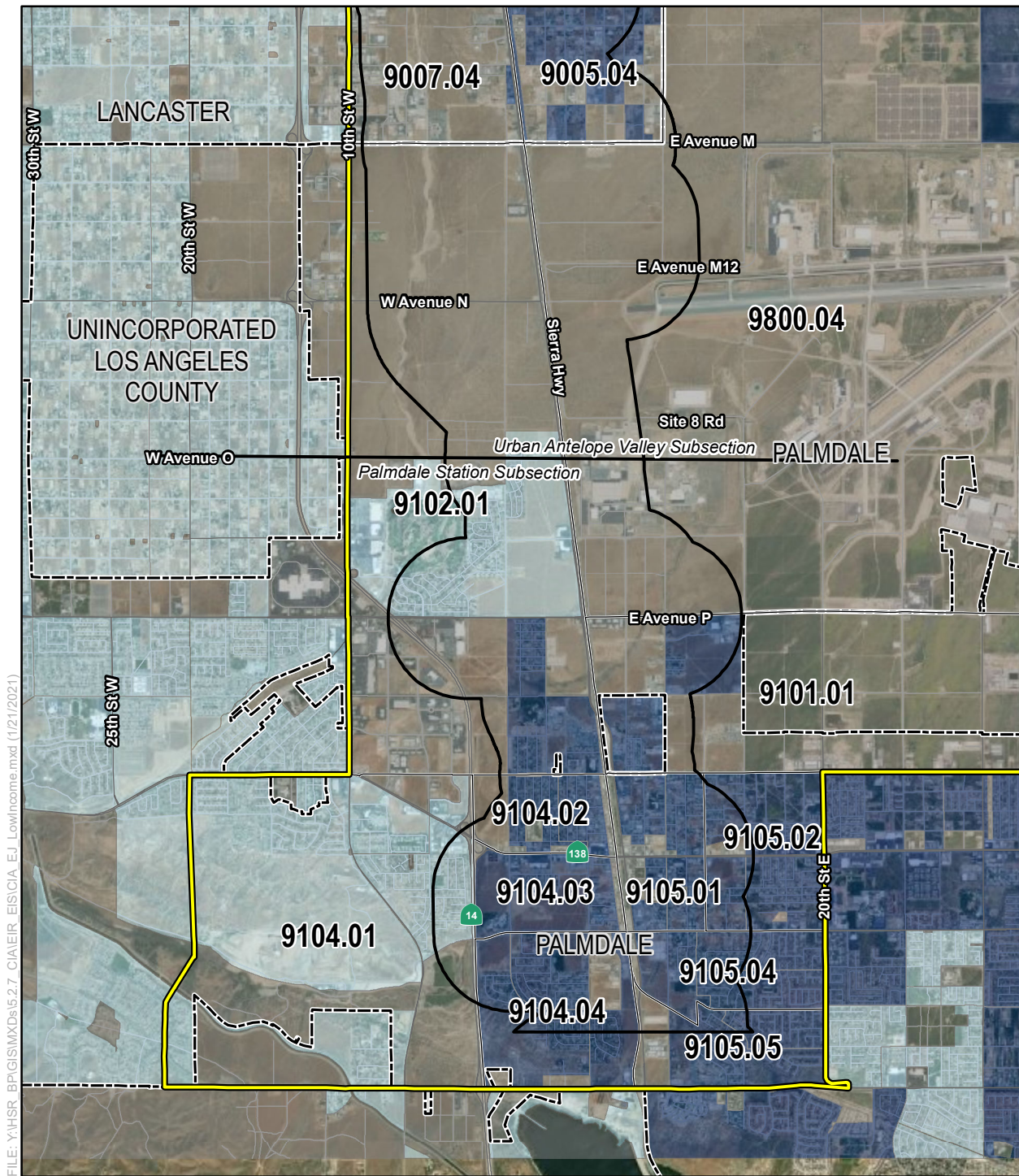
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**Figure 5-A-3**

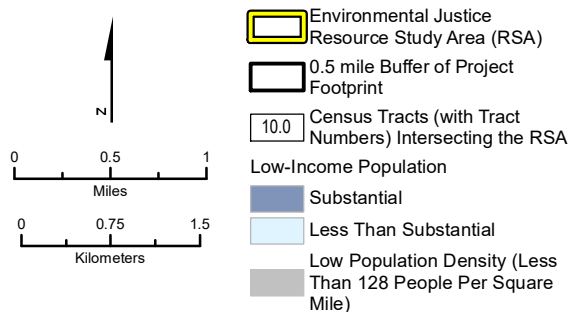
Low-Income Populations in the Environmental Justice Resource Study Area





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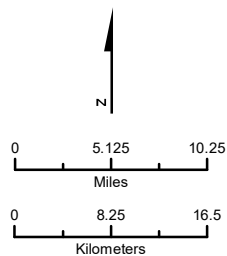
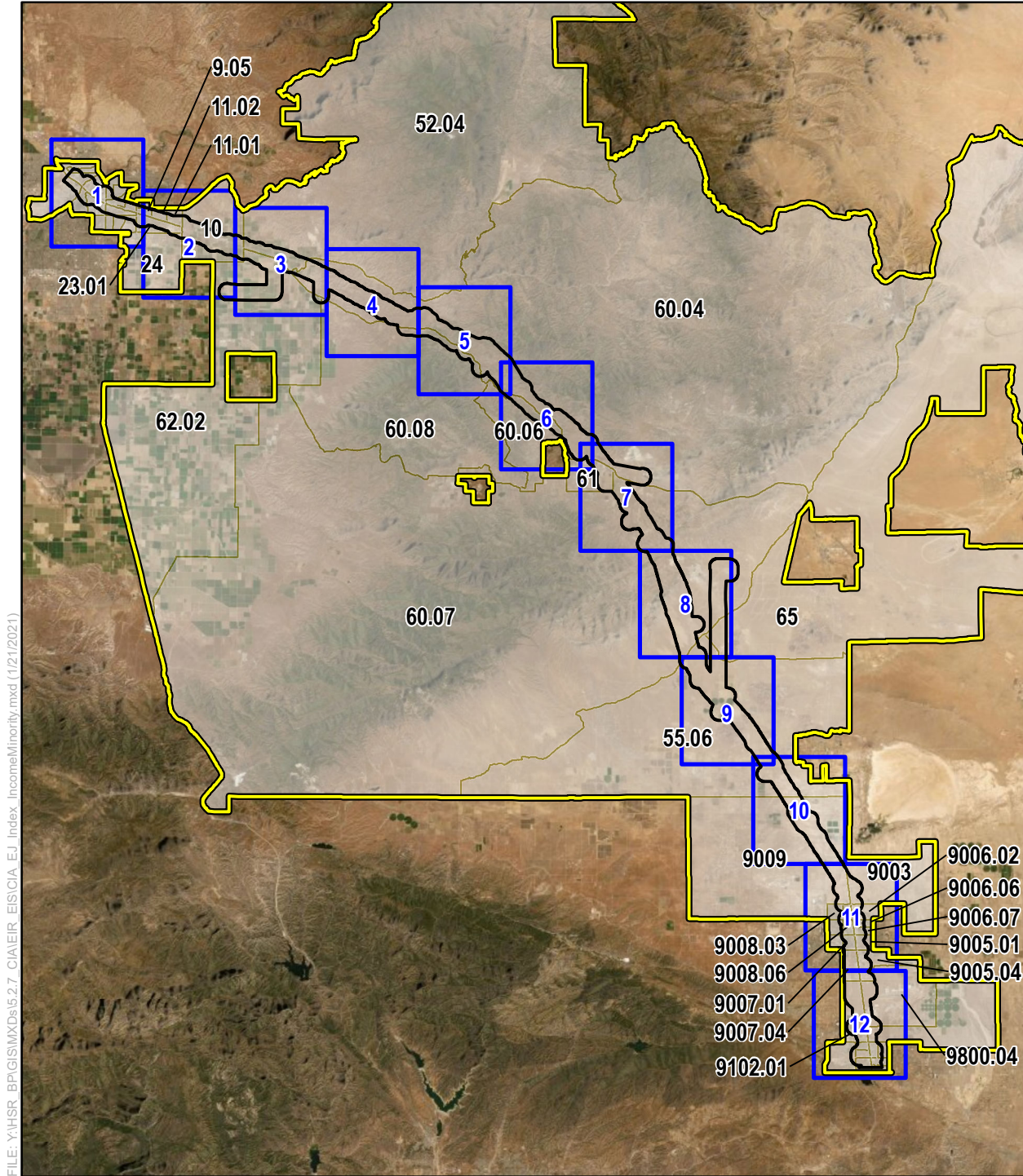


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**Figure 5-A-3**

Low-Income Populations in the Environmental Justice Resource Study Area  
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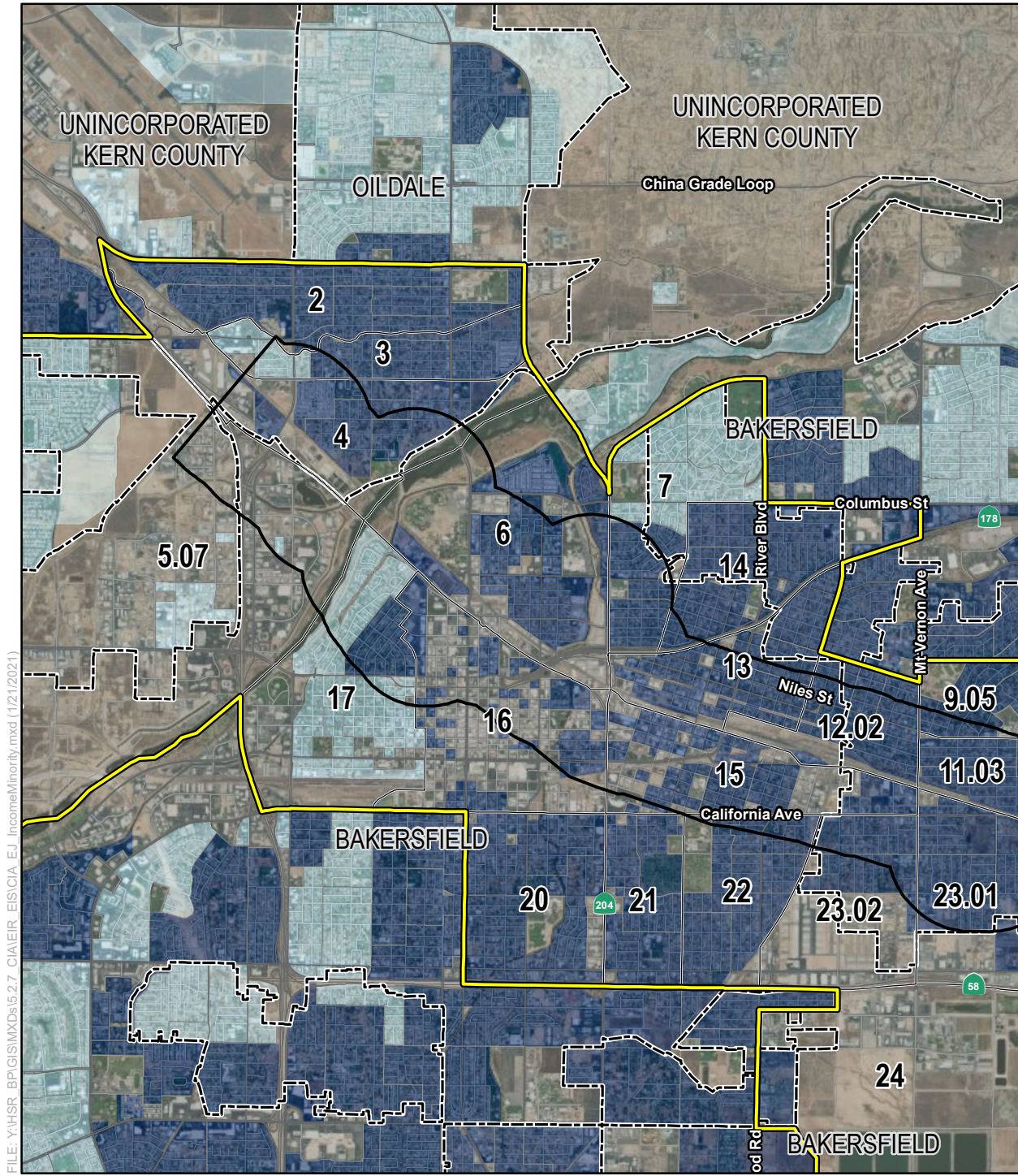


- Low-Income and/or Minority Population Page Index
- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts Intersecting the RSA

**Figure 5-A-4**

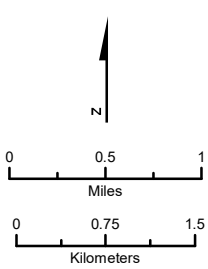
Low-Income and/or Minority Populations in the Environmental Justice Resource Study Area  
Map Index for Pages 1-12





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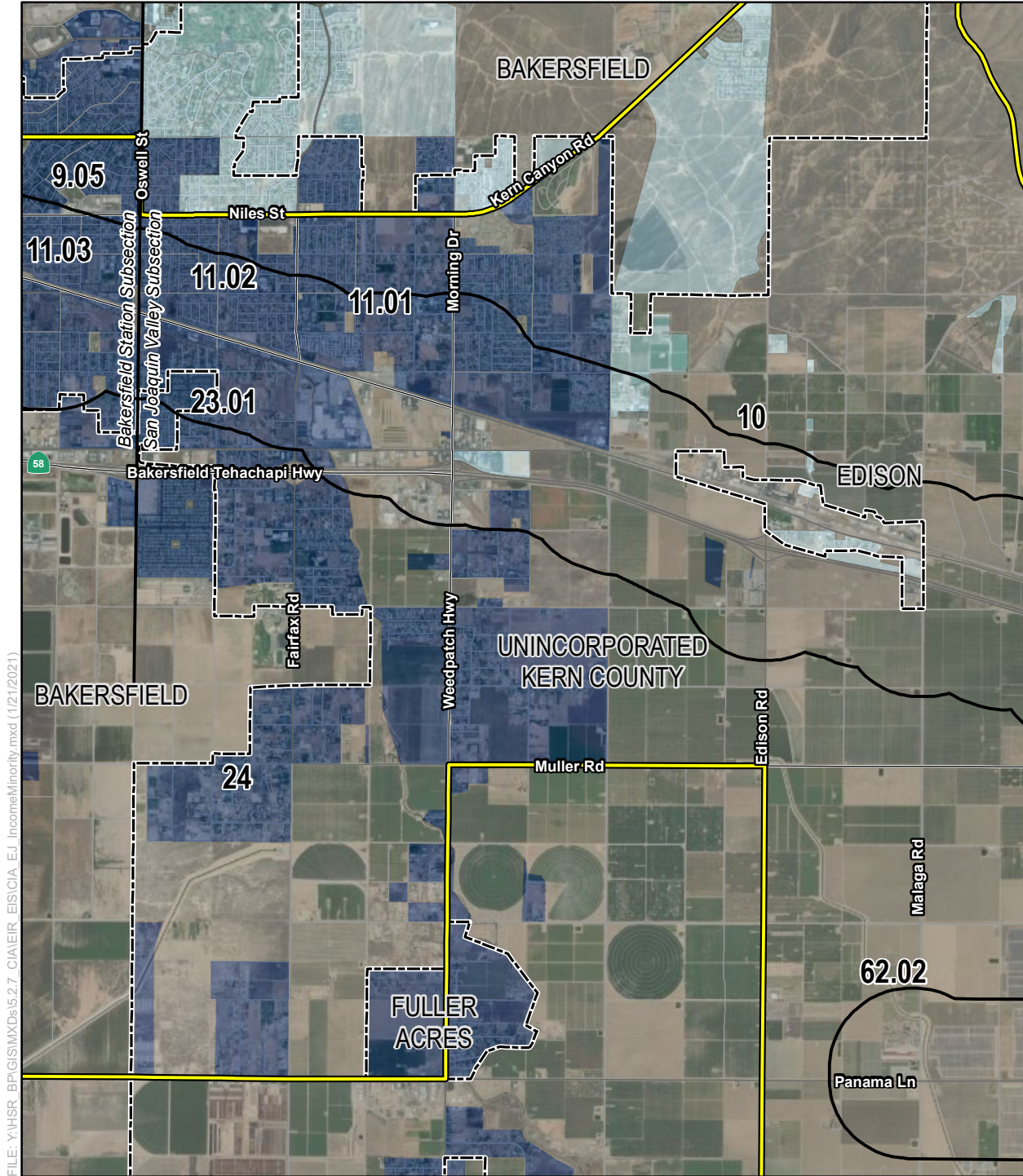


- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts (with Tract Numbers) Intersecting the RSA
- City/Census Designated Place
- Low-Income and/or Minority Populations
- Substantial
- Less Than Substantial
- Low Population Density

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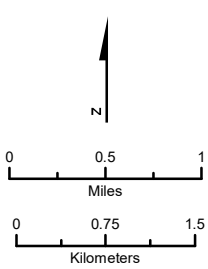
**Figure 5-A-4**  
Low-Income and/or Minority Populations in the Resource Study Area  
Page 1 of 12





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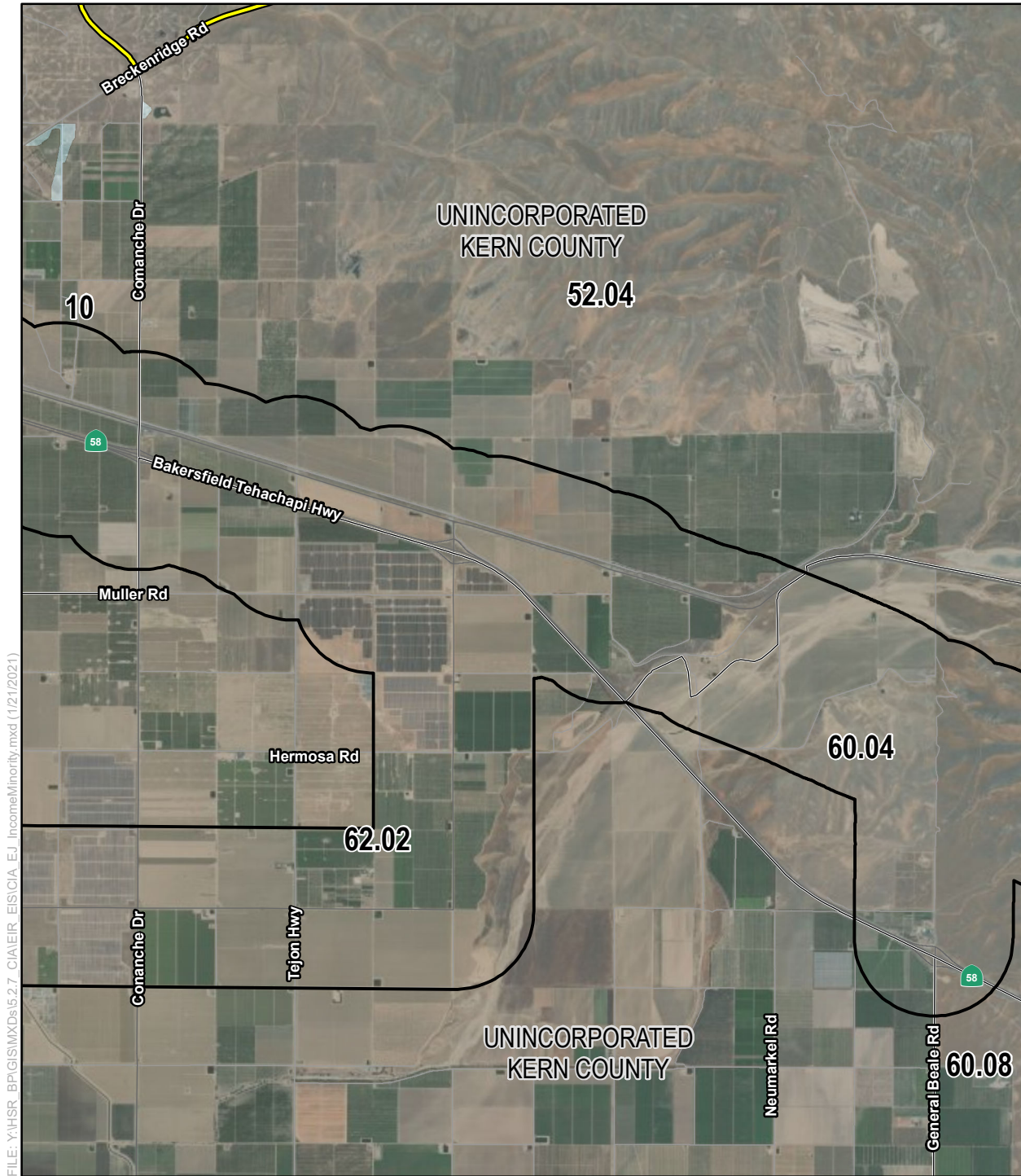


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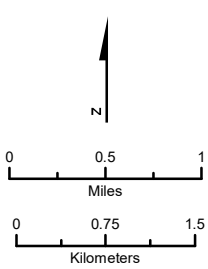
**Figure 5-A-4**  
Low-Income and/or Minority Populations in the Resource Study Area  
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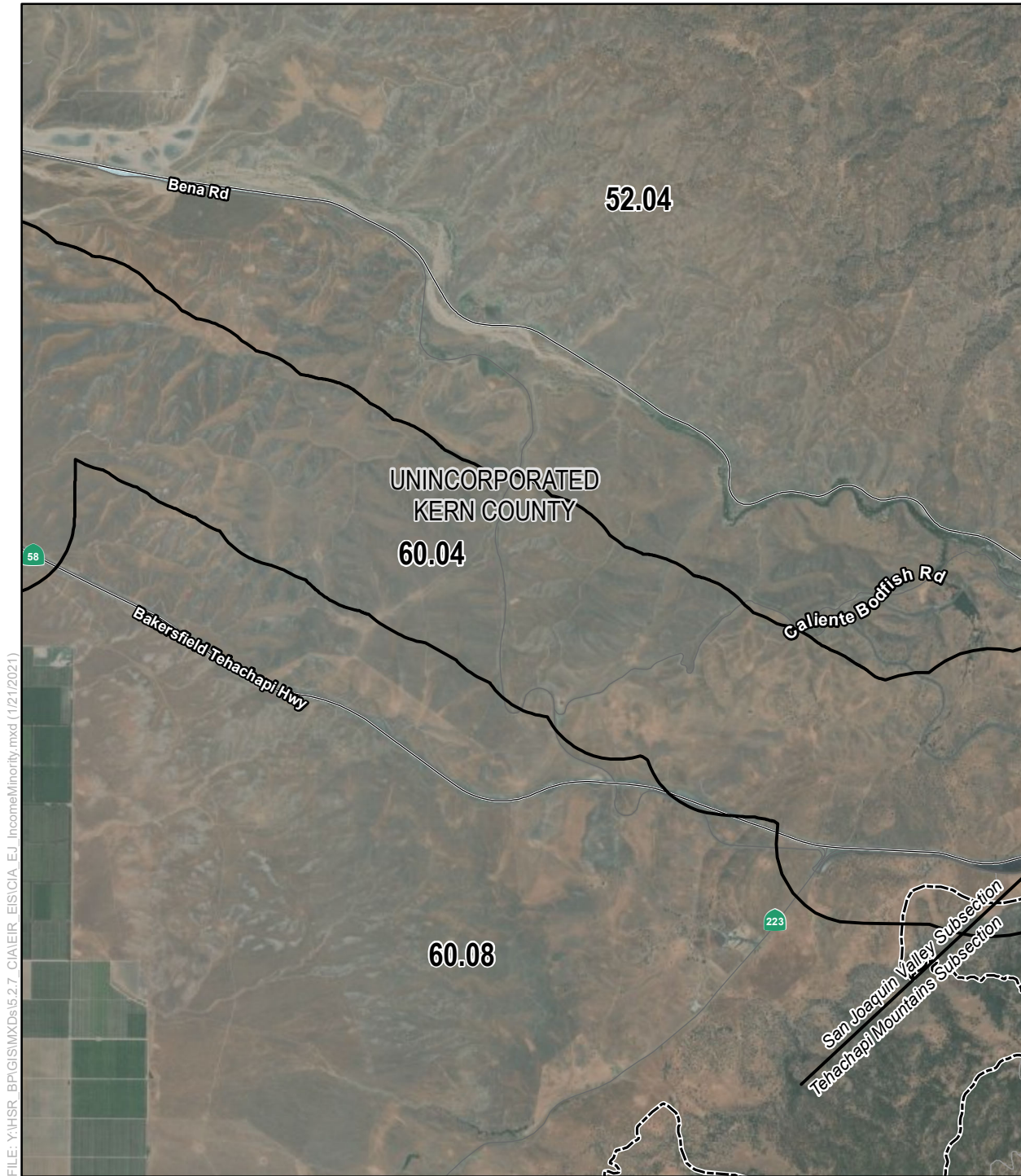
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- Environmental Justice Resource Study Area (RSA)
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- Census Tracts (with Tract Numbers) Intersecting the RSA
- 10.0 City/Census Designated Place
- Substantial Low-Income and/or Minority Populations
- Less Than Substantial
- Low Population Density

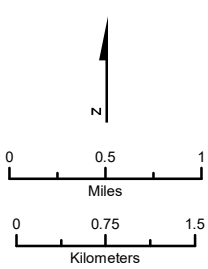
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**Figure 5-A-4**  
**Low-Income and/or Minority Populations in the Resource Study Area**  
 Page 3 of 12



FILE: Y:\HSR\_BP\GIS\MXDs\5.2.7\_CIA\EIR\_EIS\CIA\_EJ\_IncomeMinority.mxd (1/21/2021)

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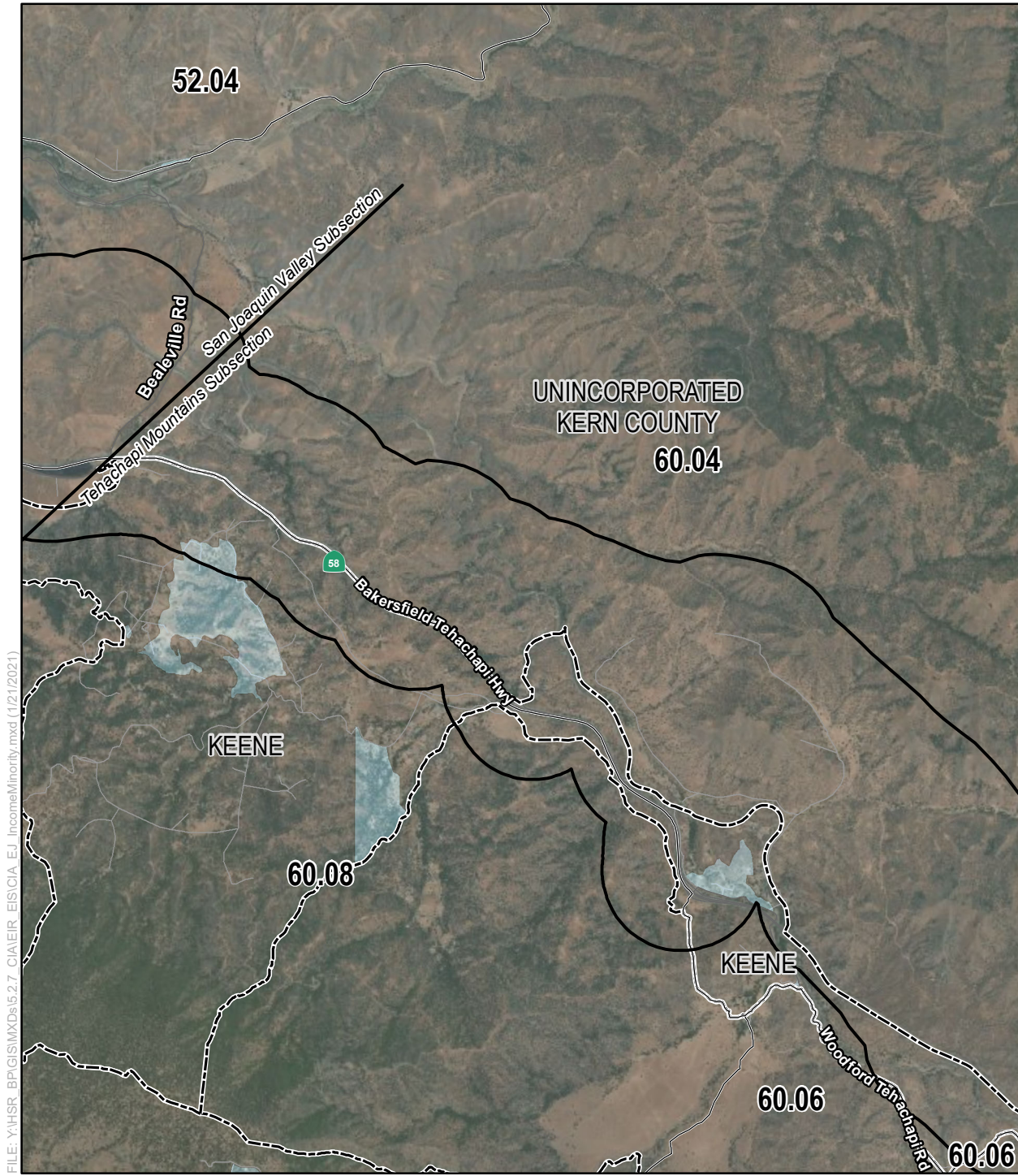


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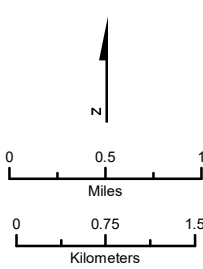
**Figure 5-A-4**  
 Low-Income and/or Minority Populations in the Resource Study Area  
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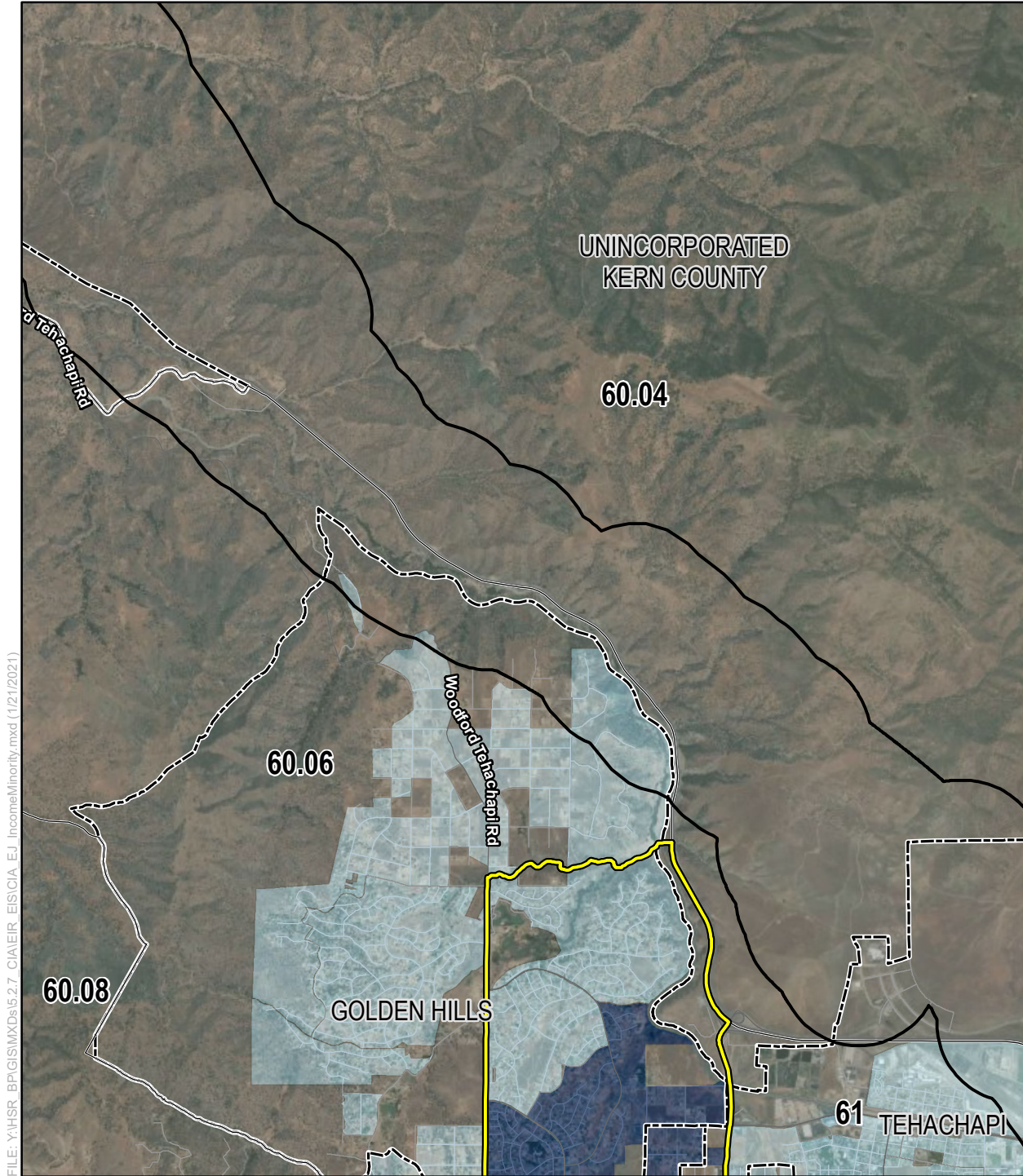


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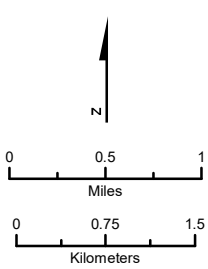
**Figure 5-A-4**  
Low-Income and/or Minority Populations in the Resource Study Area  
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FILE: Y:\HSR\_BP\GIS\MXDs\5.2.7\_CIA\EIR\_EIS\CIA\_EJ\_IncomeMinority.mxd (1/21/2021)

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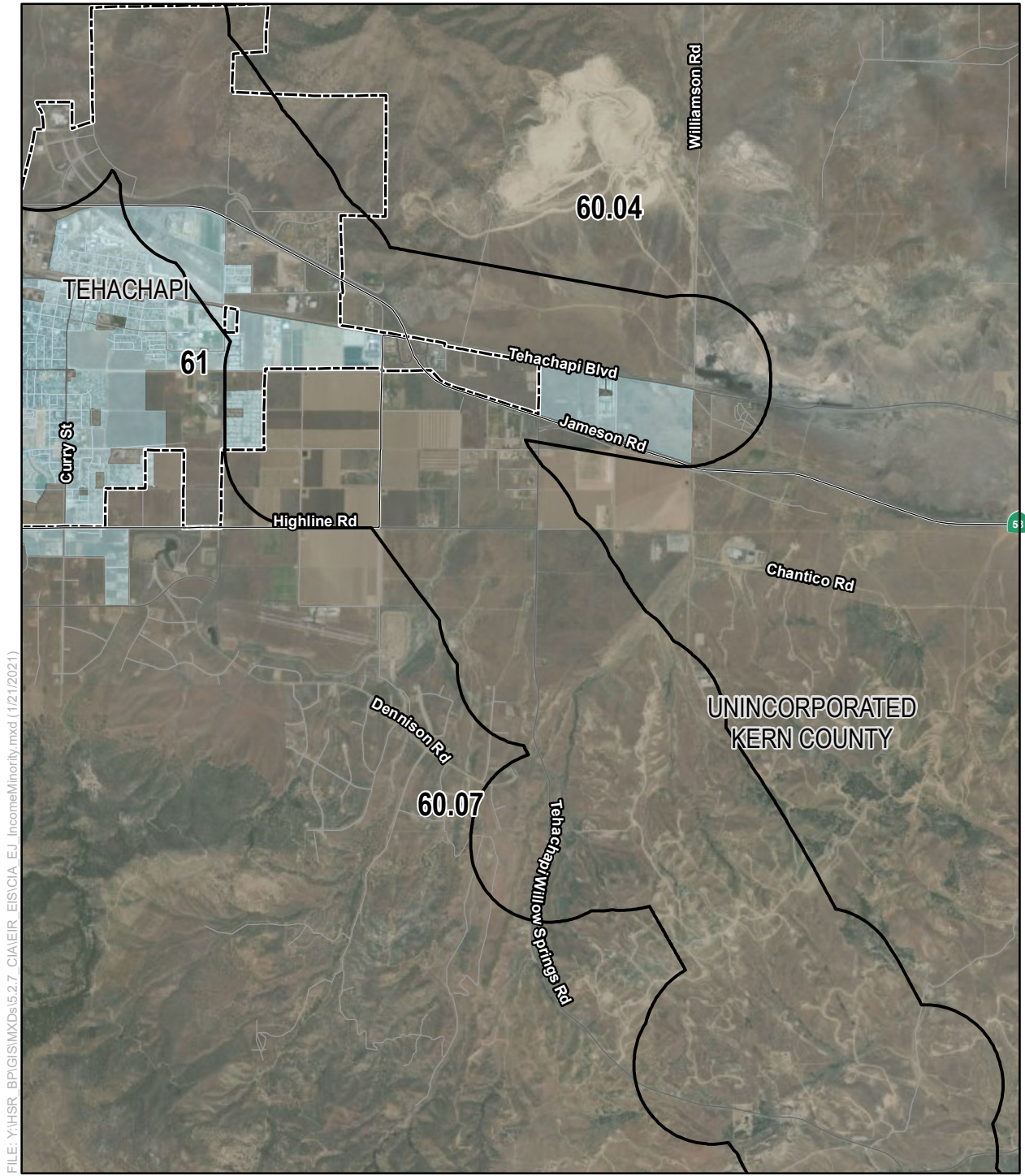


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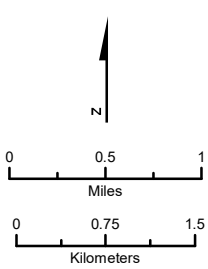
**Figure 5-A-4**  
Low-Income and/or Minority Populations in the Resource Study Area  
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FILE: Y:\HSR\_BP\GIS\IMXD\5.2.7\_CIAVEIR\_EIS\CIA\_EJ\_IncomeMinority.mxd (1/21/2021)

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- Low-Income and/or Minority Populations**
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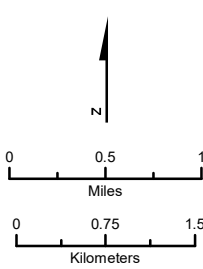
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**Figure 5-A-4**  
**Low-Income and/or Minority Populations in the Resource Study Area**  
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FILE: Y:\HSR\_BP\GIS\MXDs\5.2.7\_C\IA\EIR\_EIS\CIA\_EJ\_IncomeMinority.mxd (1/21/2021)

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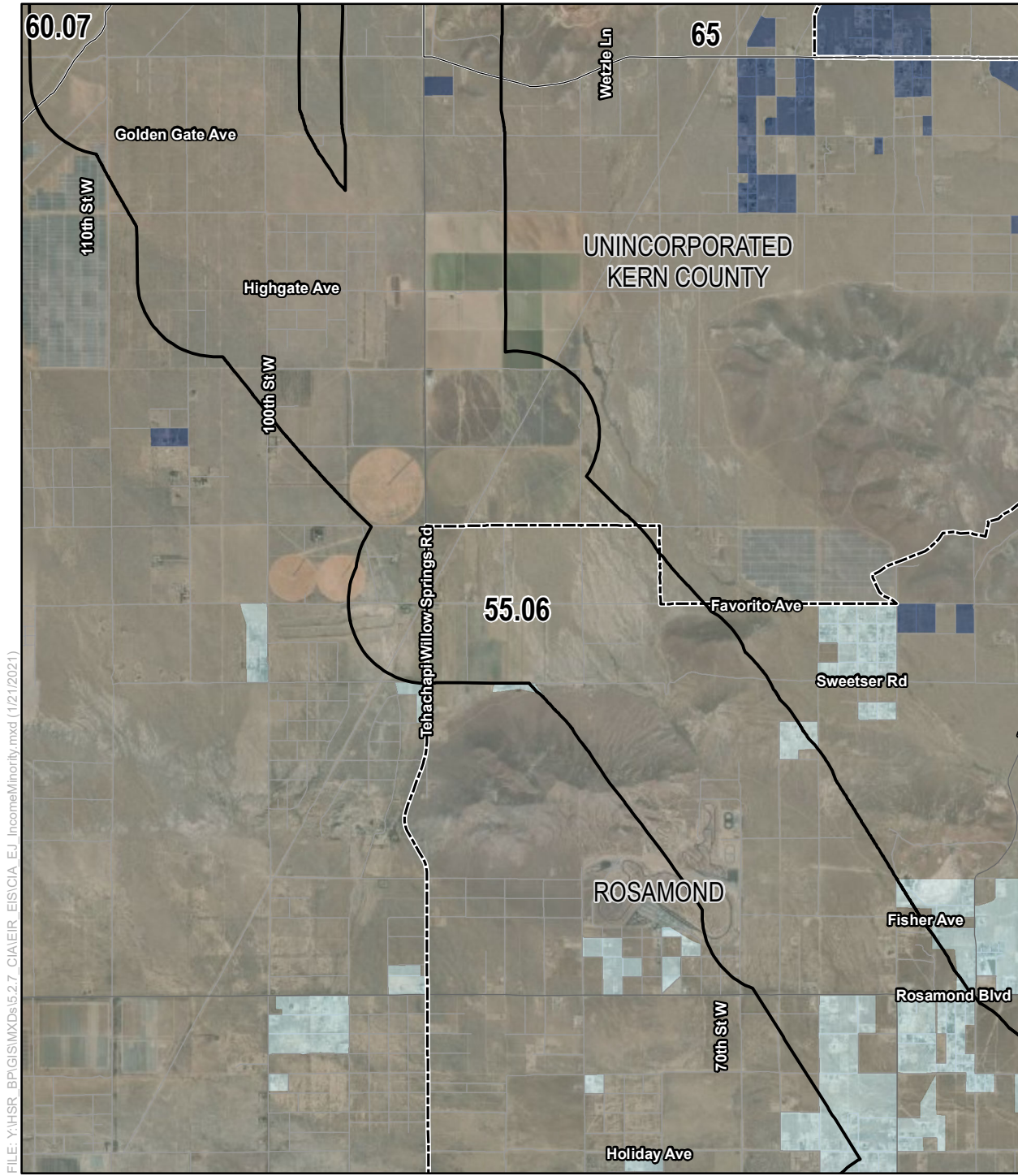


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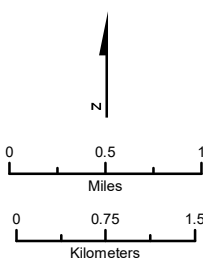
**Figure 5-A-4**  
**Low-Income and/or Minority Populations in the Resource Study Area**  
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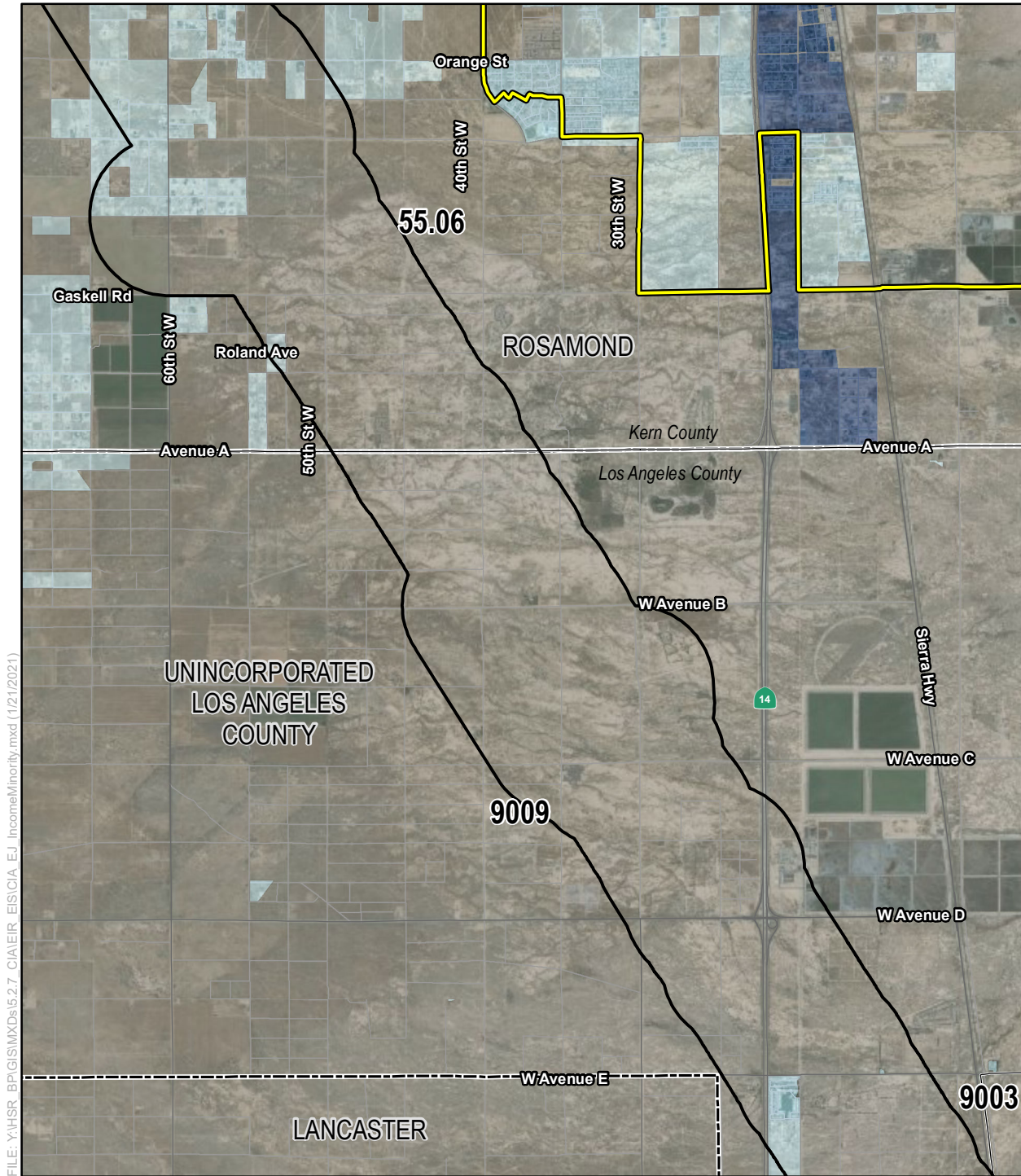
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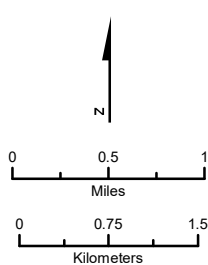
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**Figure 5-A-4**  
**Low-Income and/or Minority Populations in the Resource Study Area**  
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FILE: Y:\HSR\_BPG\GIS\MapDocs\5.2.7\_CIAVEIR\_EIS\CIA\_EJ\_IncomeMinority.mxd (1/21/2021)

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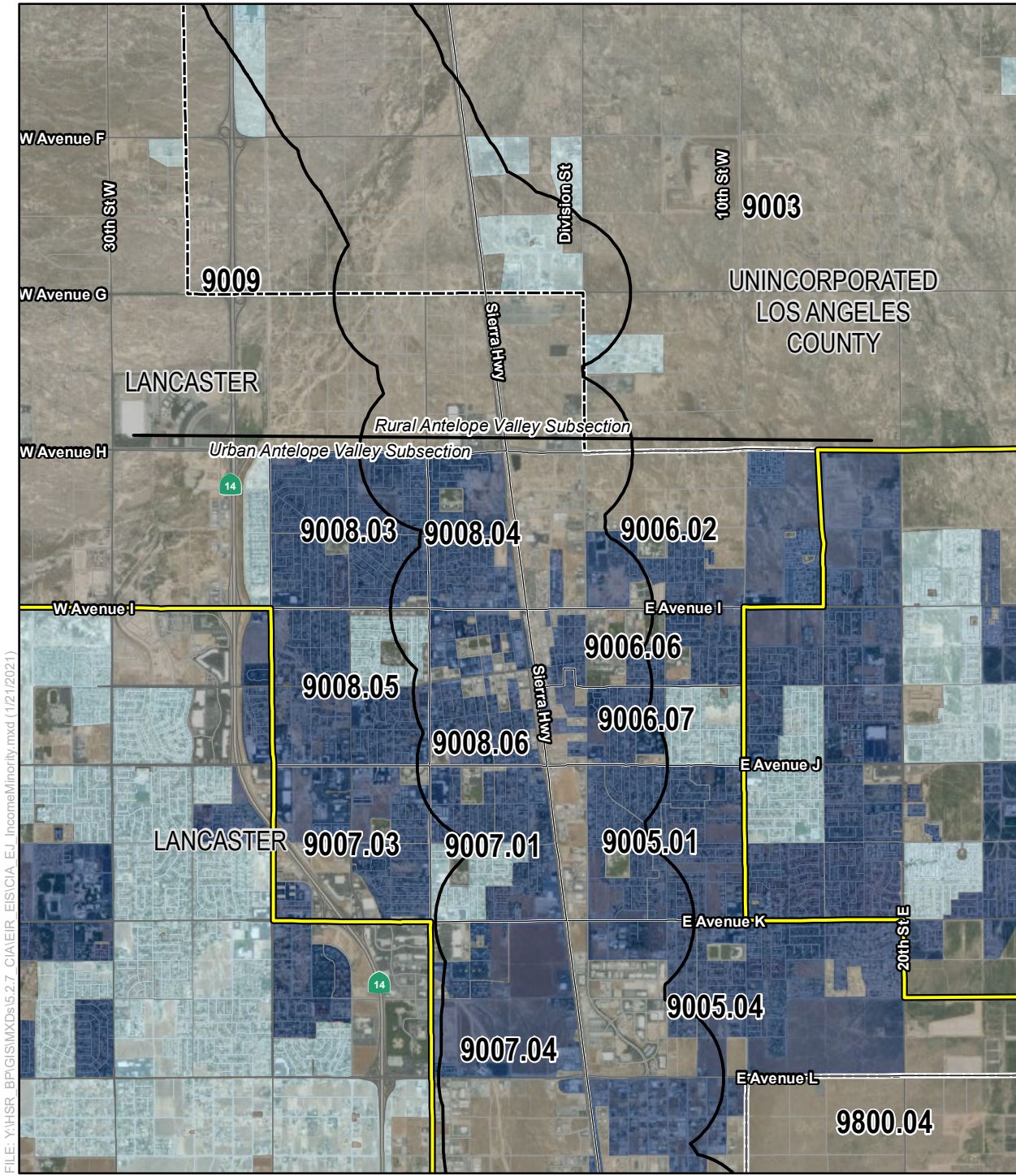


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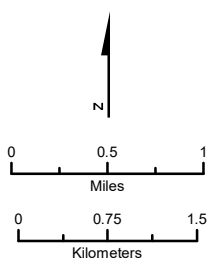
**Figure 5-A-4**  
**Low-Income and/or Minority Populations in the Resource Study Area**  
 Page 10 of 12





FILE: Y:\HSR\_BPG\GIS\MapDocs\5.2.7\_CIAVEIR\_EIS\CIA\_EJ\_IncomeMinority.mxd (1/21/2021)

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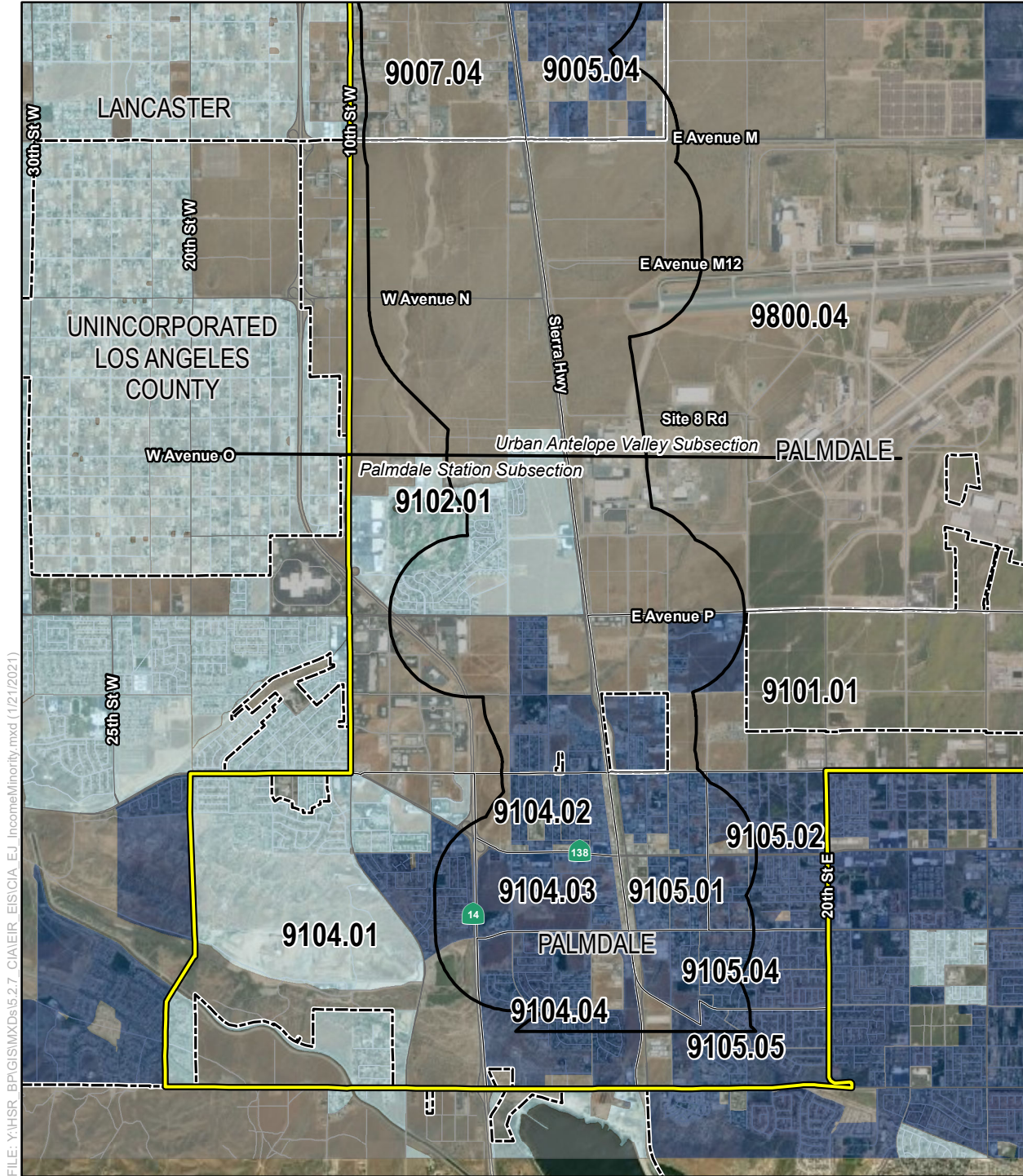


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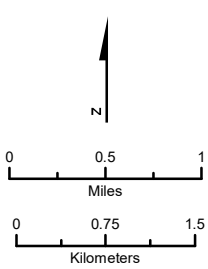
**Figure 5-A-4**  
 Low-Income and/or Minority Populations in the Resource Study Area  
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FILE: Y:\HSR\_BPG\GIS\MXDs\5.2.7\_CIA\EIR\_EIS\CIA\_EJ\_IncomeMinority.mxd (1/21/2021)

SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)

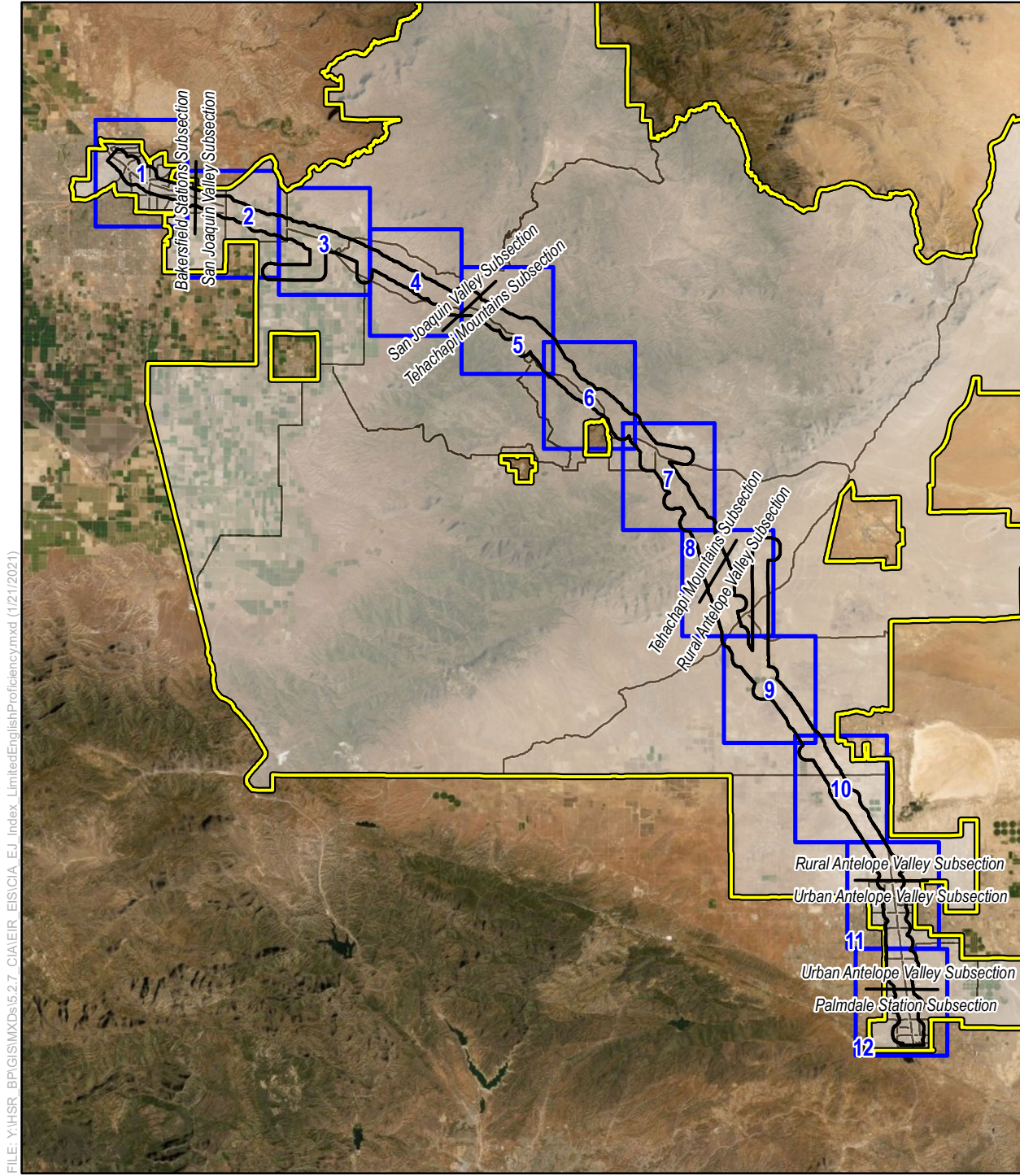


- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts (with Tract Numbers) Intersecting the RSA
- City/Census Designated Place
- Low-Income and/or Minority Populations
- Substantial
- Less Than Substantial
- Low Population Density

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)

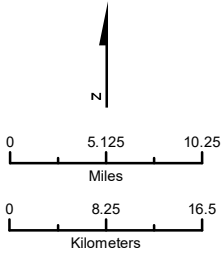
**Figure 5-A-4**  
Low-Income and/or Minority Populations in the Resource Study Area  
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FILE: Y:\HSR\_BPG\GIS\MXDs\5.2.7\_CIAVEIR\_EIS\CIA\_EJ\_Index\_LimitedEnglishProficiency.mxd (1/21/2021)

SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)

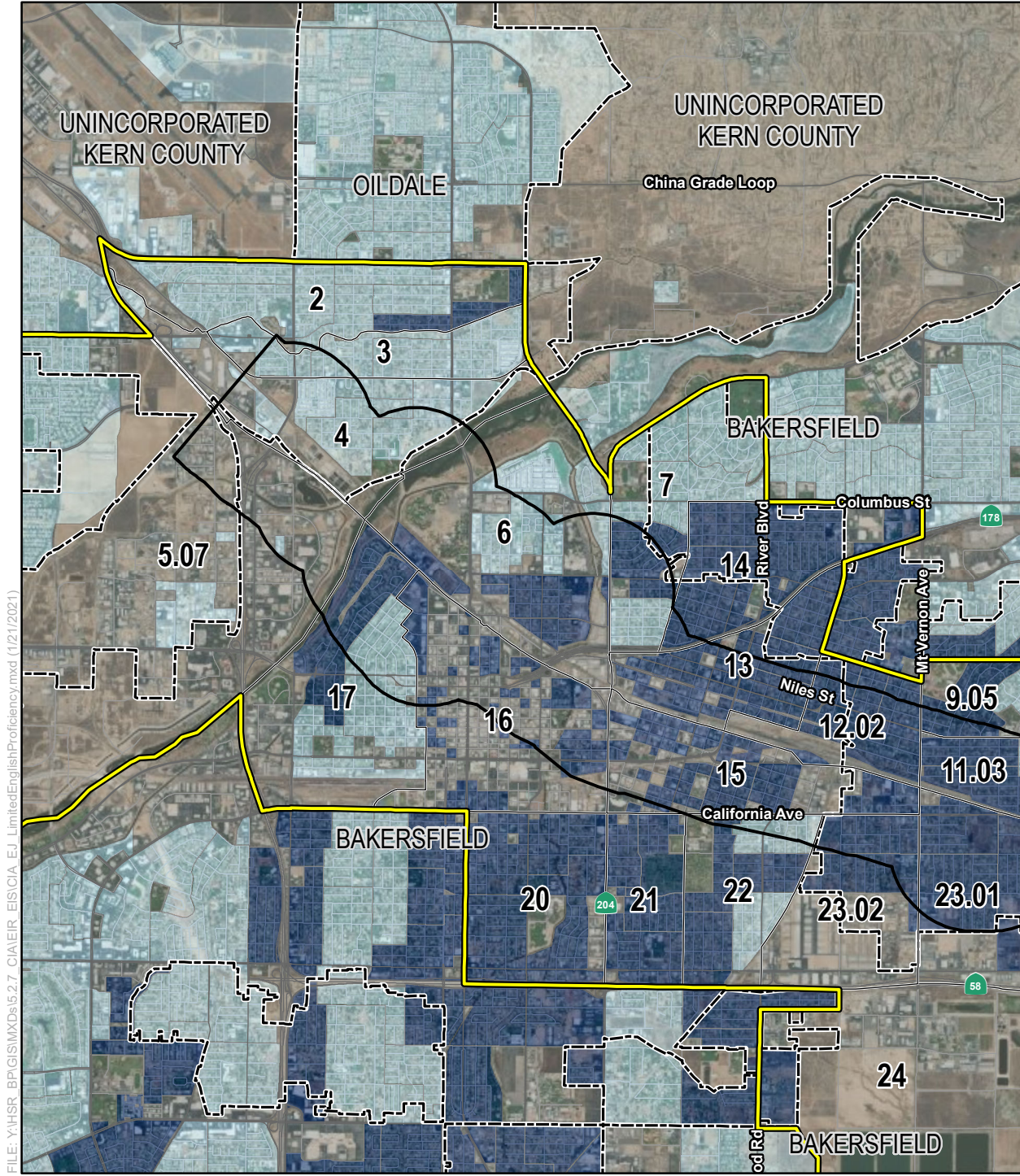


- Limited English Proficiency Population Page Index
- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts Intersecting the RSA

**Figure 5-A-5**

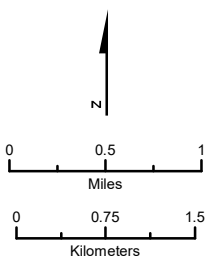
Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
Map Index for Pages 1-12





FILE: Y:\HSR\_BP\GIS\MXDs\5.2.7\_CIAVEIR\_EIS\CIA\_EJ\_LimitedEnglishProficiency.mxd (1/21/2021)

SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



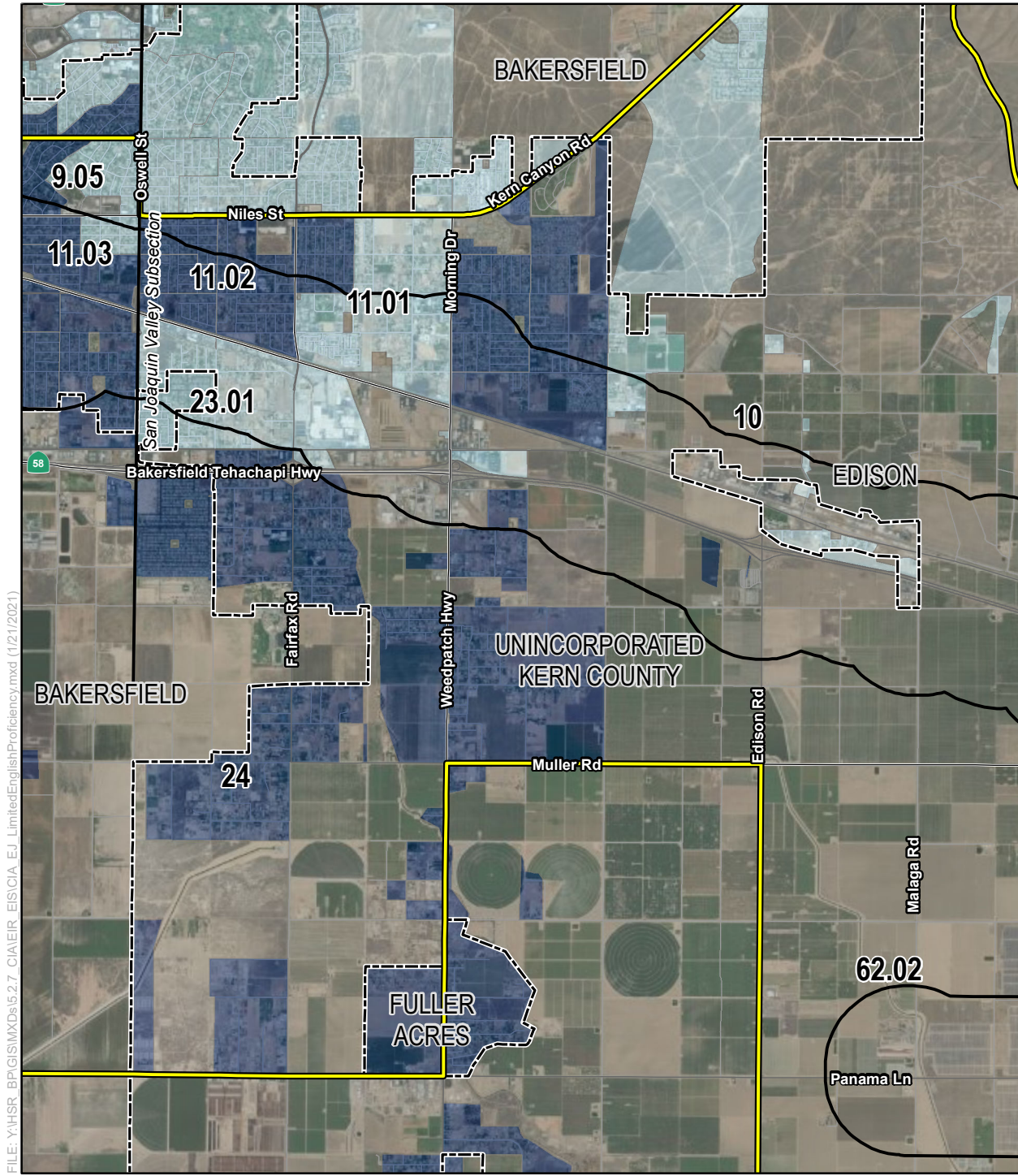
- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts (with Tract Numbers) Intersecting the RSA
- Limited English Proficiency Population**
- Substantial
- Less Than Substantial
- Low Population Density (Less Than 128 People Per Square Mile)

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)

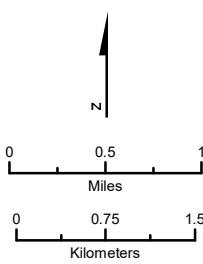
**Figure 5-A-5**  
Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
Page 1 of 12





FILE: Y:\HSR\_BPG\GIS\MXDs\5.2.7\_CIAVEIR\_EIS\CIA\_EJ\_LimitedEnglishProficiency.mxd (1/21/2021)

SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



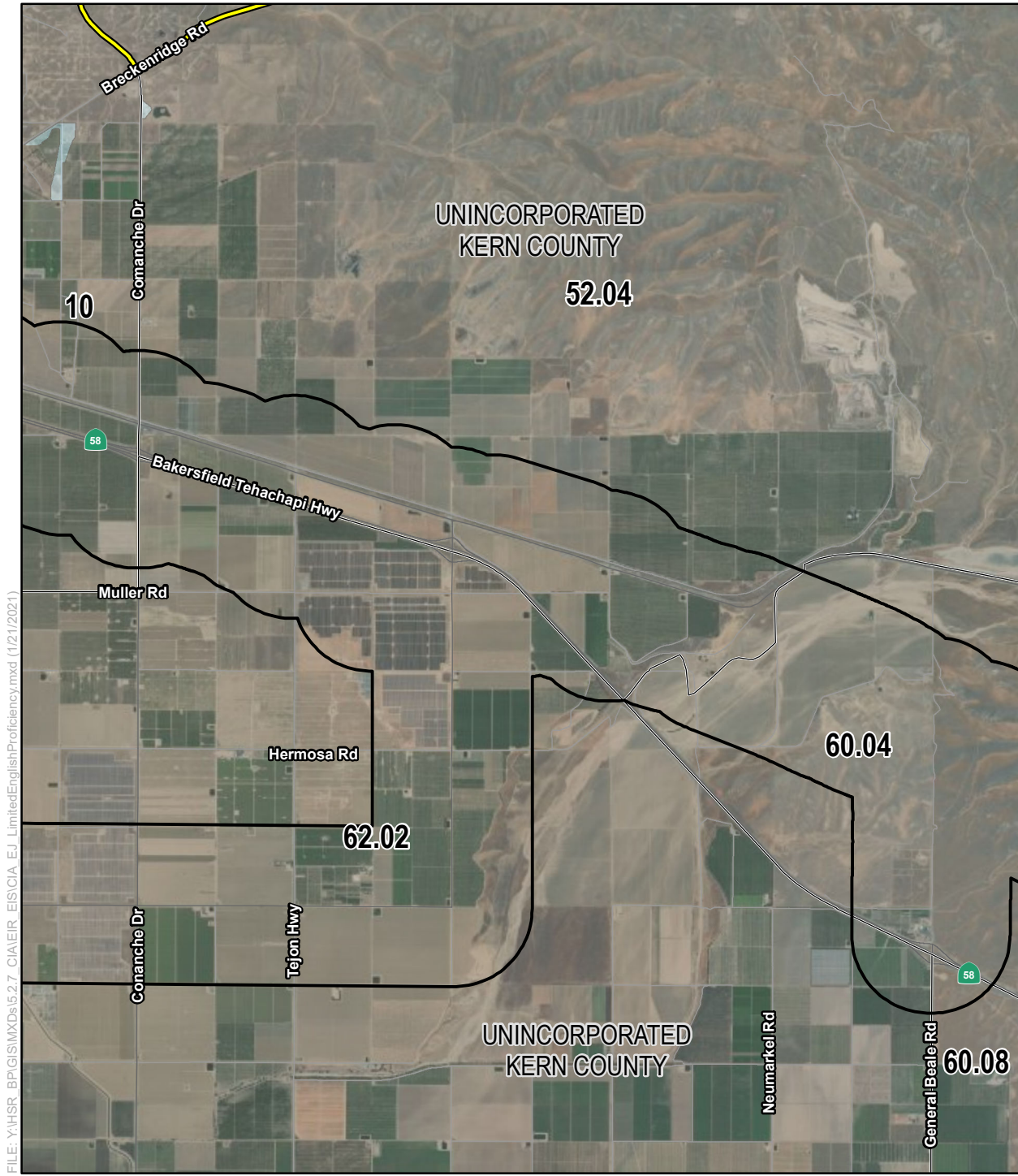
- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts (with Tract Numbers) Intersecting the RSA
- Limited English Proficiency Population
  - Substantial
  - Less Than Substantial
  - Low Population Density (Less Than 128 People Per Square Mile)

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)

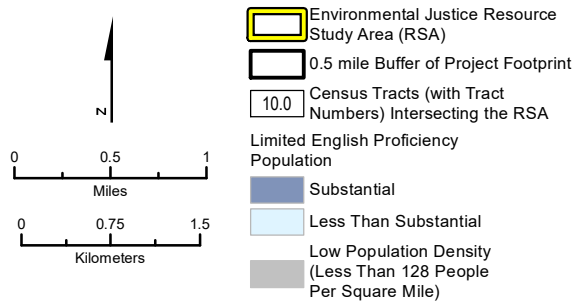
**Figure 5-A-5**  
 Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
 Page 2 of 12





FILE: Y:\HSR\_BP\GIS\IMXD\5.2.7\_CIA\EIR\_EIS\CIA\_EJ\_LimitedEnglishProficiency.mxd (1/21/2021)

SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



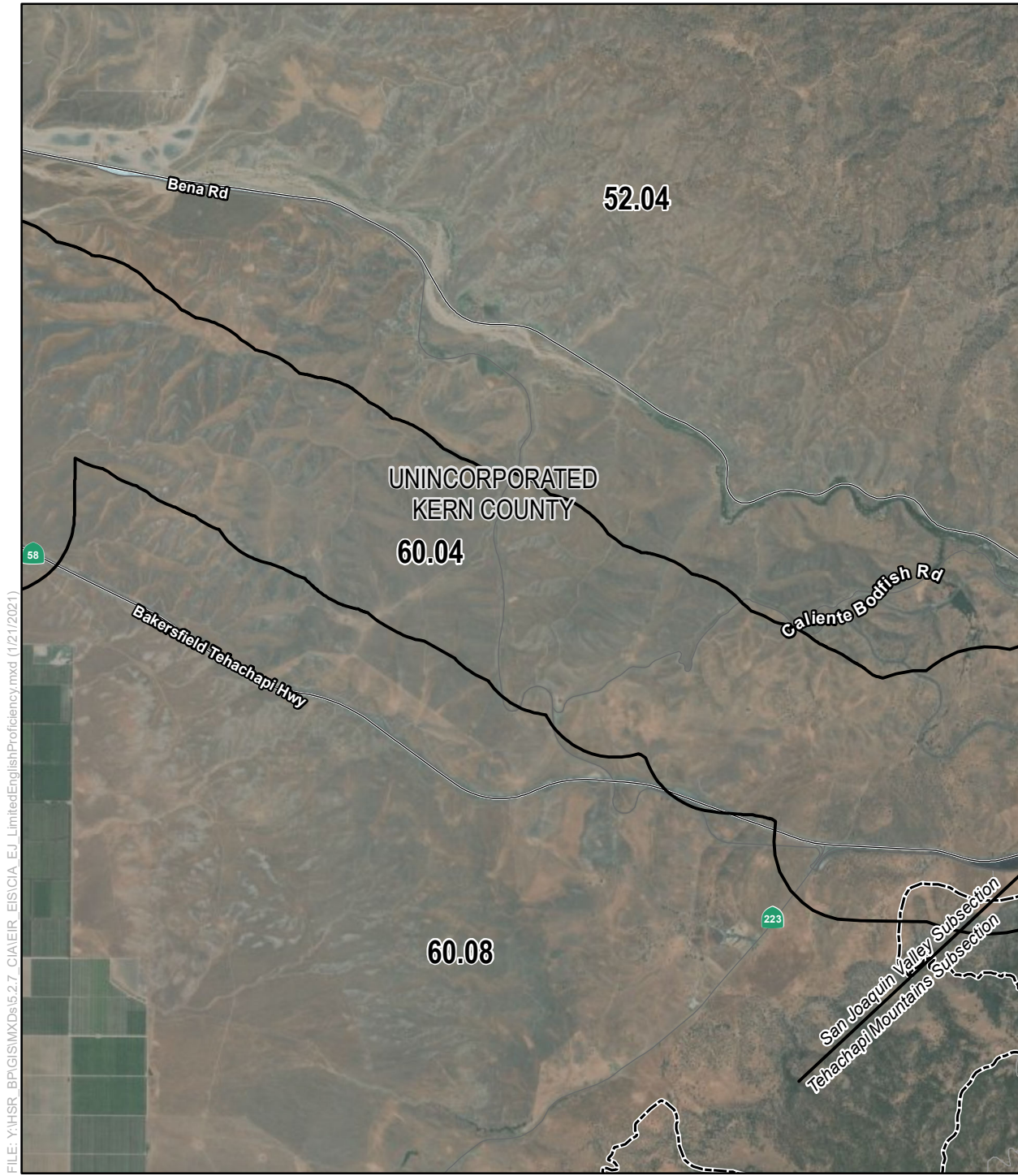
City/Census Designated Place

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**

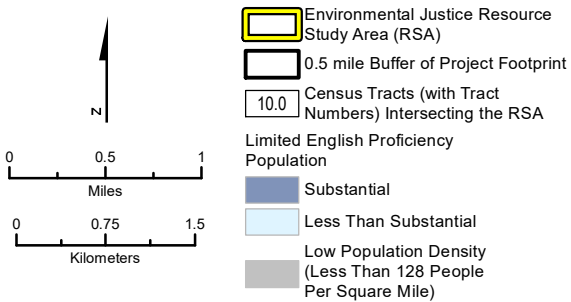
Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
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FILE: Y:\HSR\_BP\GIS\IMXD\5.2.7\_C\AVEIR\_EIS\CIA\_EJ\_LimitedEnglishProficiency.mxd (1/21/2021)

SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)

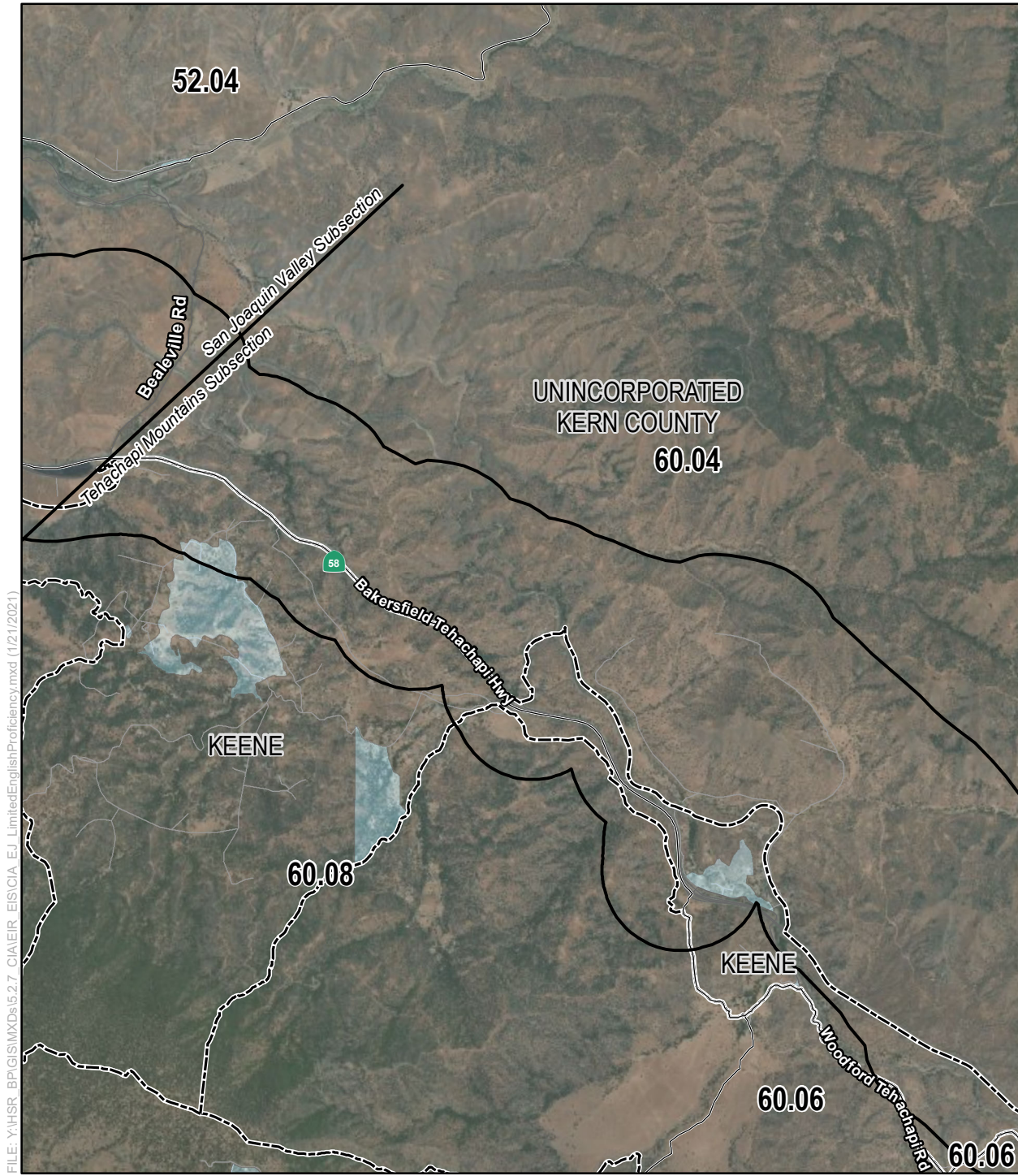


City/Census Designated Place

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)

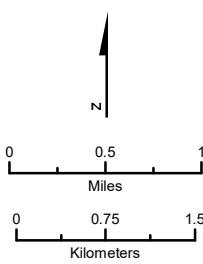
**Figure 5-A-5**  
Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
Page 4 of 12





FILE: Y:\HSR\_BP\GIS\IMXD\5.2.7\_CIAVEIR\_EIS\ICIA\_EJ\_LimitedEnglishProficiency.mxd (1/21/2021)

SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



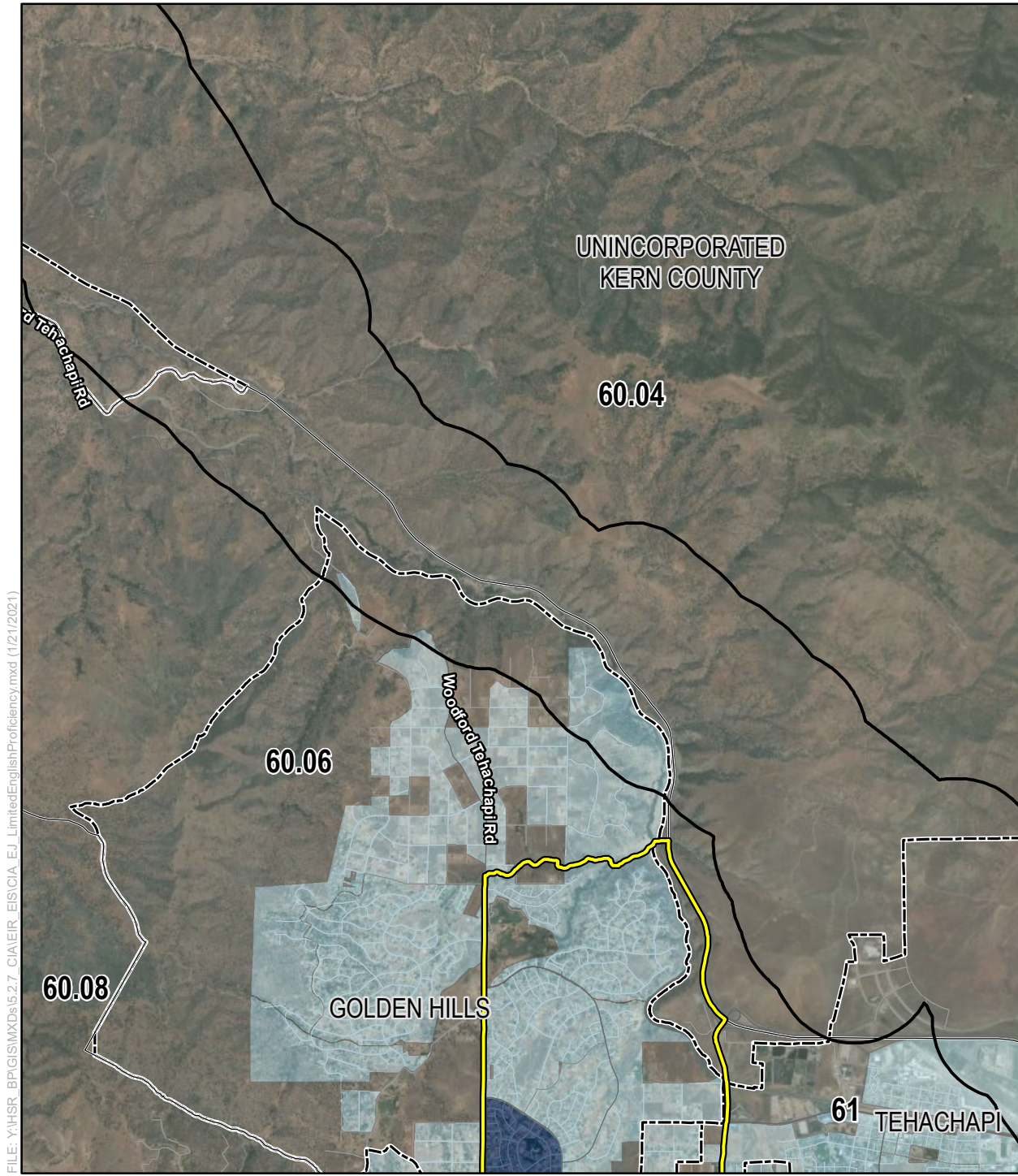
- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts (with Tract Numbers) Intersecting the RSA
- 10.0** Limited English Proficiency Population
- Substantial
- Less Than Substantial
- Low Population Density (Less Than 128 People Per Square Mile)

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)

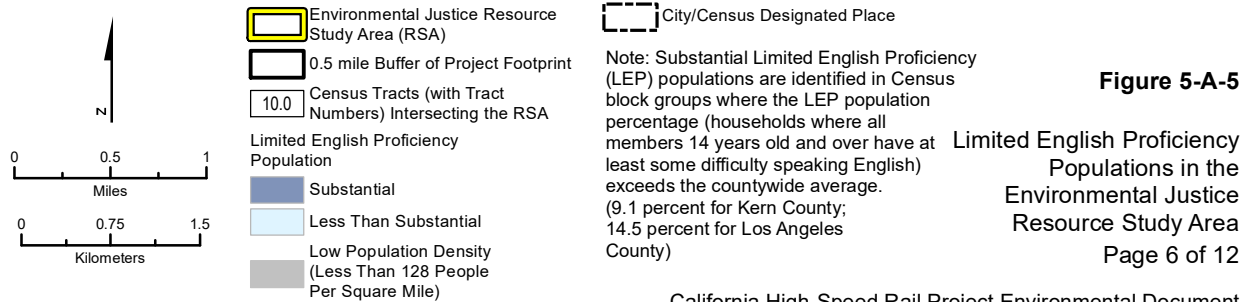
**Figure 5-A-5**  
Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
Page 5 of 12





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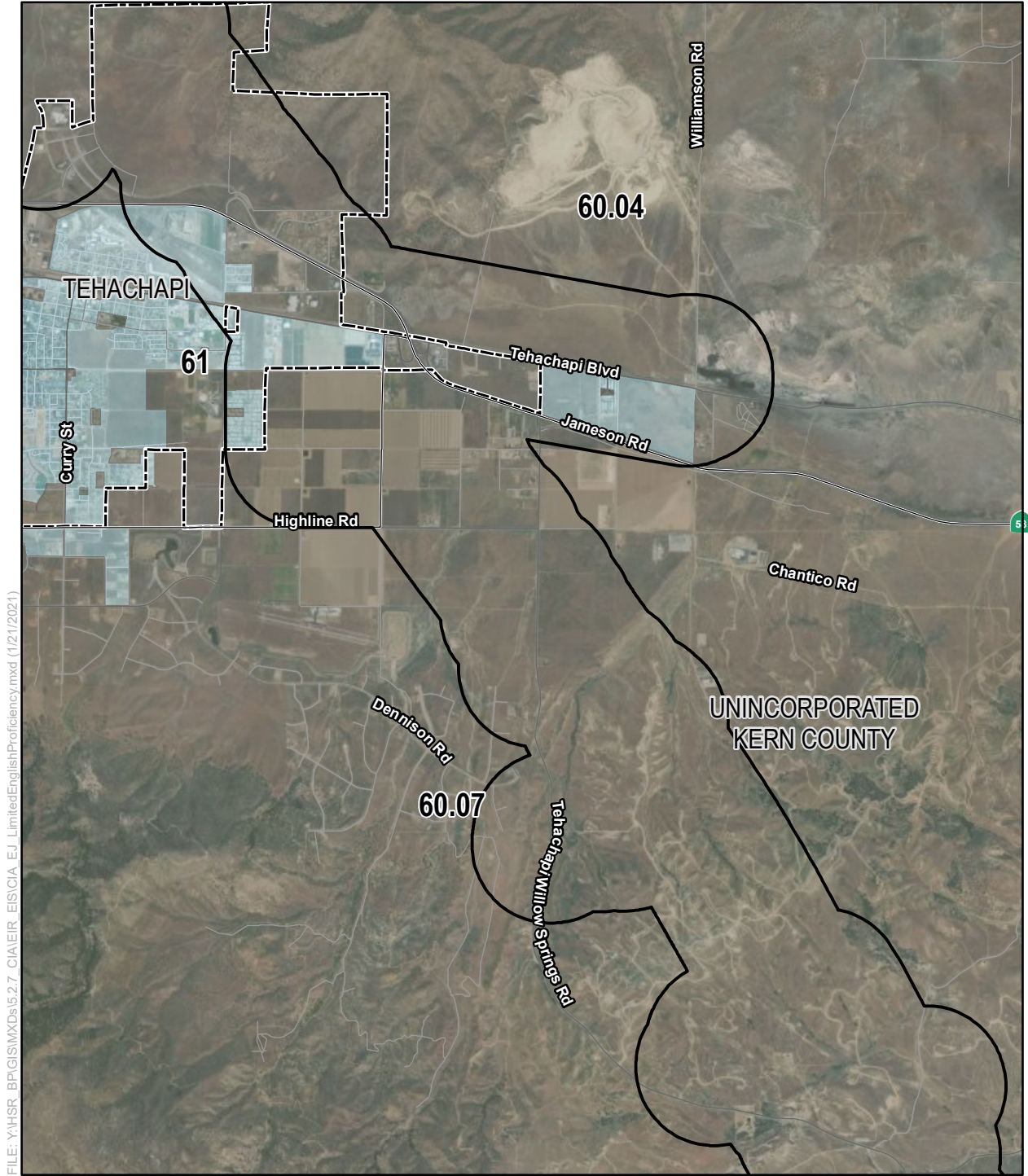
SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



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)

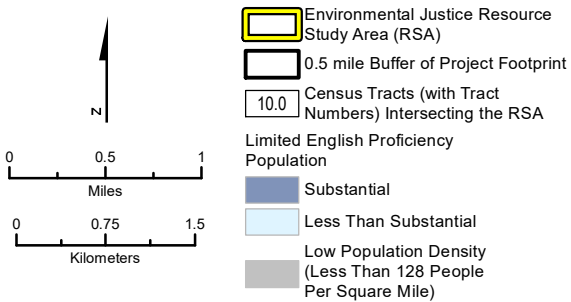
**Figure 5-A-5**  
Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
Page 6 of 12





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SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



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)

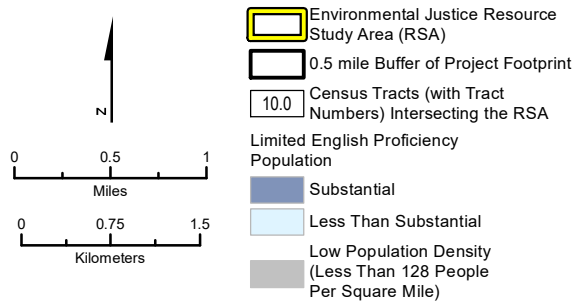
**Figure 5-A-5**  
Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
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SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)

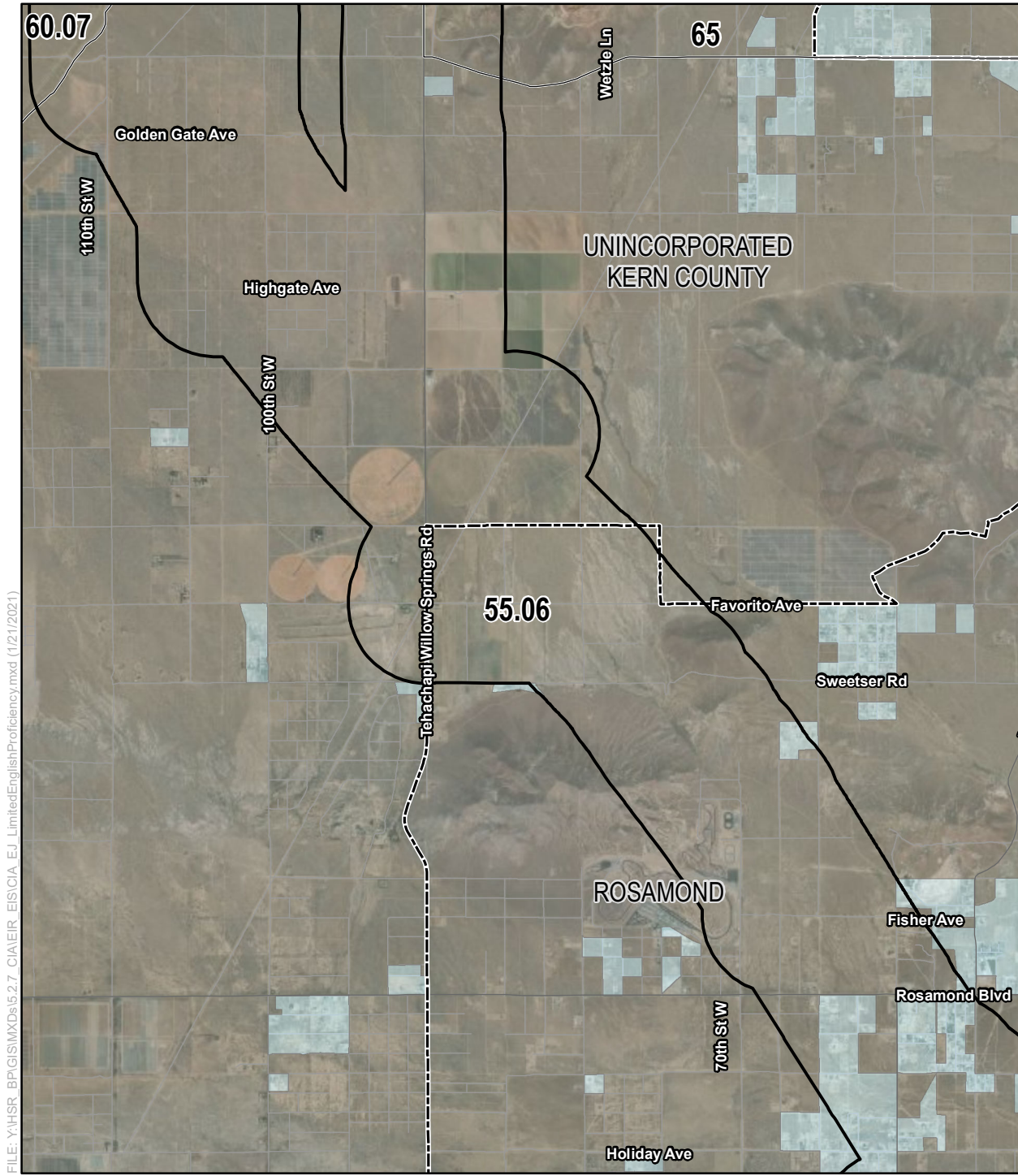


City/Census Designated Place

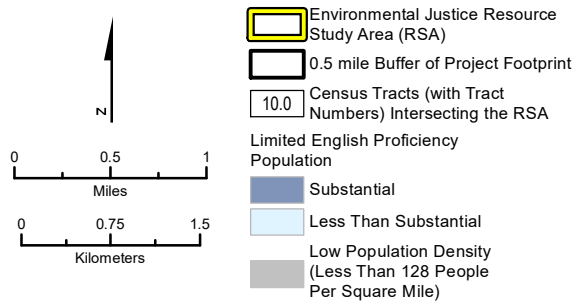
Note: Substantial Limited English Proficiency (LEP) populations are identified in Census block groups where the LEP population percentage (households where all members 14 years old and over have at least some difficulty speaking English) exceeds the countywide average. (9.1 percent for Kern County; 14.5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

**Figure 5-A-5**  
Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
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SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)

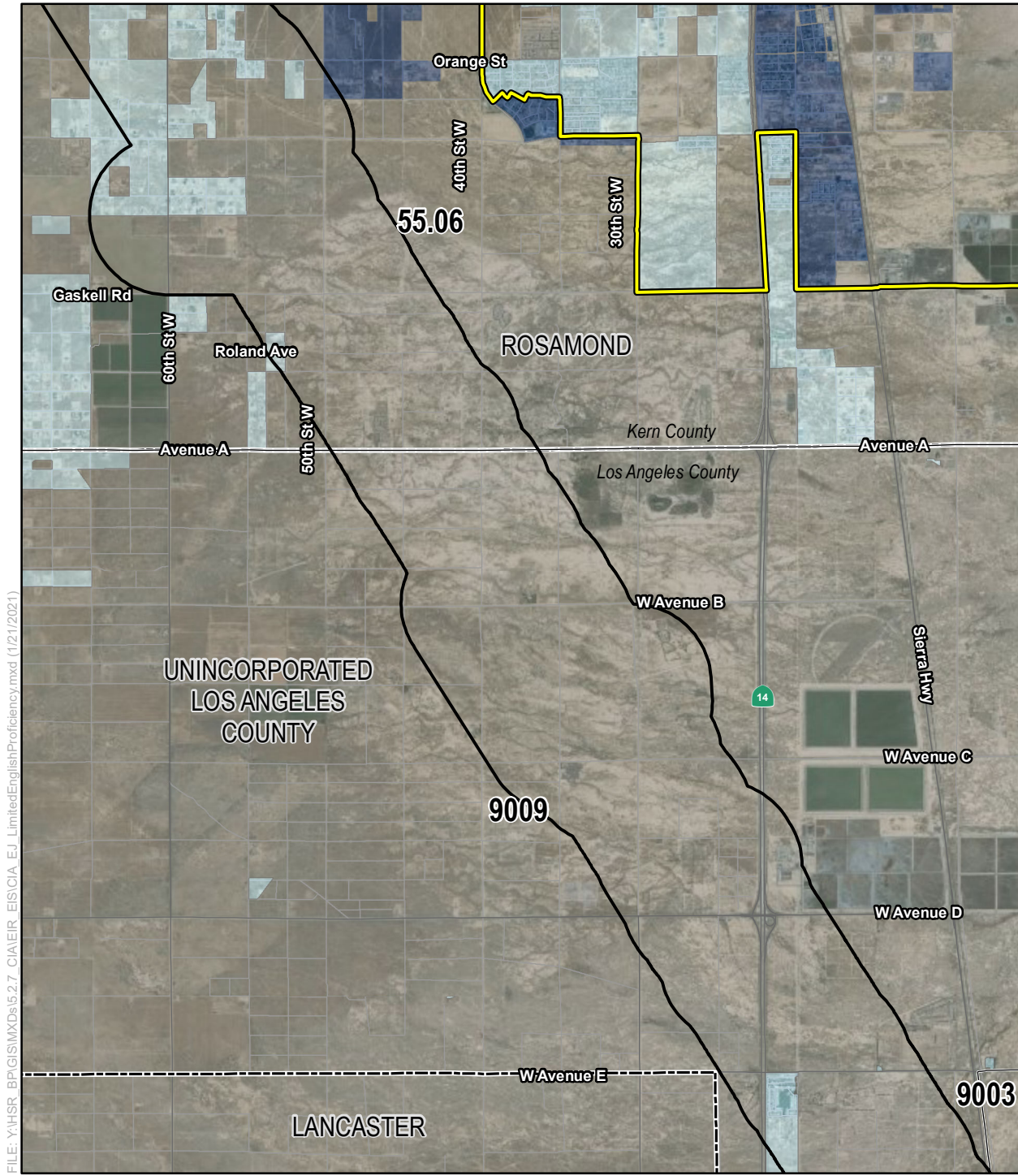


City/Census Designated Place

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)

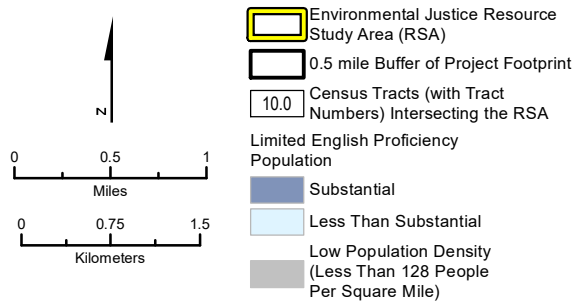
**Figure 5-A-5**  
Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
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SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)

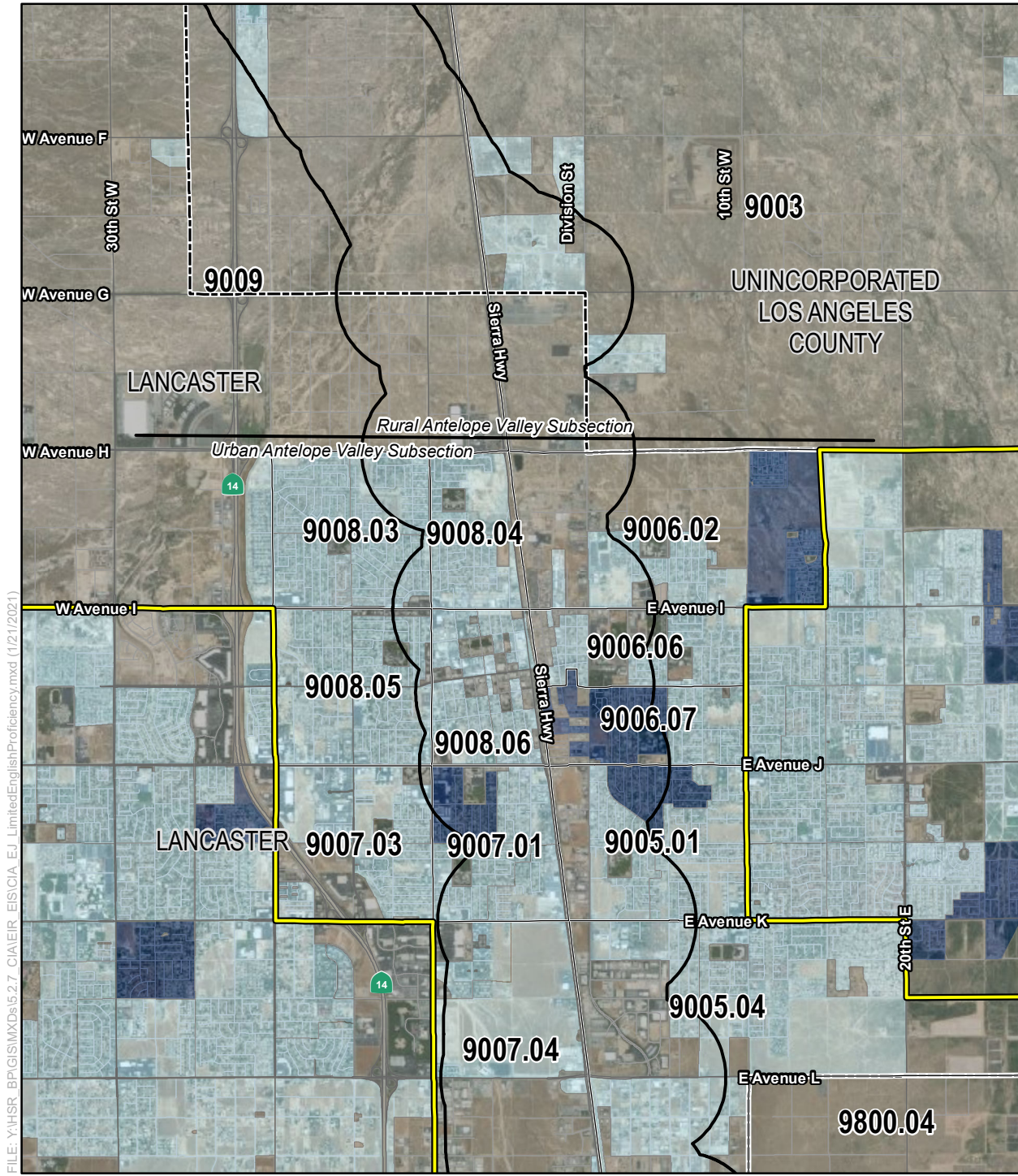


City/Census Designated Place

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)

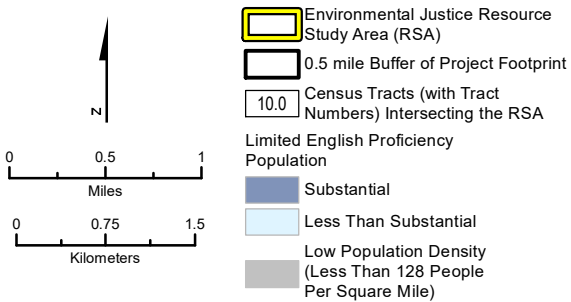
**Figure 5-A-5**  
Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
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SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)

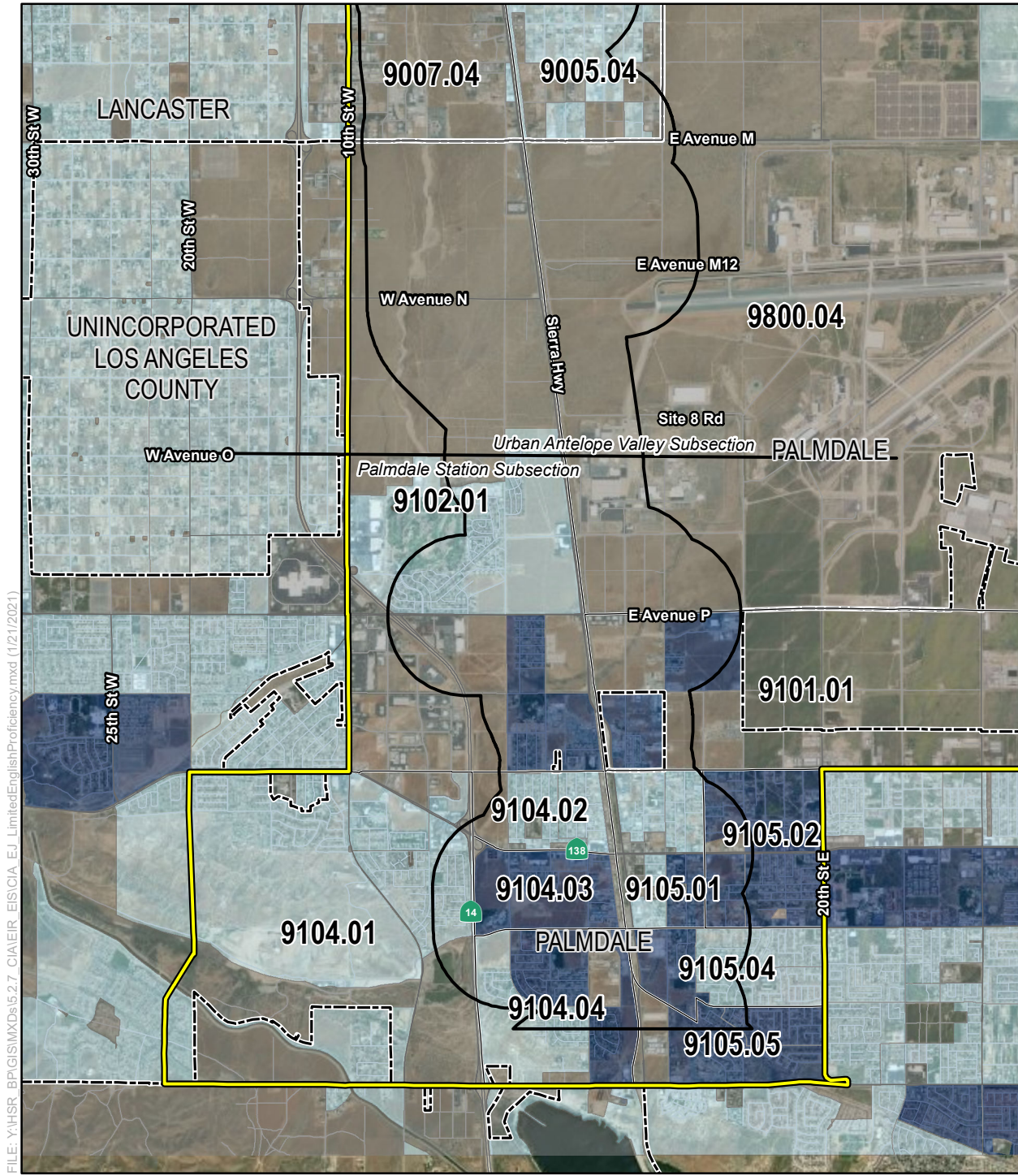


City/Census Designated Place

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)

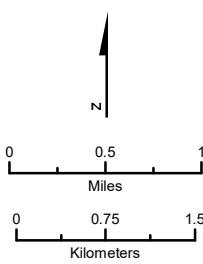
**Figure 5-A-5**  
Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
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FILE: Y:\HSR\_BPG\GIS\MapDocs\5.2.7\_CIA\EIR\_EIS\CIA\_EJ\_LimitedEnglishProficiency.mxd (1/21/2021)

SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



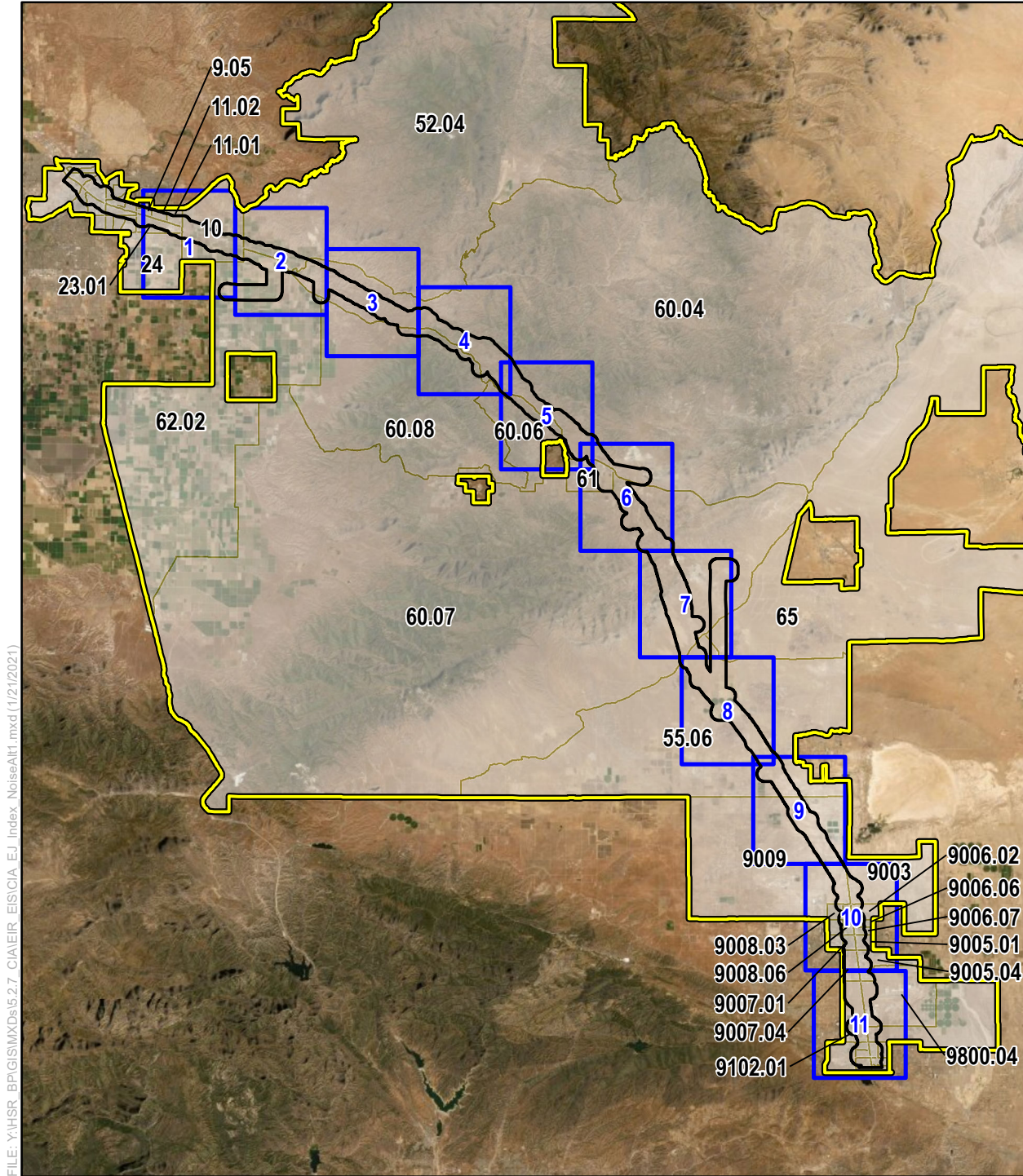
- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- Census Tracts (with Tract Numbers) Intersecting the RSA
- Limited English Proficiency Population**
- Substantial
- Less Than Substantial
- Low Population Density (Less Than 128 People Per Square Mile)

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)

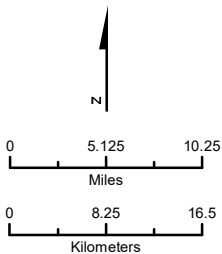
**Figure 5-A-5**  
Limited English Proficiency Populations in the Environmental Justice Resource Study Area  
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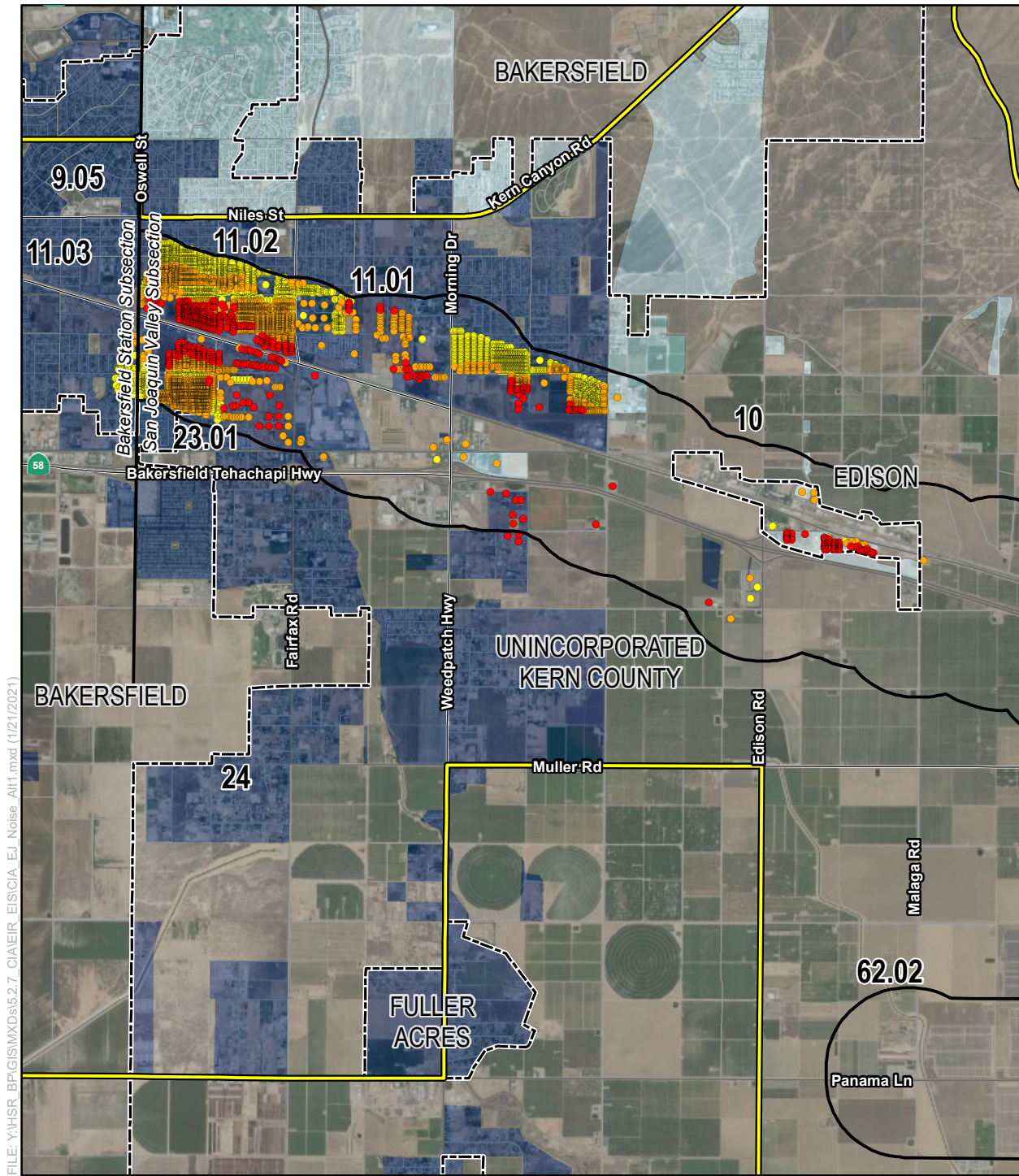
SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



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

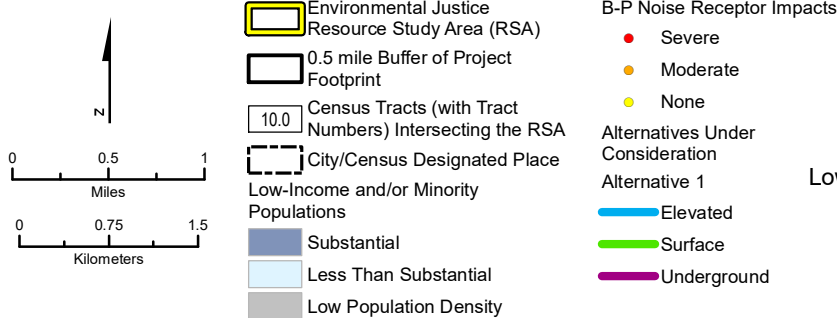
**Figure 5-A-6**  
 Operation-Phase  
 Alternative 1  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
 in the Environmental Justice  
 Resource Study Area  
 Map Index for Pages 1-11





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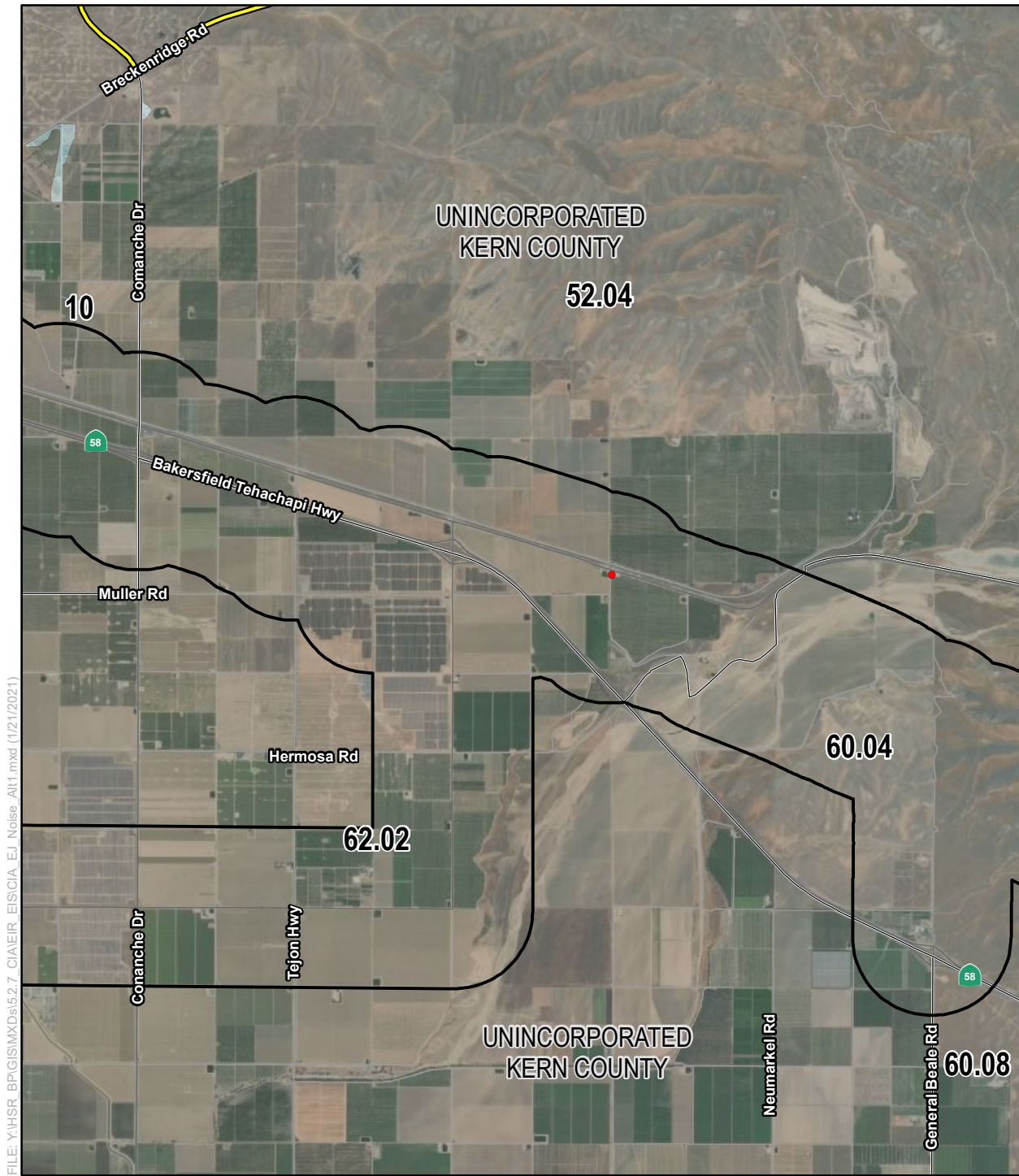
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**Figure 5-A-6**

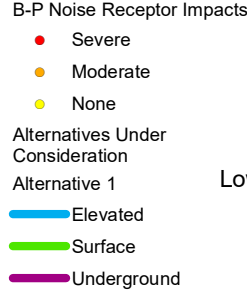
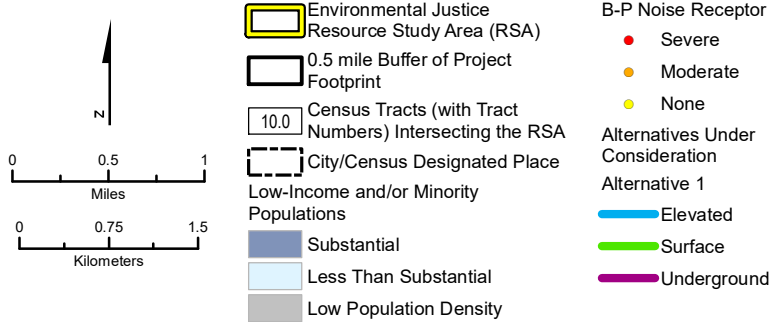
Operation-Phase Alternative 1  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
 Page 1 of 11





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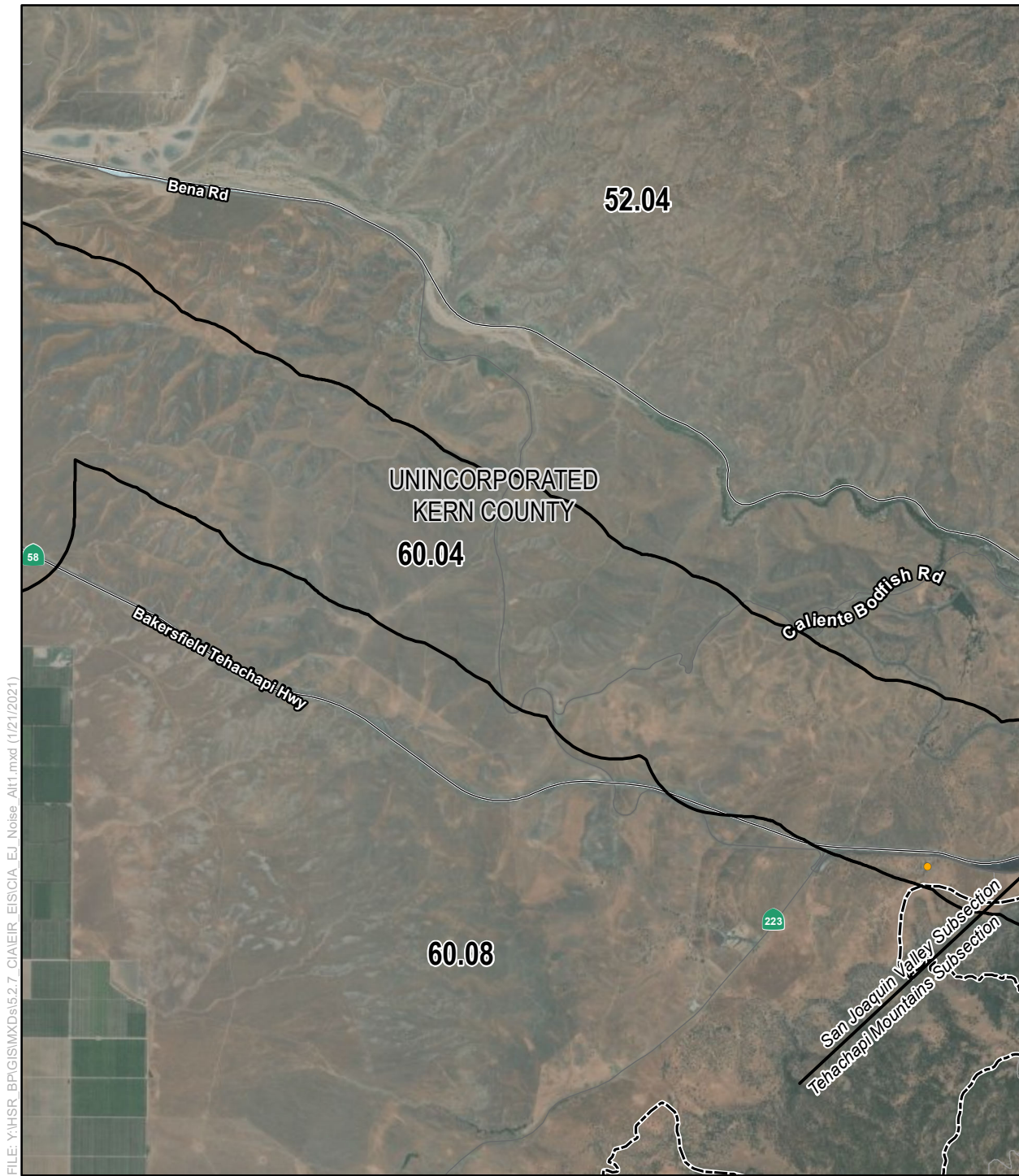
SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



**Figure 5-A-6**

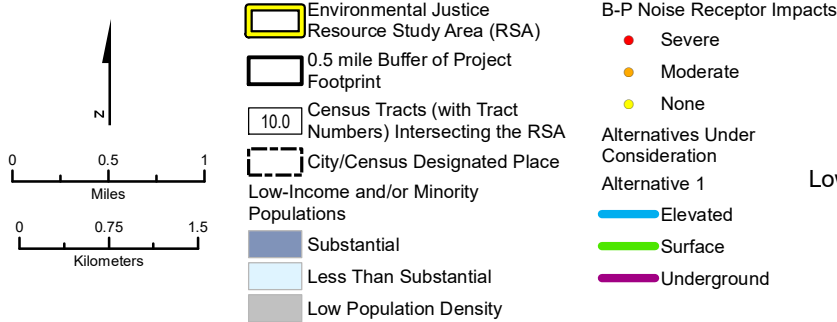
Operation-Phase Alternative 1  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
 Page 2 of 11





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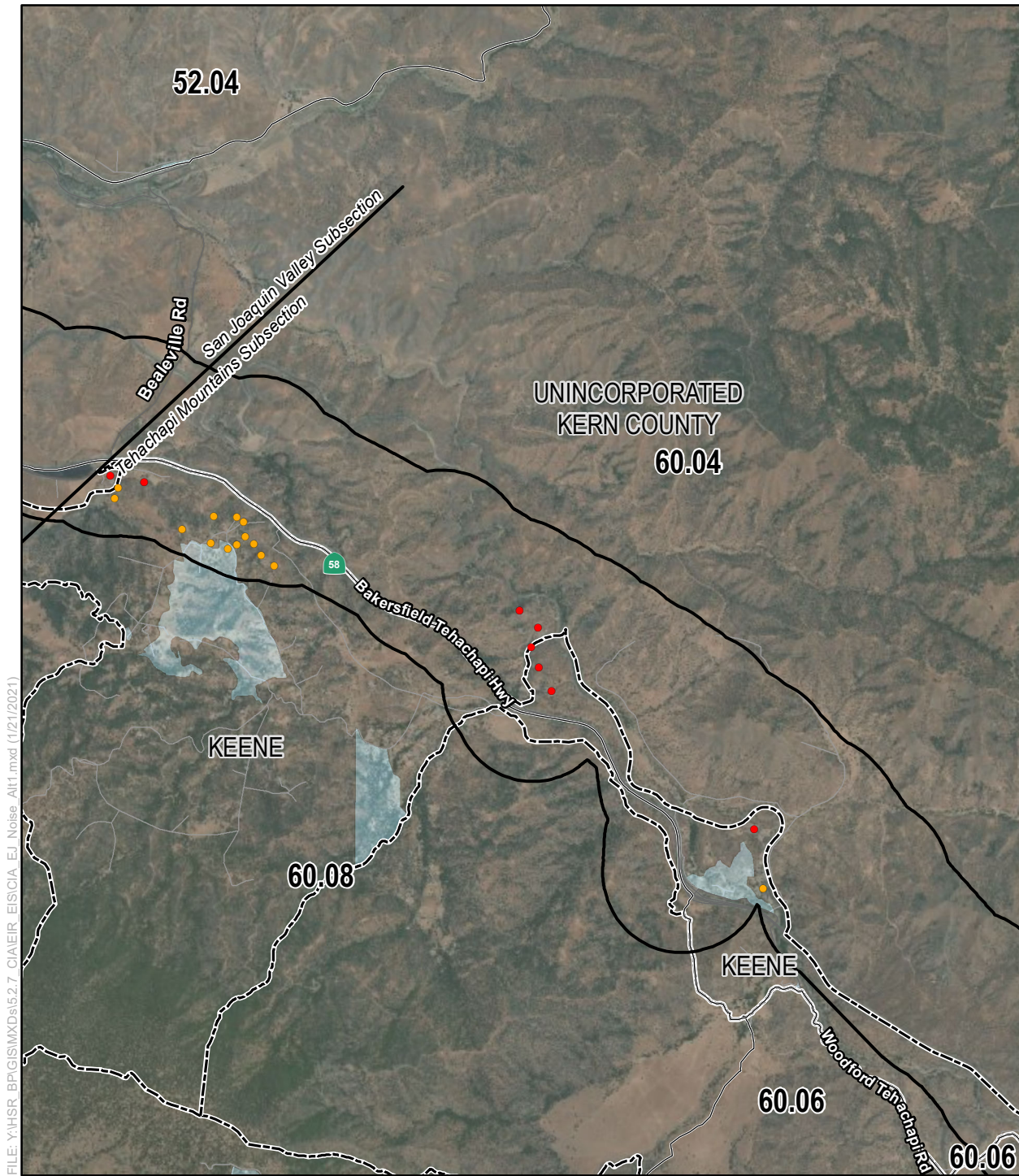
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**Figure 5-A-6**

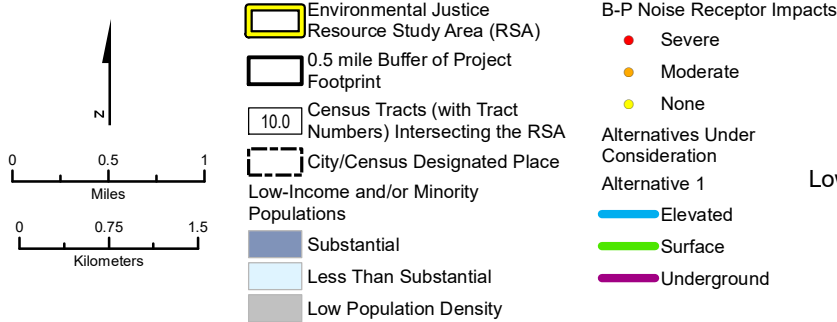
Operation-Phase Alternative 1  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
 Page 3 of 11





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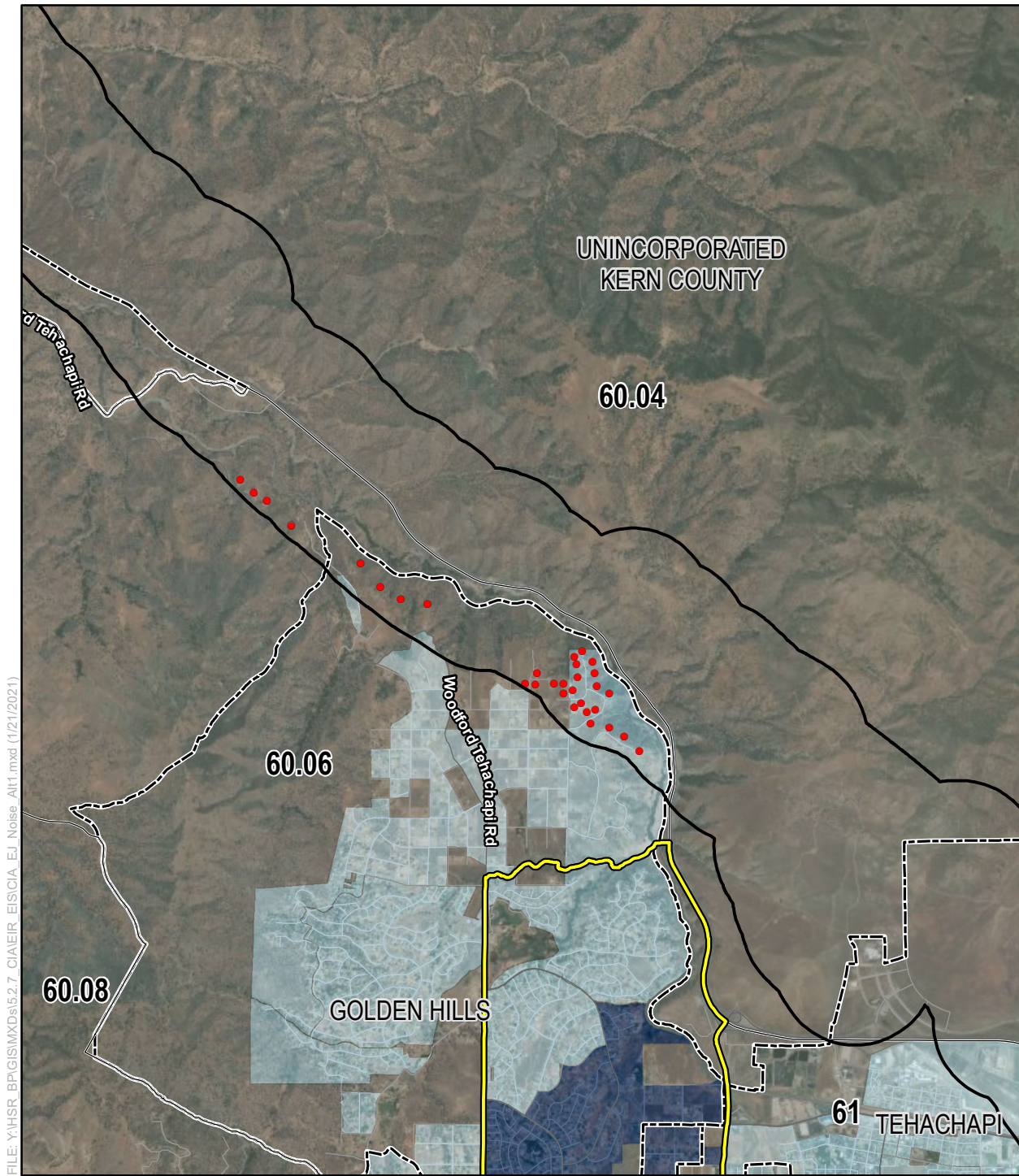
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**Figure 5-A-6**

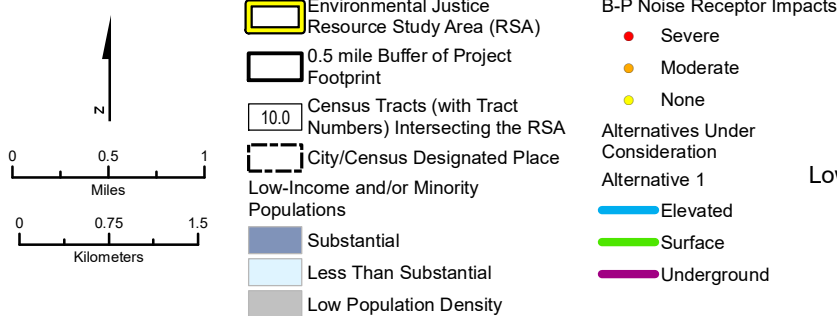
Operation-Phase Alternative 1  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
 Page 4 of 11





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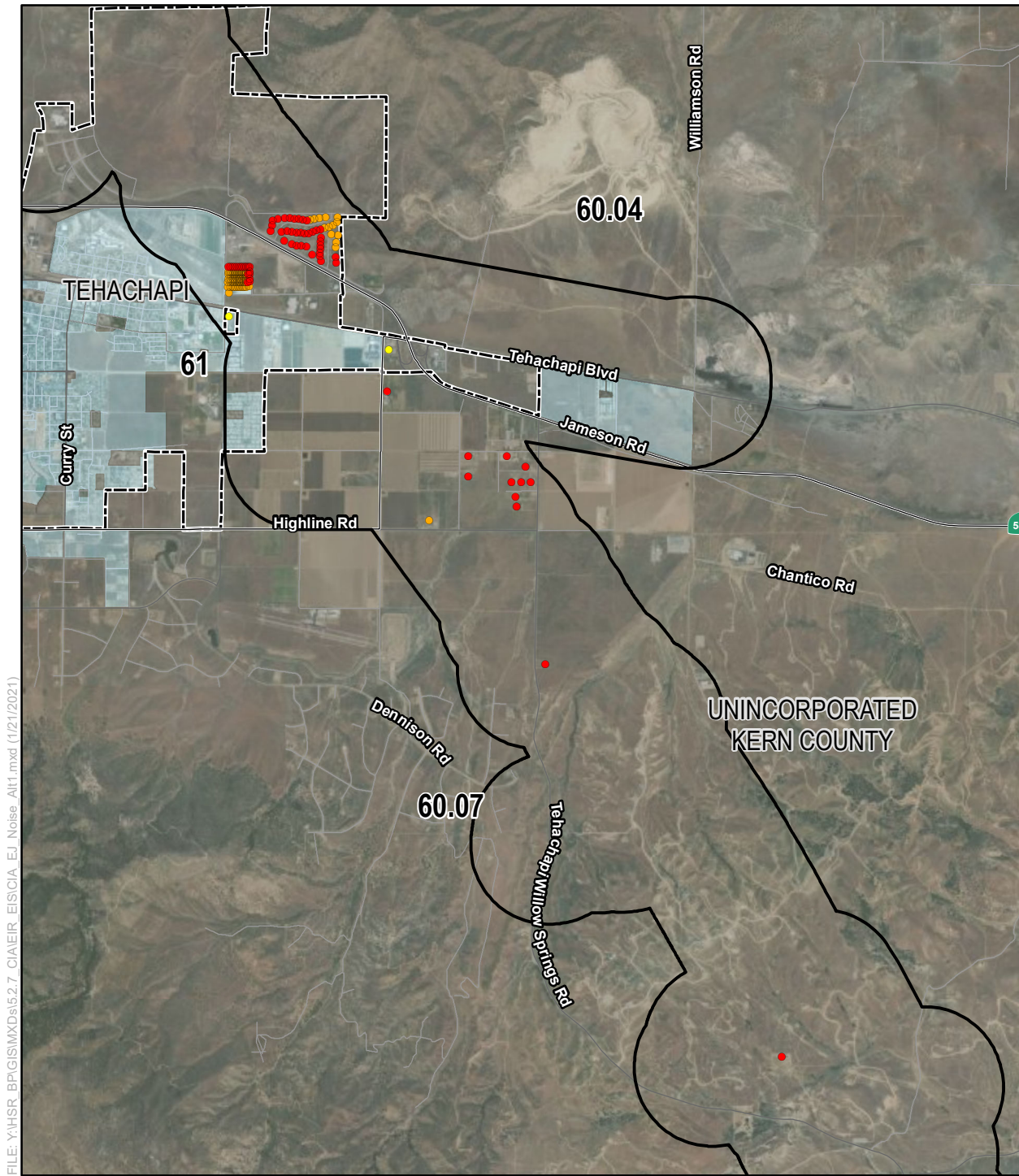
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**Figure 5-A-6**

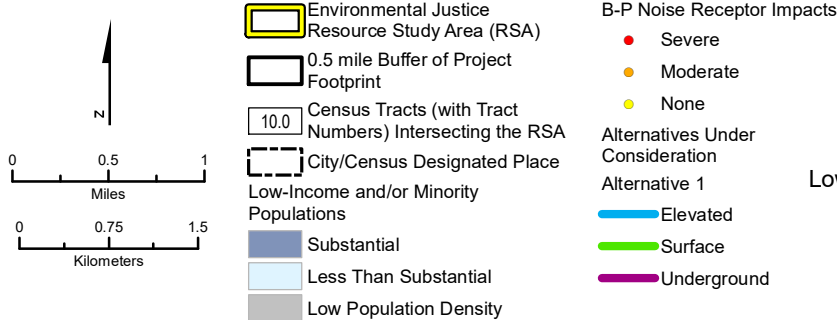
Operation-Phase Alternative 1  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
 Page 5 of 11





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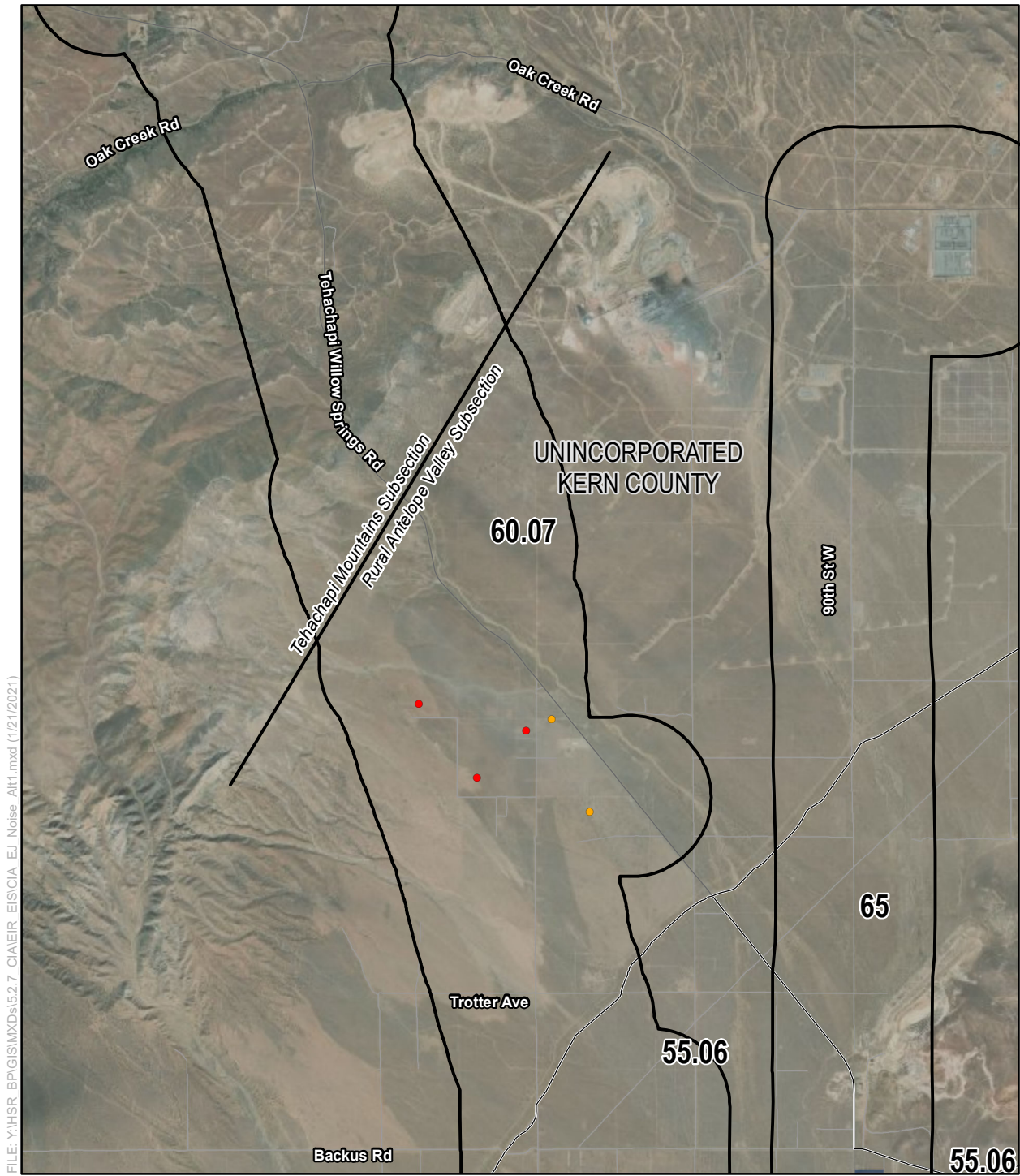
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**Figure 5-A-6**

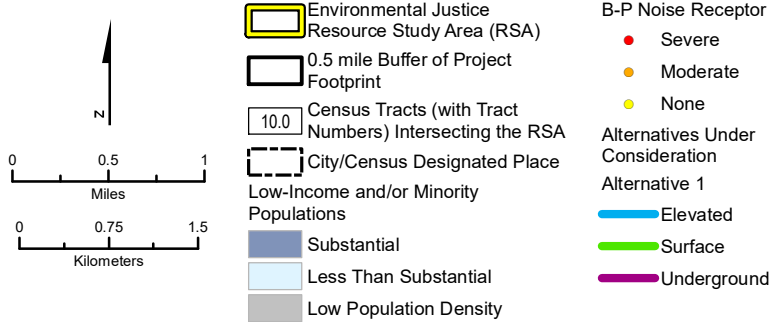
Operation-Phase Alternative 1  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
 Page 6 of 11





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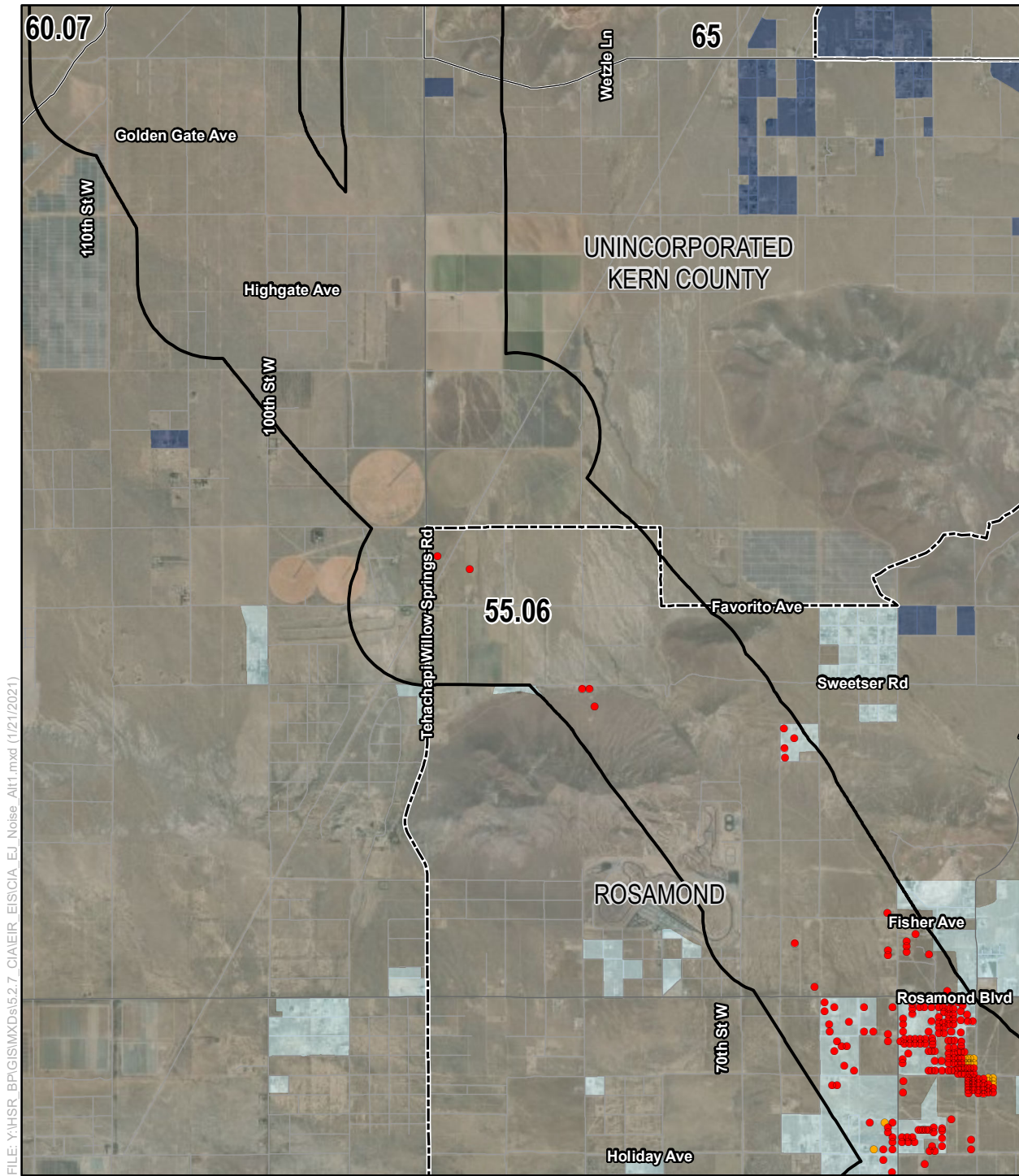
SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



**Figure 5-A-6**

Operation-Phase Alternative 1  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
 Page 7 of 11

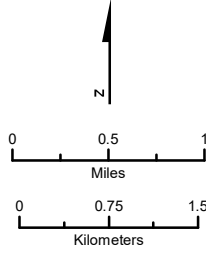




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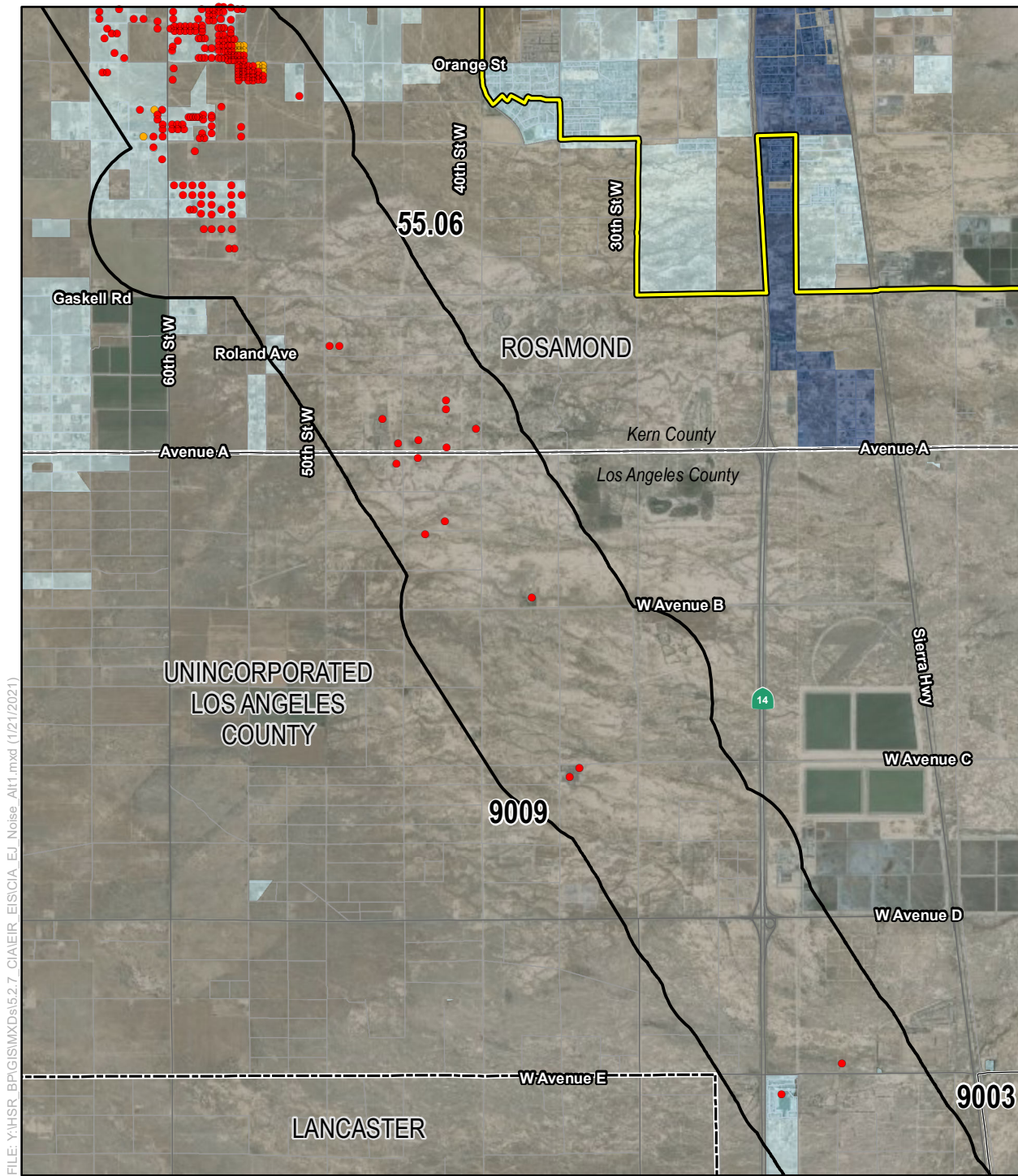
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| <p> Environmental Justice Resource Study Area (RSA)</p> <p> 0.5 mile Buffer of Project Footprint</p> <p> Census Tracts (with Tract Numbers) Intersecting the RSA</p> <p> City/Census Designated Place</p> <p> Low-Income and/or Minority Populations</p> <p> Substantial</p> <p> Less Than Substantial</p> <p> Low Population Density</p> | <p><b>B-P Noise Receptor Impacts</b></p> <p> Severe</p> <p> Moderate</p> <p> None</p> <p><b>Alternatives Under Consideration</b></p> <p><b>Alternative 1</b></p> <p> Elevated</p> <p> Surface</p> <p> Underground</p> |
|---|---|



**Figure 5-A-6**

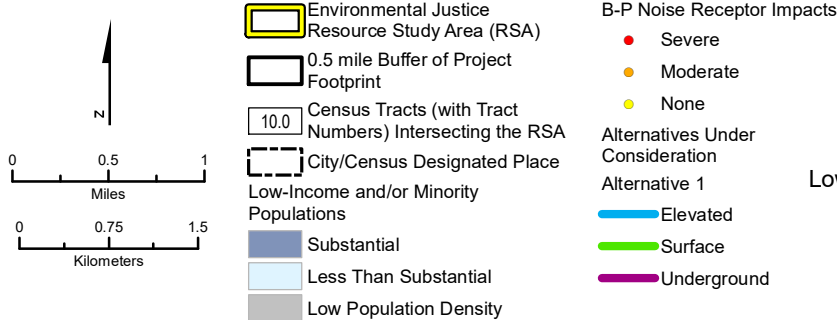
Operation-Phase Alternative 1  
Noise Receptor Impacts  
Low-Income and/or Minority Populations  
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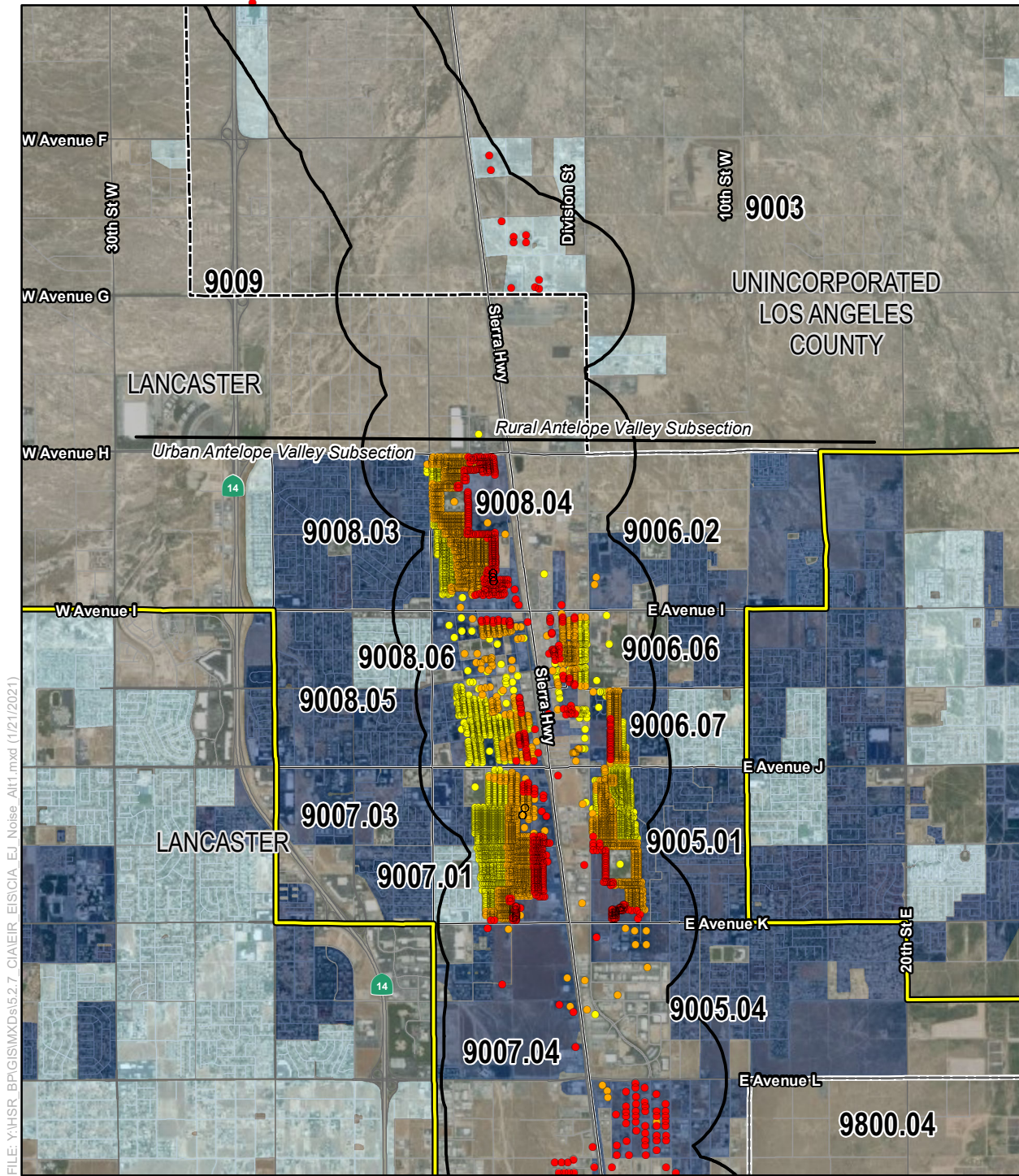
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**Figure 5-A-6**

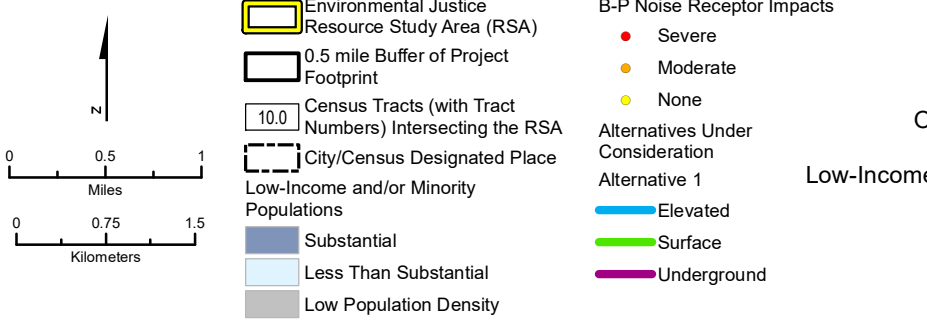
Operation-Phase Alternative 1  
Noise Receptor Impacts  
Low-Income and/or Minority Populations  
Page 9 of 11





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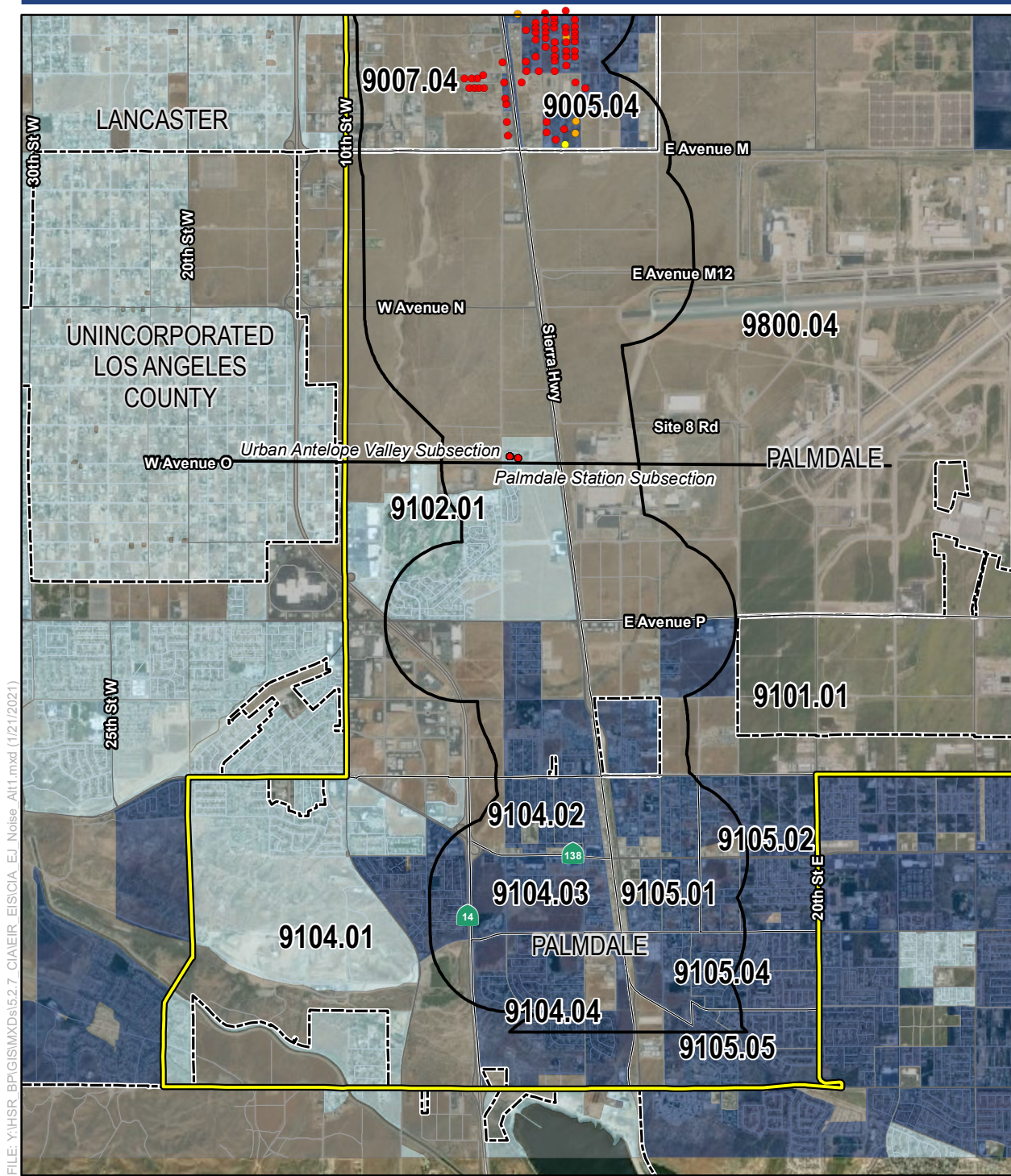
SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



**Figure 5-A-6**

Operation-Phase Alternative 1  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
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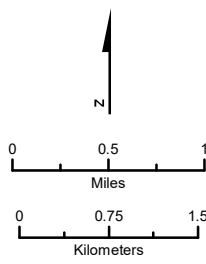




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SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)

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|--|--|
| <ul style="list-style-type: none"> <li> Environmental Justice Resource Study Area (RSA)</li> <li> 0.5 mile Buffer of Project Footprint</li> <li> Census Tracts (with Tract Numbers) Intersecting the RSA</li> <li> City/Census Designated Place</li> <li> Low-Income and/or Minority Populations             <ul style="list-style-type: none"> <li> Substantial</li> <li> Less Than Substantial</li> <li> Low Population Density</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li><b>B-P Noise Receptor Impacts</b></li> <li> Severe</li> <li> Moderate</li> <li> None</li> <li><b>Alternatives Under Consideration</b></li> <li><b>Alternative 1</b></li> <li> Elevated</li> <li> Surface</li> <li> Underground</li> </ul> |
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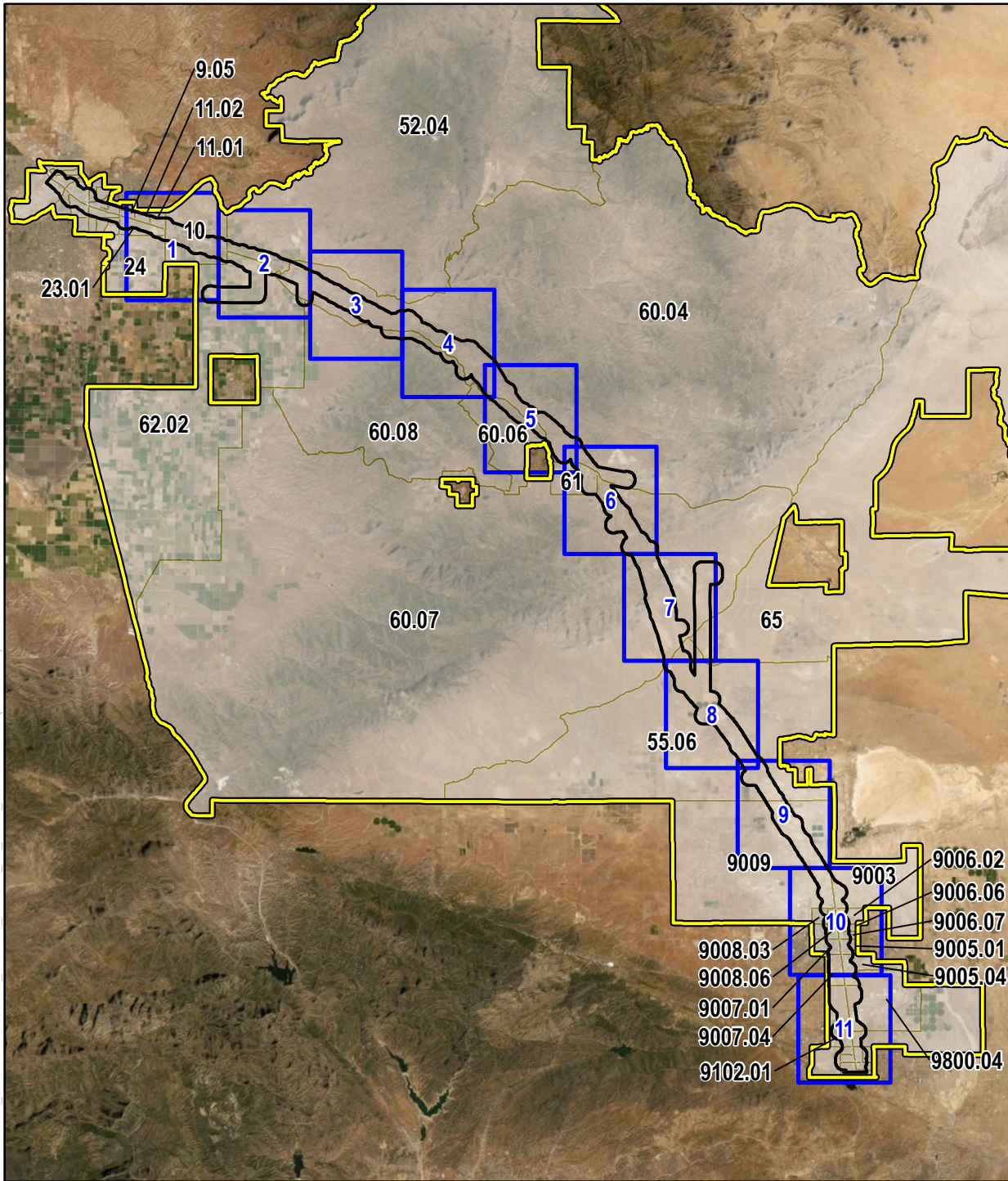


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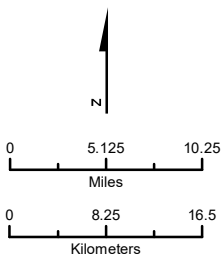
Operation-Phase Alternative 1  
Noise Receptor Impacts  
Low-Income and/or Minority Populations  
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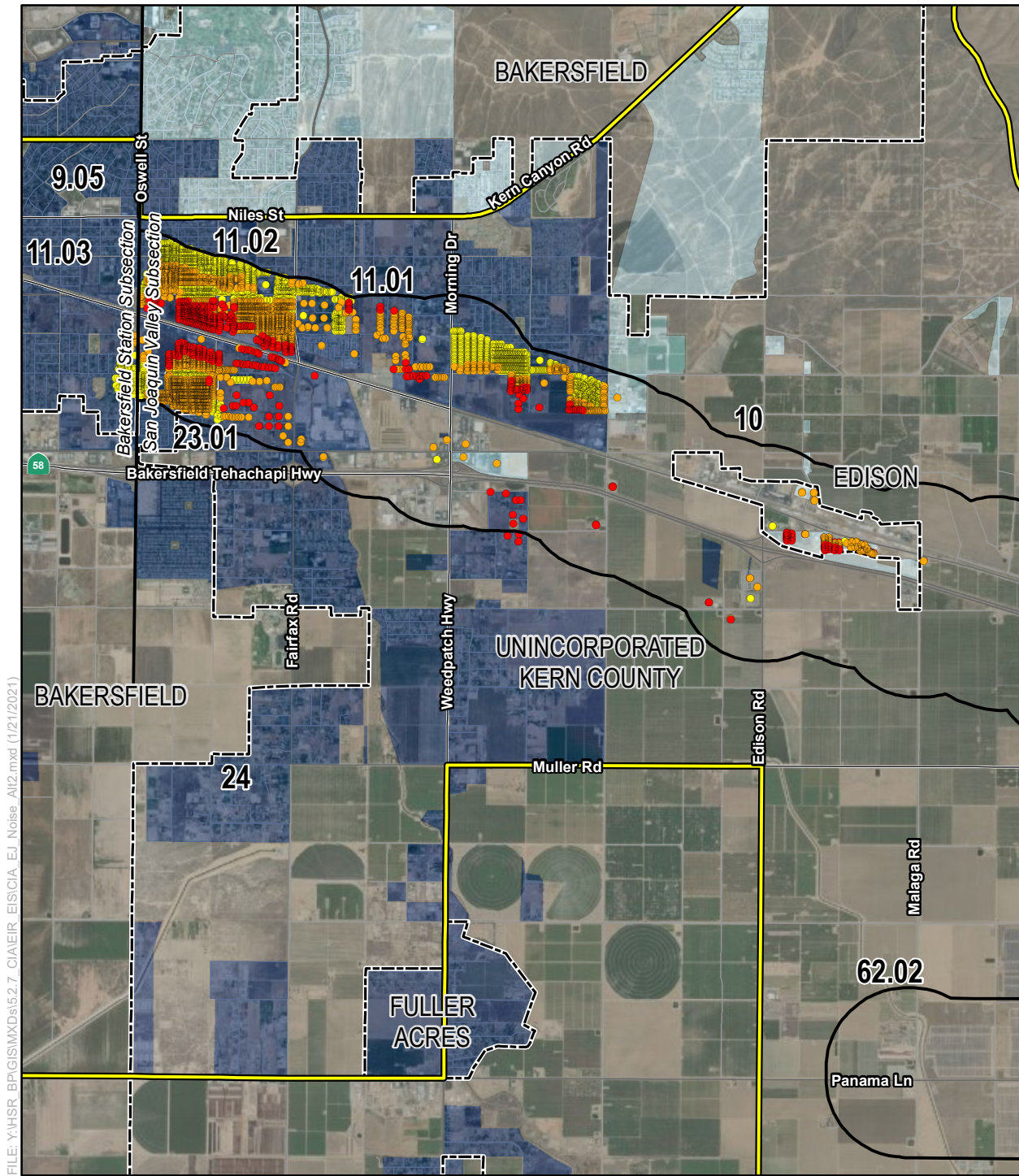
SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



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

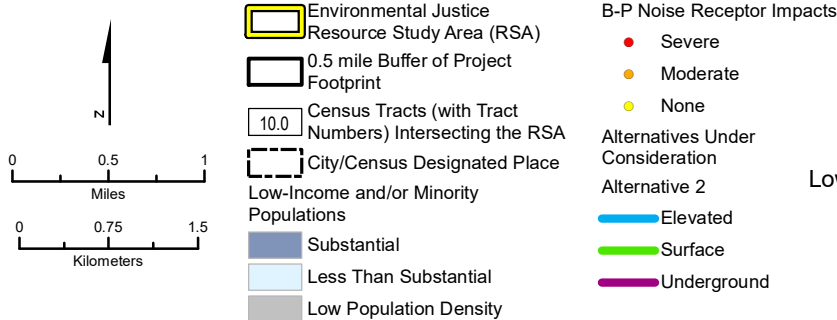
**Figure 5-A-7**  
 Operation-Phase  
 Alternative 2  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
 in the Environmental Justice  
 Resource Study Area  
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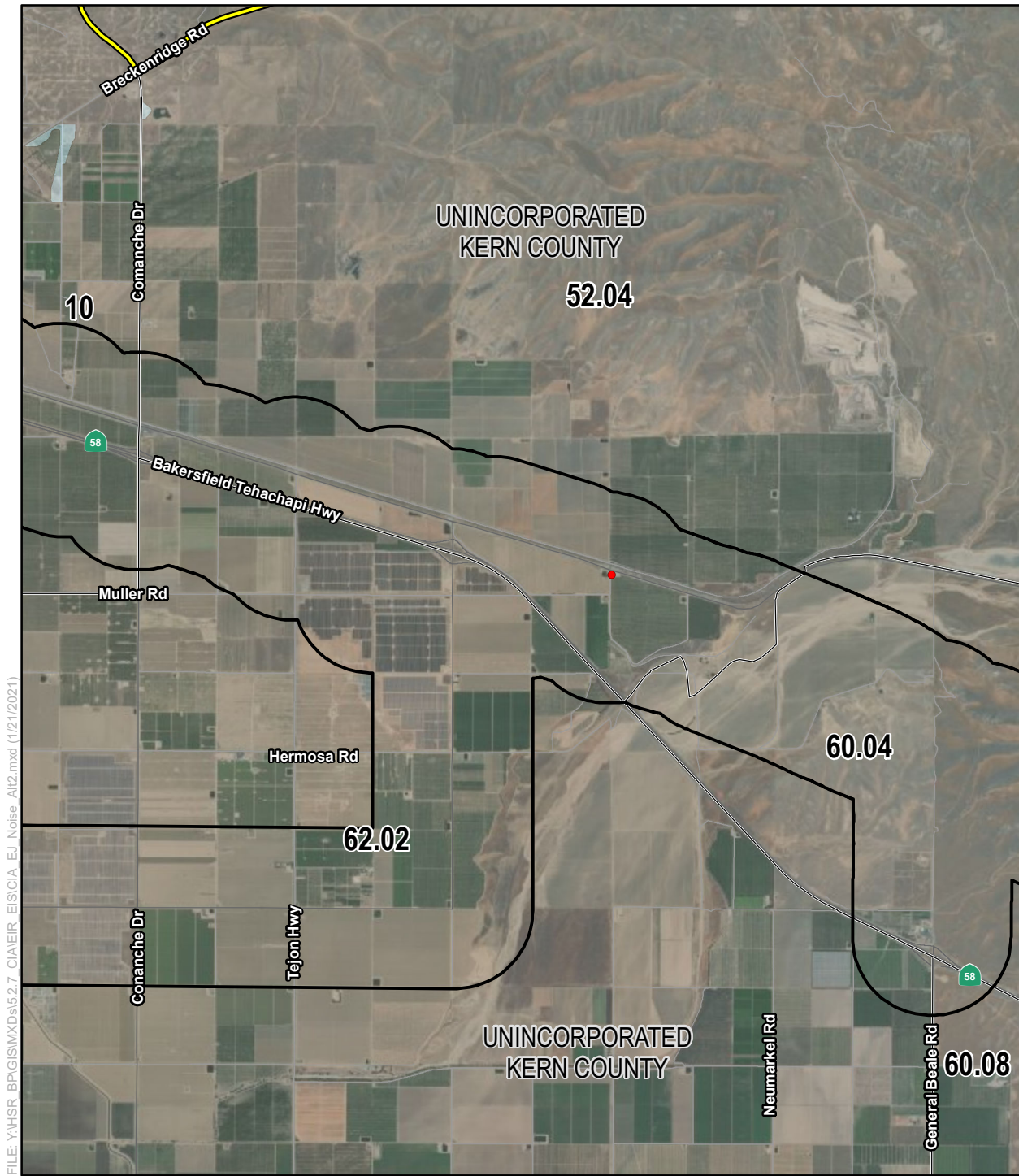
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**Figure 5-A-7**

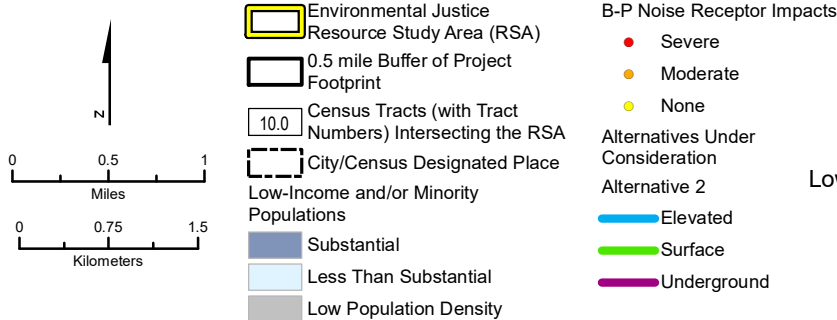
Operation-Phase Alternative 2  
Noise Receptor Impacts  
Low-Income and/or Minority Populations  
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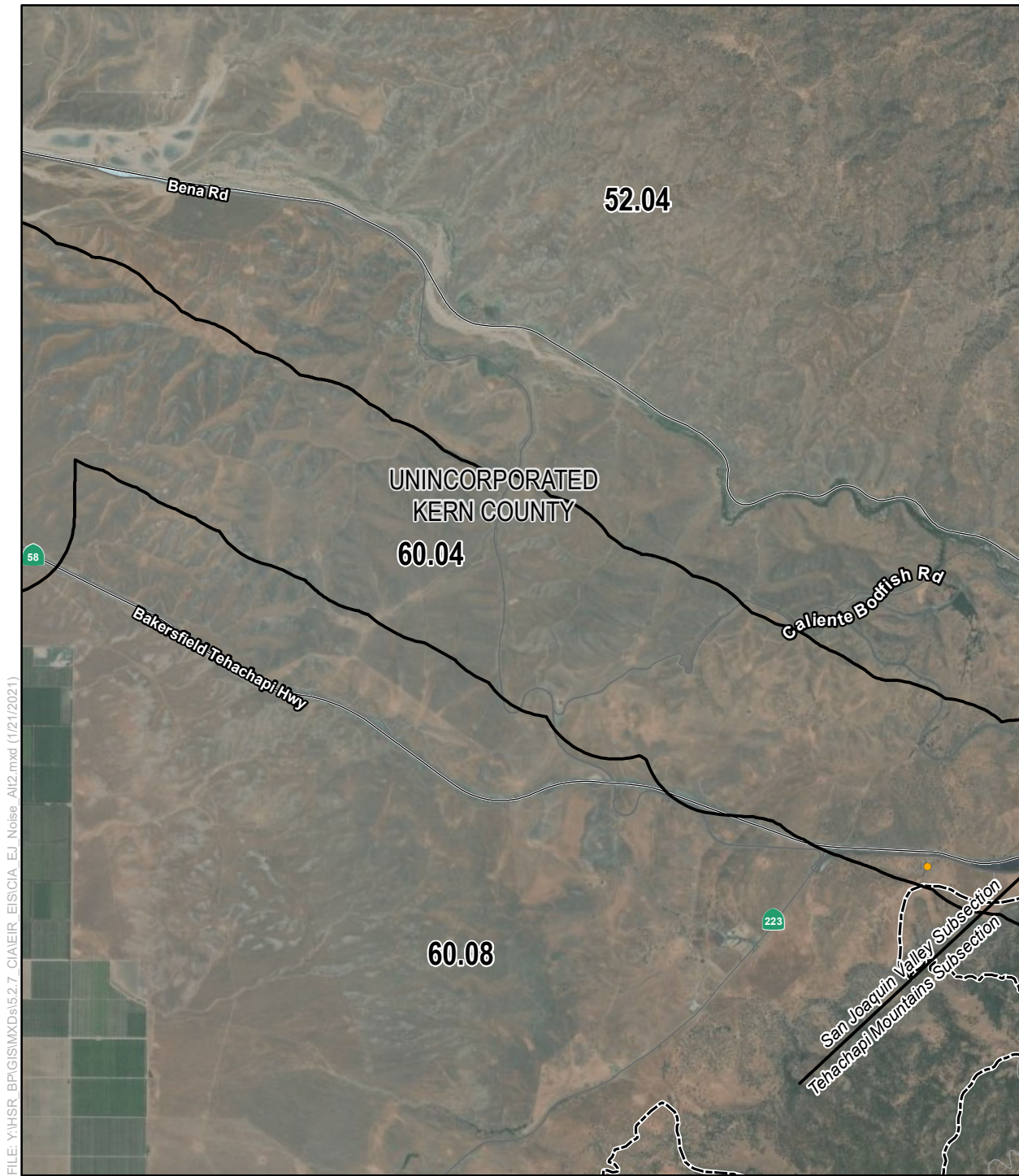
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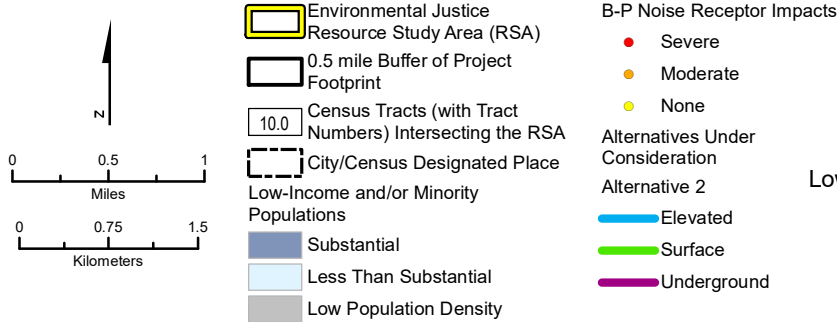
**Figure 5-A-7**  
 Operation-Phase Alternative 2  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
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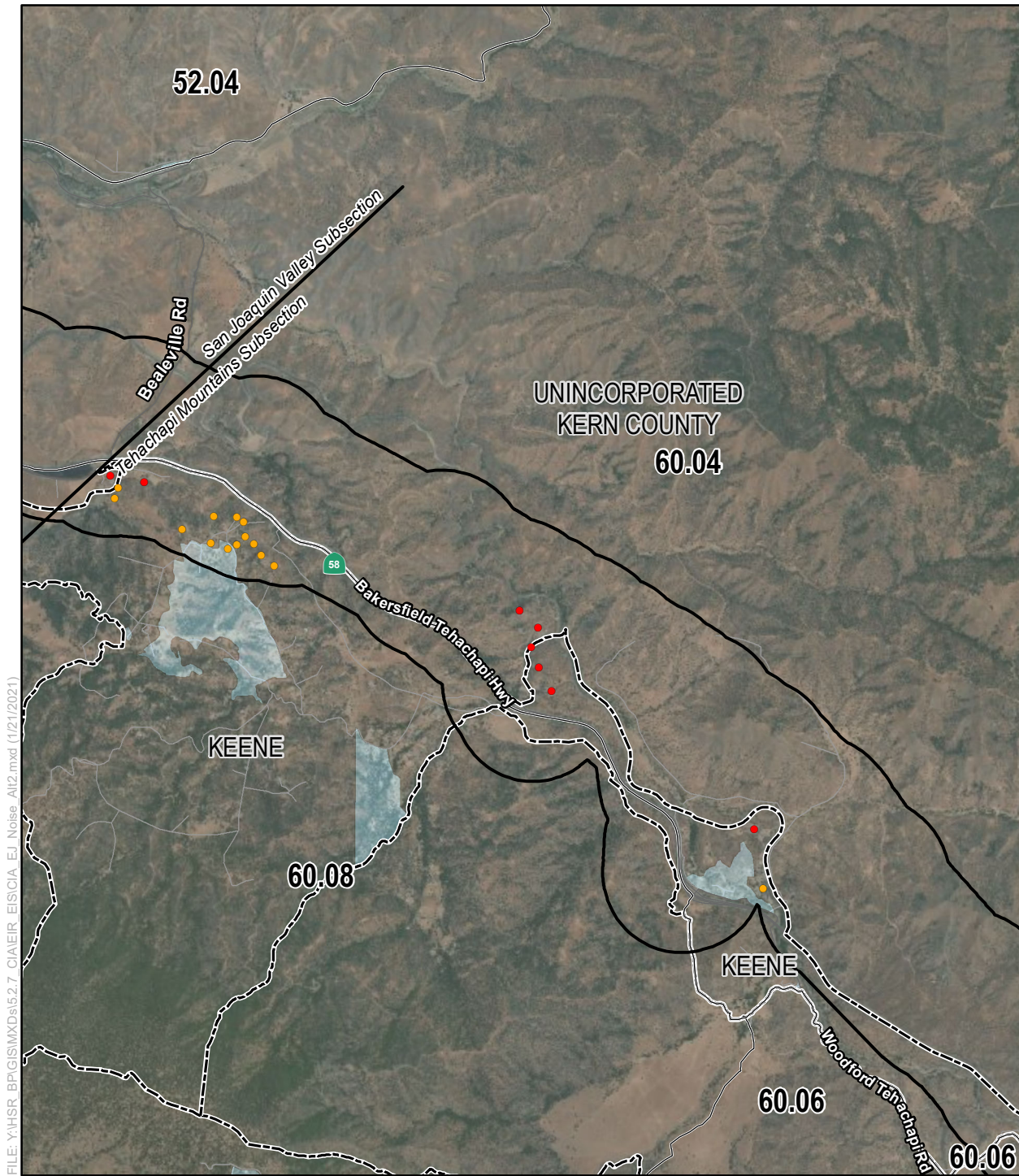
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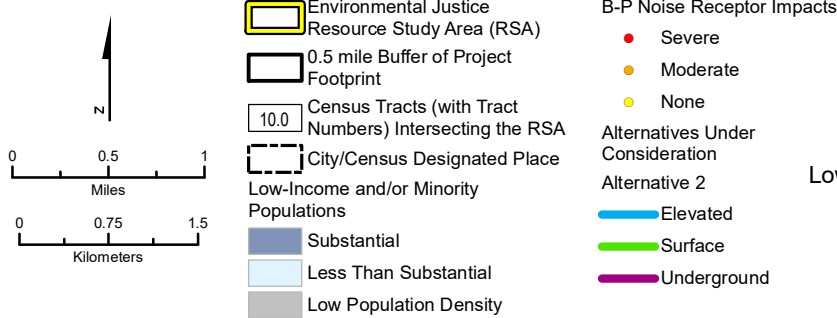
**Figure 5-A-7**  
 Operation-Phase Alternative 2  
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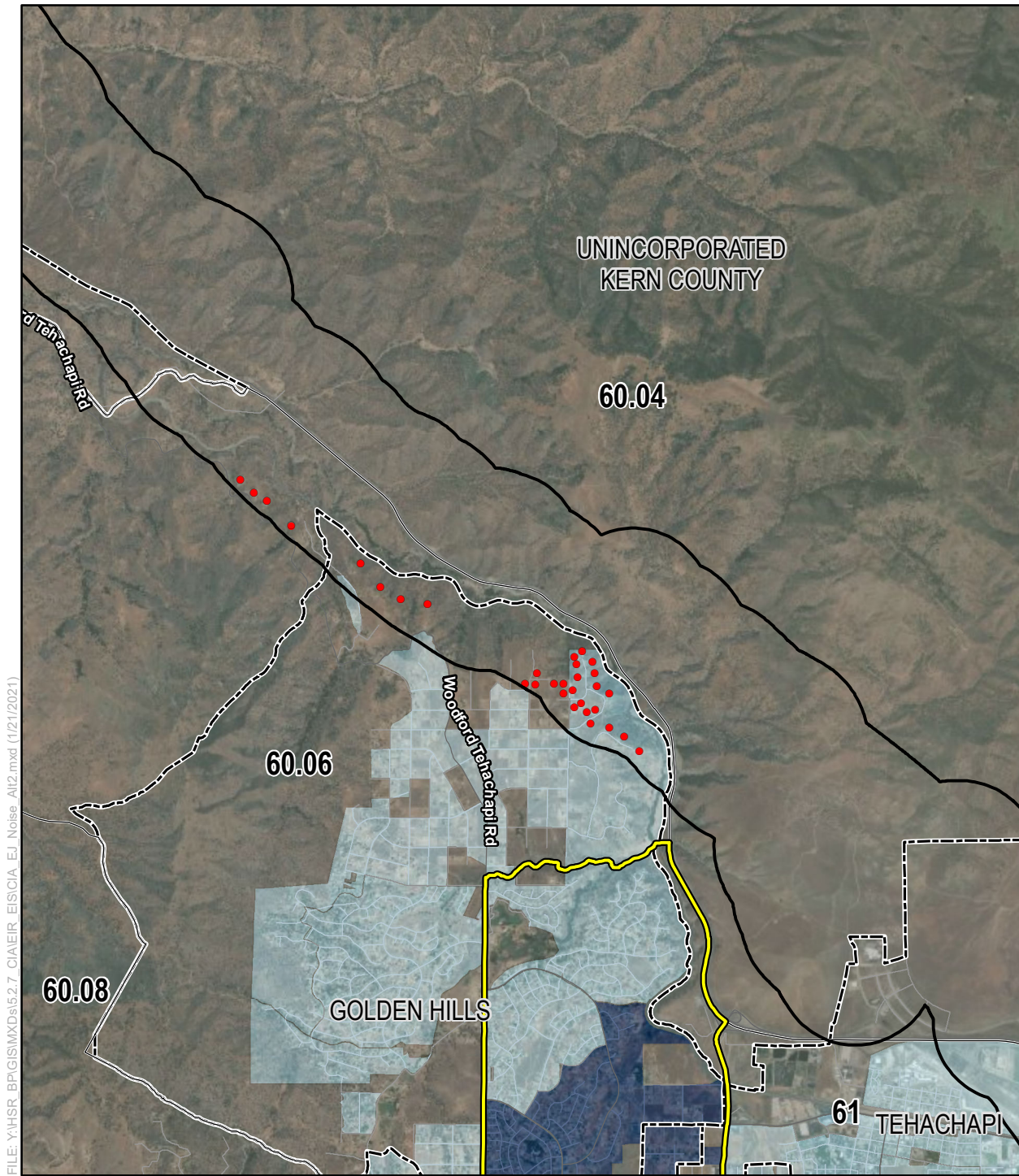
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**Figure 5-A-7**

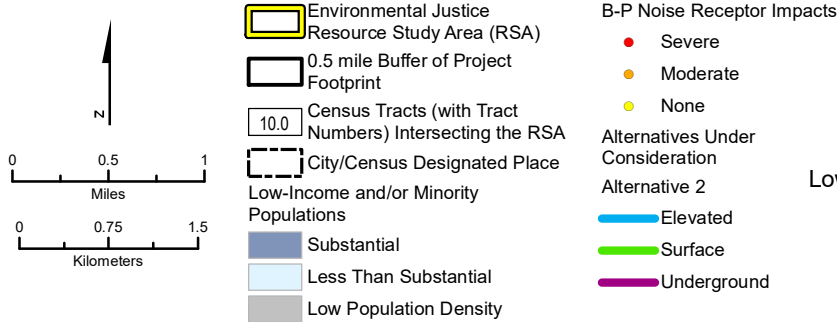
Operation-Phase Alternative 2  
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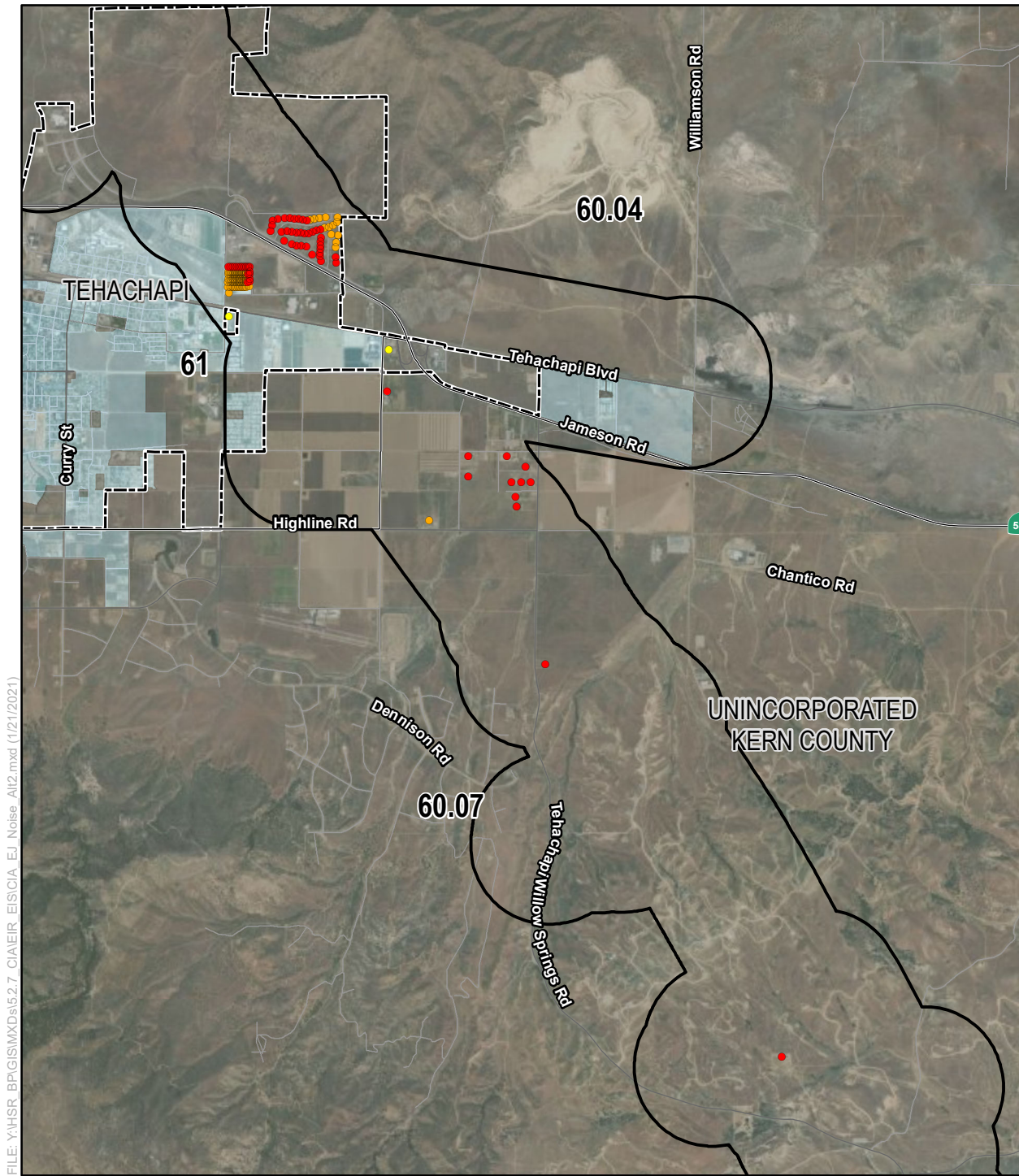
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**Figure 5-A-7**

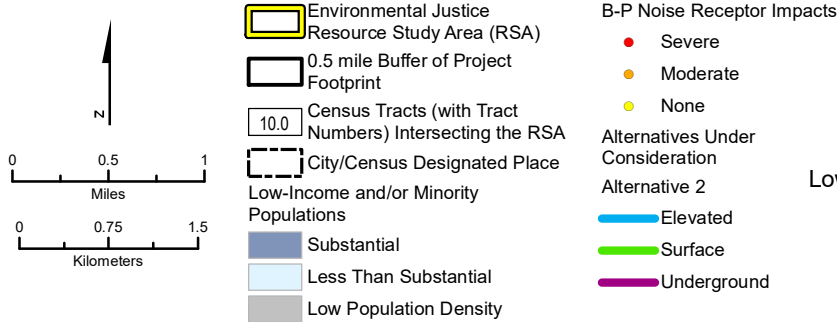
Operation-Phase Alternative 2  
 Noise Receptor Impacts  
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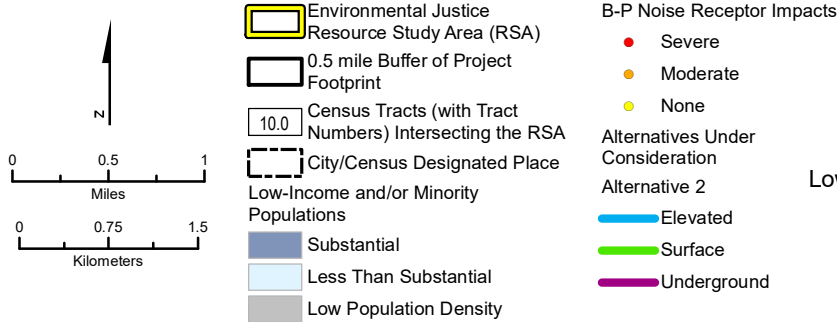
**Figure 5-A-7**  
 Operation-Phase Alternative 2  
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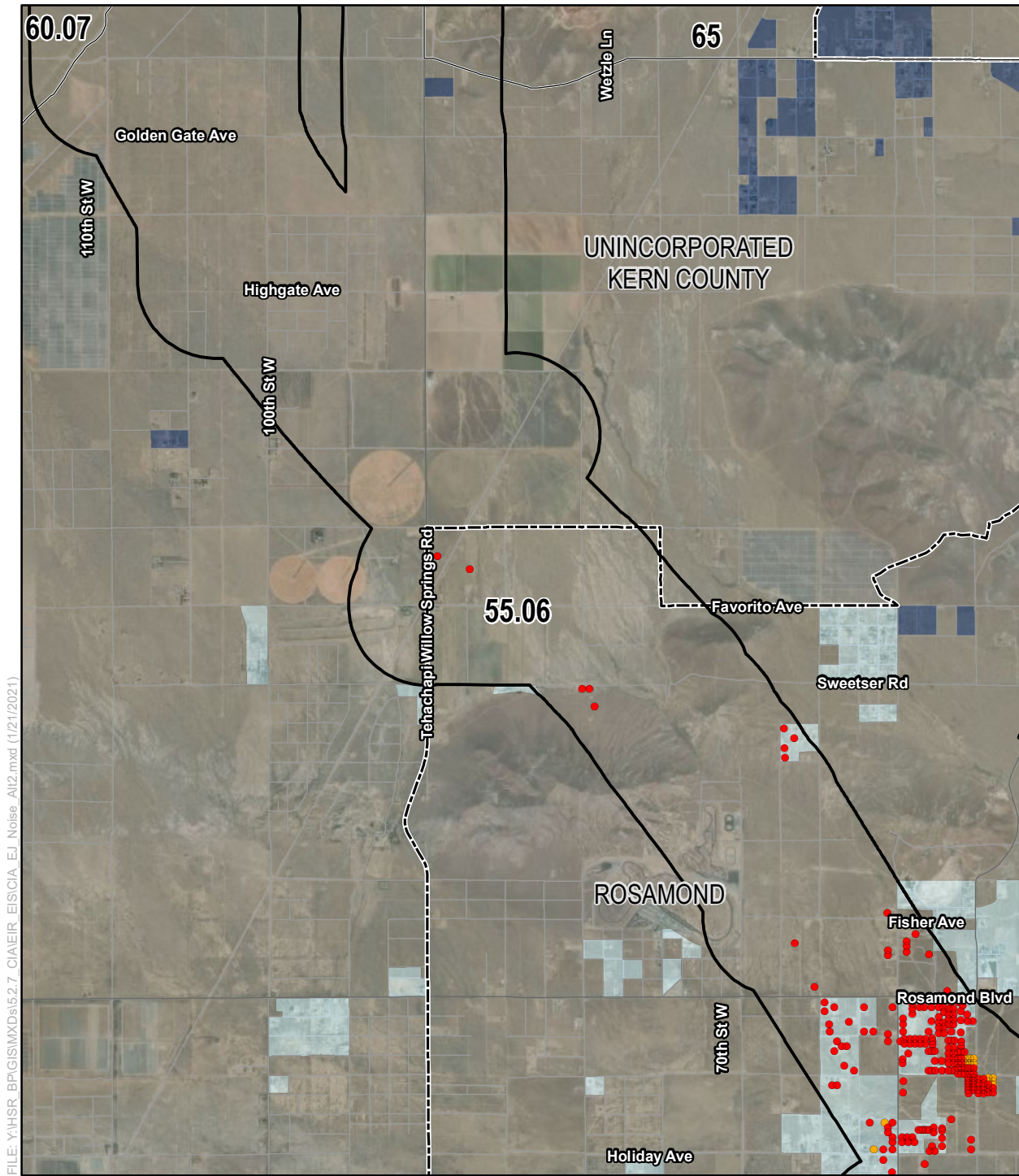
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**Figure 5-A-7**

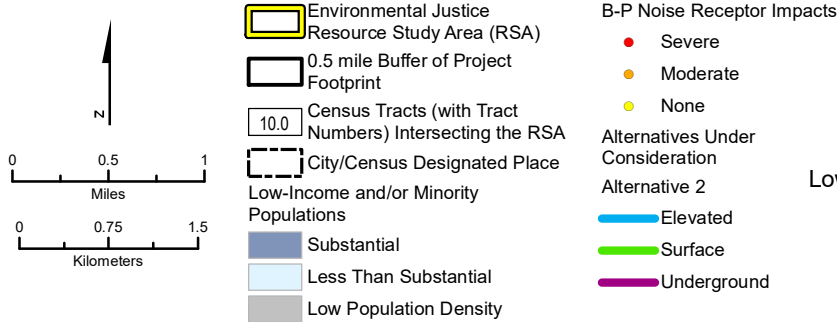
Operation-Phase Alternative 2  
 Noise Receptor Impacts  
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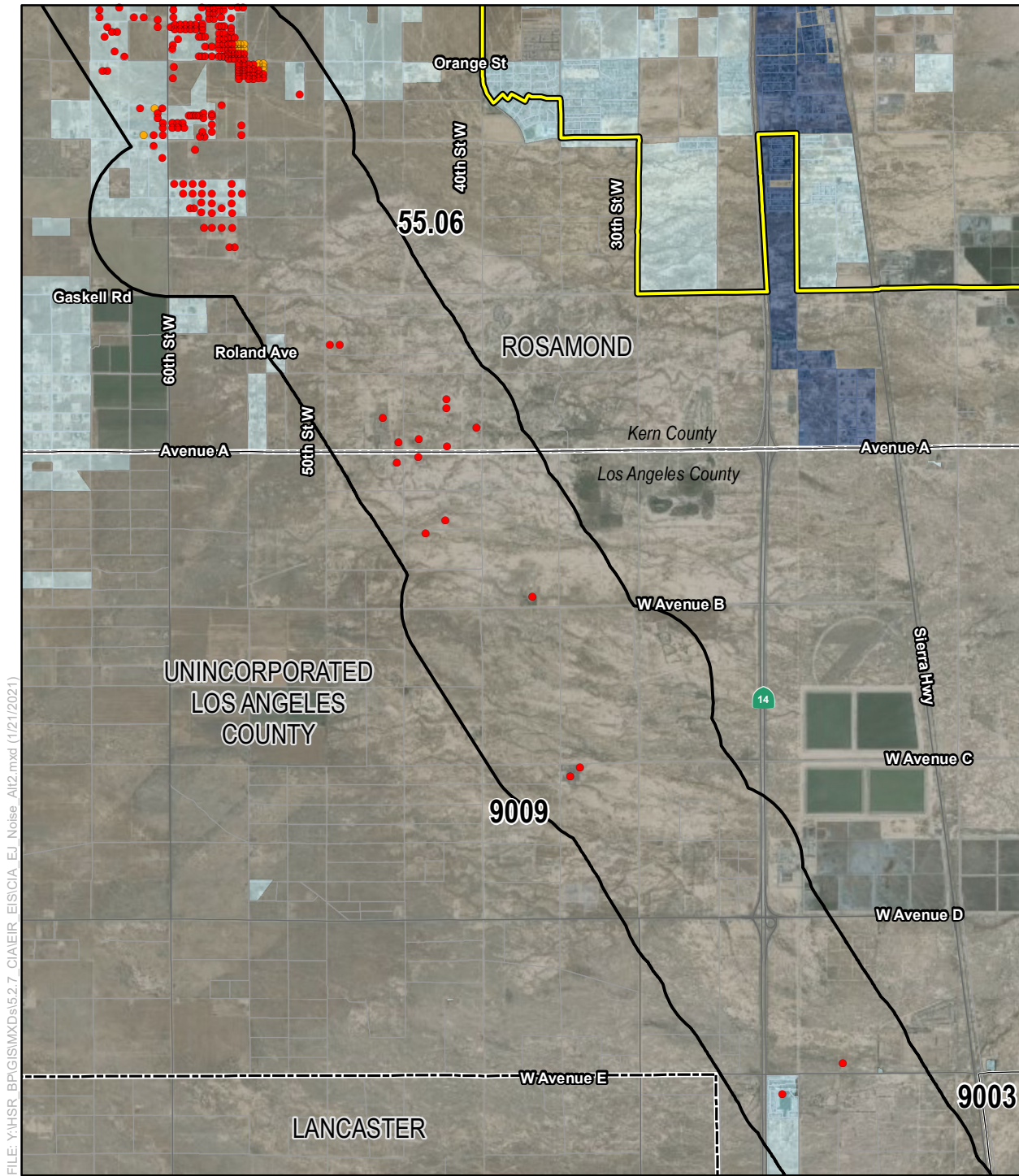
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**Figure 5-A-7**

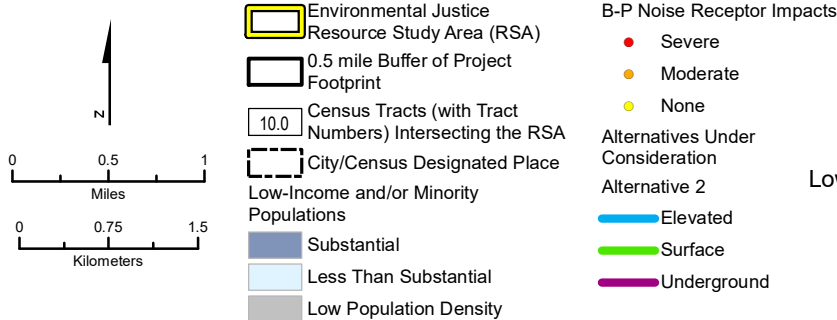
Operation-Phase Alternative 2  
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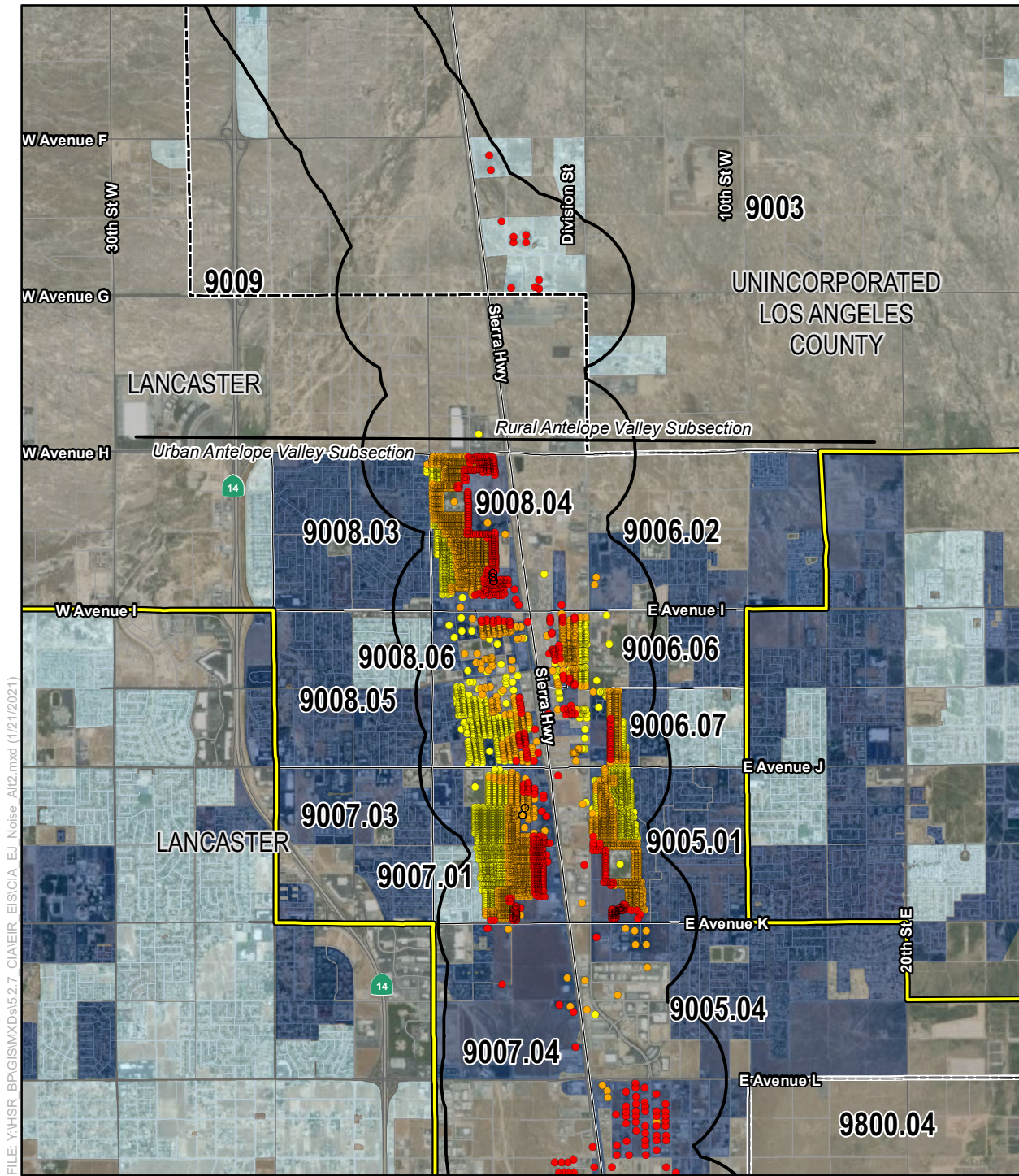
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**Figure 5-A-7**

Operation-Phase Alternative 2  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
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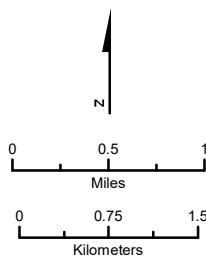




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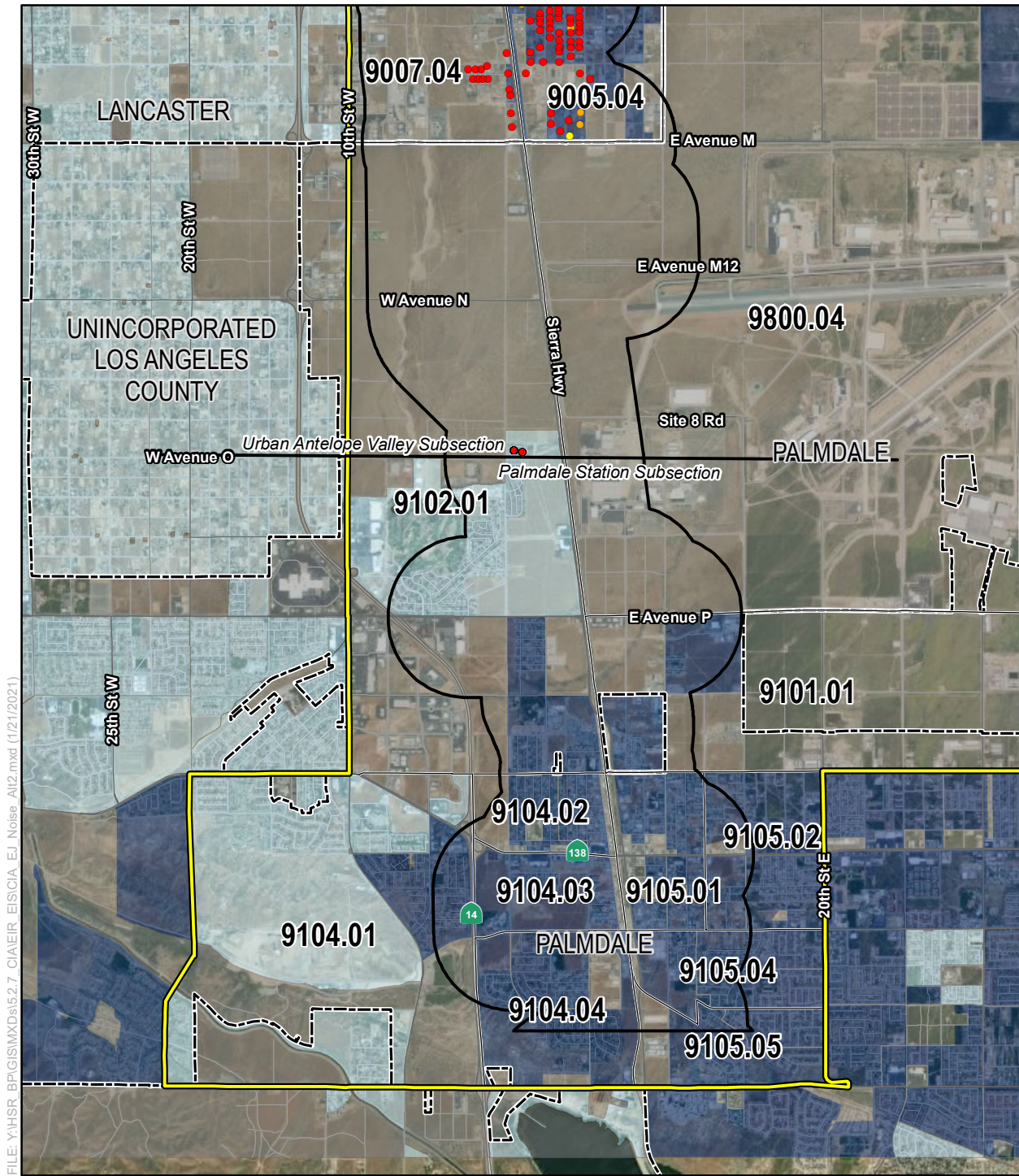
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| <p> Environmental Justice Resource Study Area (RSA)</p> <p> 0.5 mile Buffer of Project Footprint</p> <p> Census Tracts (with Tract Numbers) Intersecting the RSA</p> <p> City/Census Designated Place</p> <p>Low-Income and/or Minority Populations</p> <p> Substantial</p> <p> Less Than Substantial</p> <p> Low Population Density</p> | <p><b>B-P Noise Receptor Impacts</b></p> <p> Severe</p> <p> Moderate</p> <p> None</p> <p>Alternatives Under Consideration</p> <p>Alternative 2</p> <p> Elevated</p> <p> Surface</p> <p> Underground</p> |
|--|---|



**Figure 5-A-7**

Operation-Phase Alternative 2  
Noise Receptor Impacts  
Low-Income and/or Minority Populations  
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FILE: Y:\HSR\_BP\GIS\MXD\5.2.7\_CIA\ER\_EIS\CA\_EI\_Noise\_Alt2.mxd (1/21/2021)

SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)

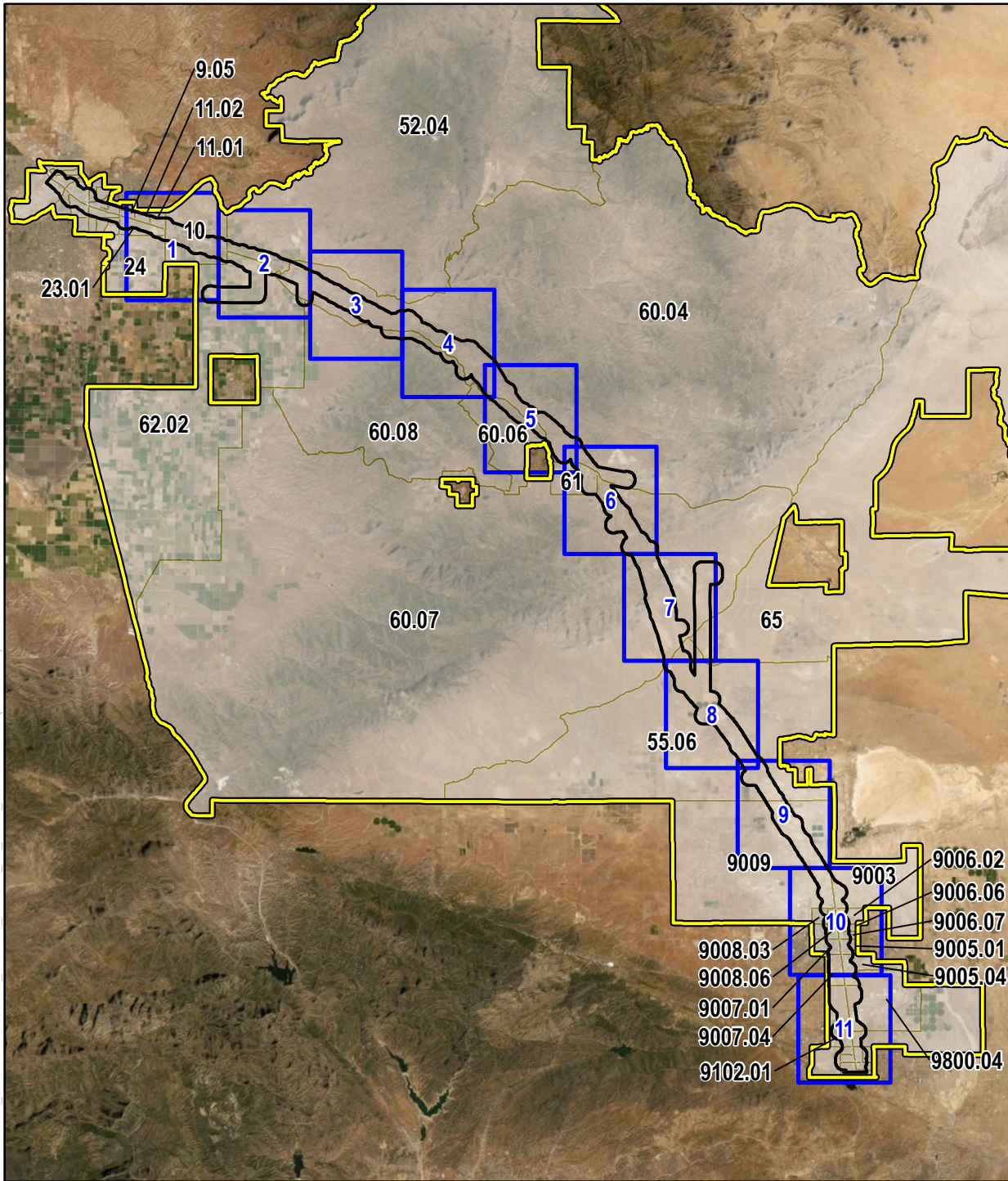
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| <p> N</p> <p>0 0.5 1<br/>Miles</p> <p>0 0.75 1.5<br/>Kilometers</p> | <ul style="list-style-type: none"> <li> Environmental Justice Resource Study Area (RSA)</li> <li> 0.5 mile Buffer of Project Footprint</li> <li> Census Tracts (with Tract Numbers) Intersecting the RSA</li> <li> City/Census Designated Place</li> <li><b>Low-Income and/or Minority Populations</b></li> <li> Substantial</li> <li> Less Than Substantial</li> <li> Low Population Density</li> </ul> | <p><b>B-P Noise Receptor Impacts</b></p> <ul style="list-style-type: none"> <li> Severe</li> <li> Moderate</li> <li> None</li> </ul> <p><b>Alternatives Under Consideration Alternative 2</b></p> <ul style="list-style-type: none"> <li> Elevated</li> <li> Surface</li> <li> Underground</li> </ul> |
|---|--|---|

**Figure 5-A-7**

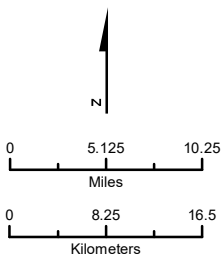
Operation-Phase Alternative 2  
Noise Receptor Impacts  
Low-Income and/or Minority Populations  
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SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



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

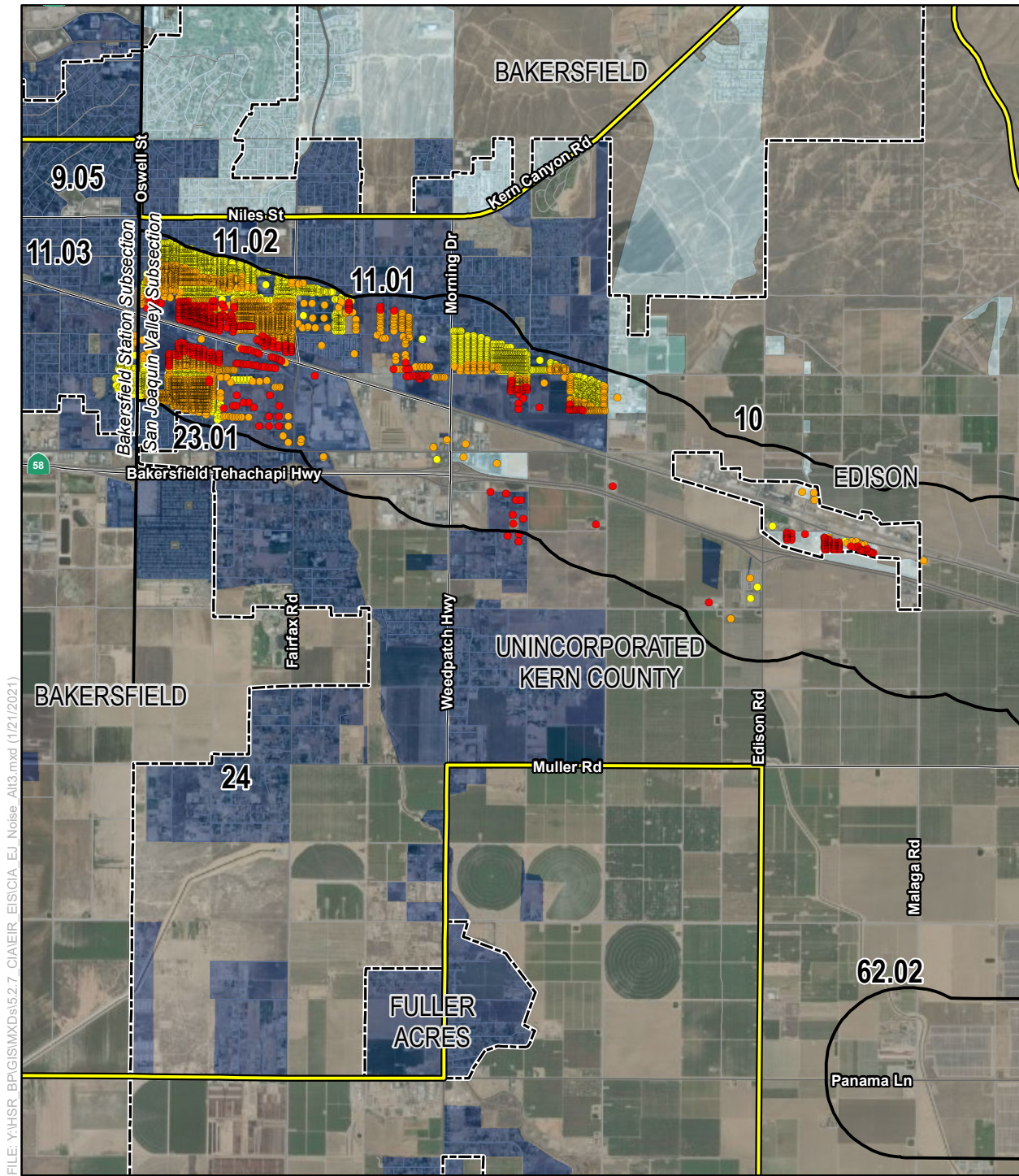
**Figure 5-A-8**

Operation-Phase  
Alternative 3

Noise Receptor Impacts  
Low-Income and/or Minority Populations  
in the Environmental Justice  
Resource Study Area

Map Index for Pages 11-11

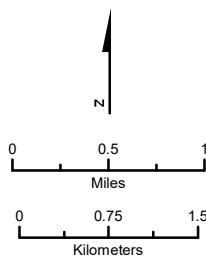




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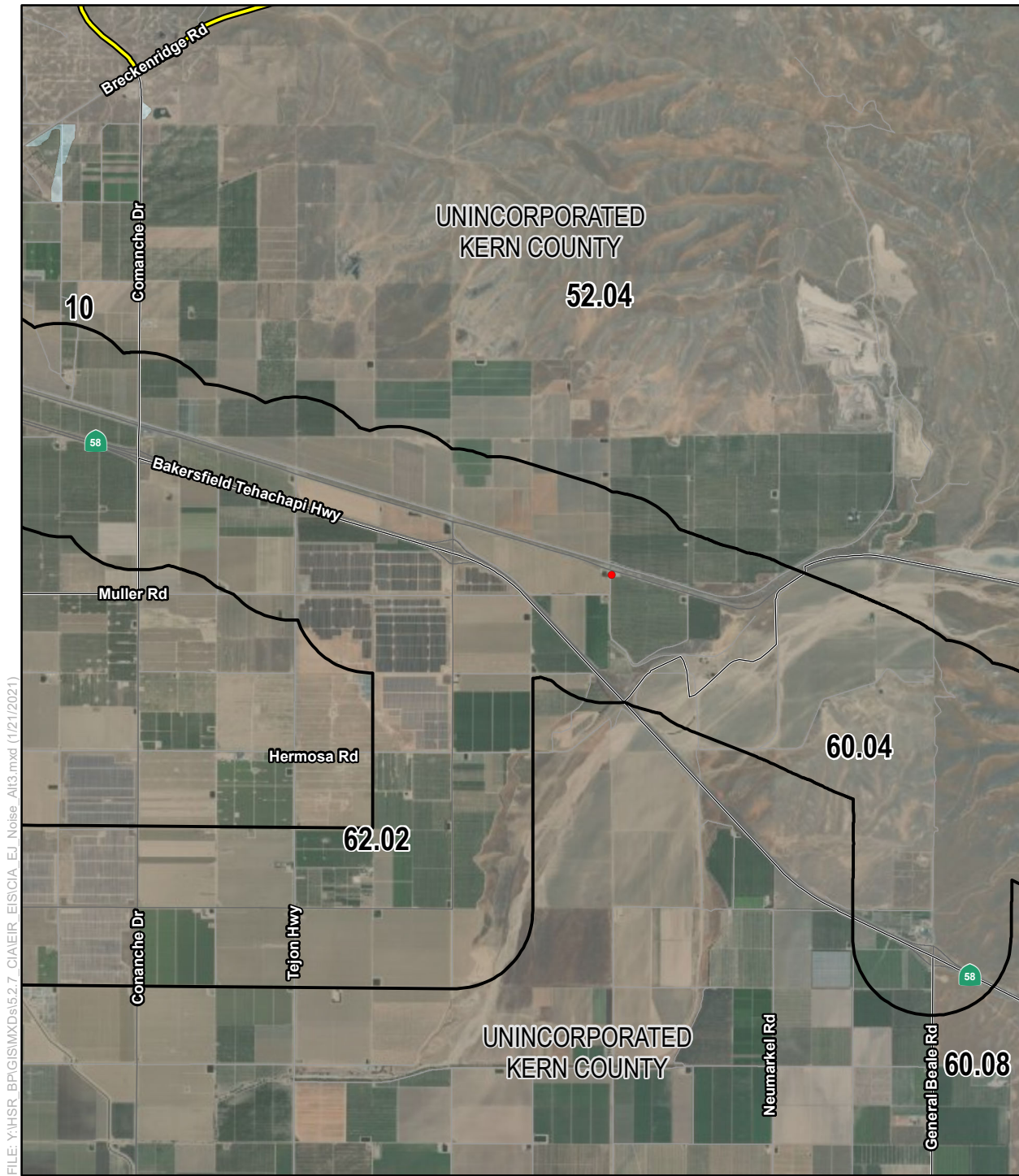
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| <p> Environmental Justice Resource Study Area (RSA)</p> <p> 0.5 mile Buffer of Project Footprint</p> <p> Census Tracts (with Tract Numbers) Intersecting the RSA</p> <p> City/Census Designated Place</p> <p>Low-Income and/or Minority Populations</p> <p> Substantial</p> <p> Less Than Substantial</p> <p> Low Population Density</p> | <p><b>B-P Noise Receptor Impacts</b></p> <p> Severe</p> <p> Moderate</p> <p> None</p> <p>Alternatives Under Consideration</p> <p>Alternative 3</p> <p> Elevated</p> <p> Surface</p> <p> Underground</p> |
|--|---|



**Figure 5-A-8**

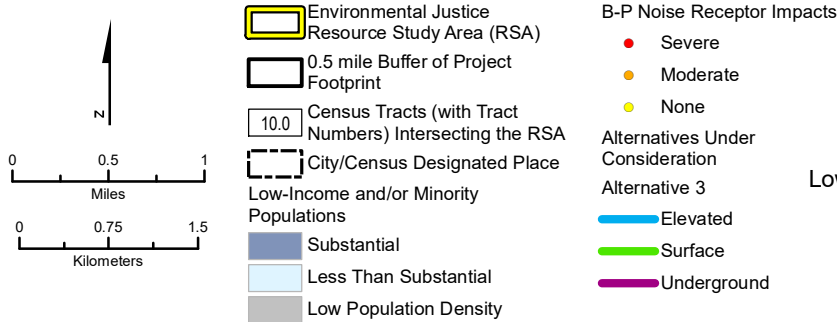
Operation-Phase Alternative 3  
Noise Receptor Impacts  
Low-Income and/or Minority Populations  
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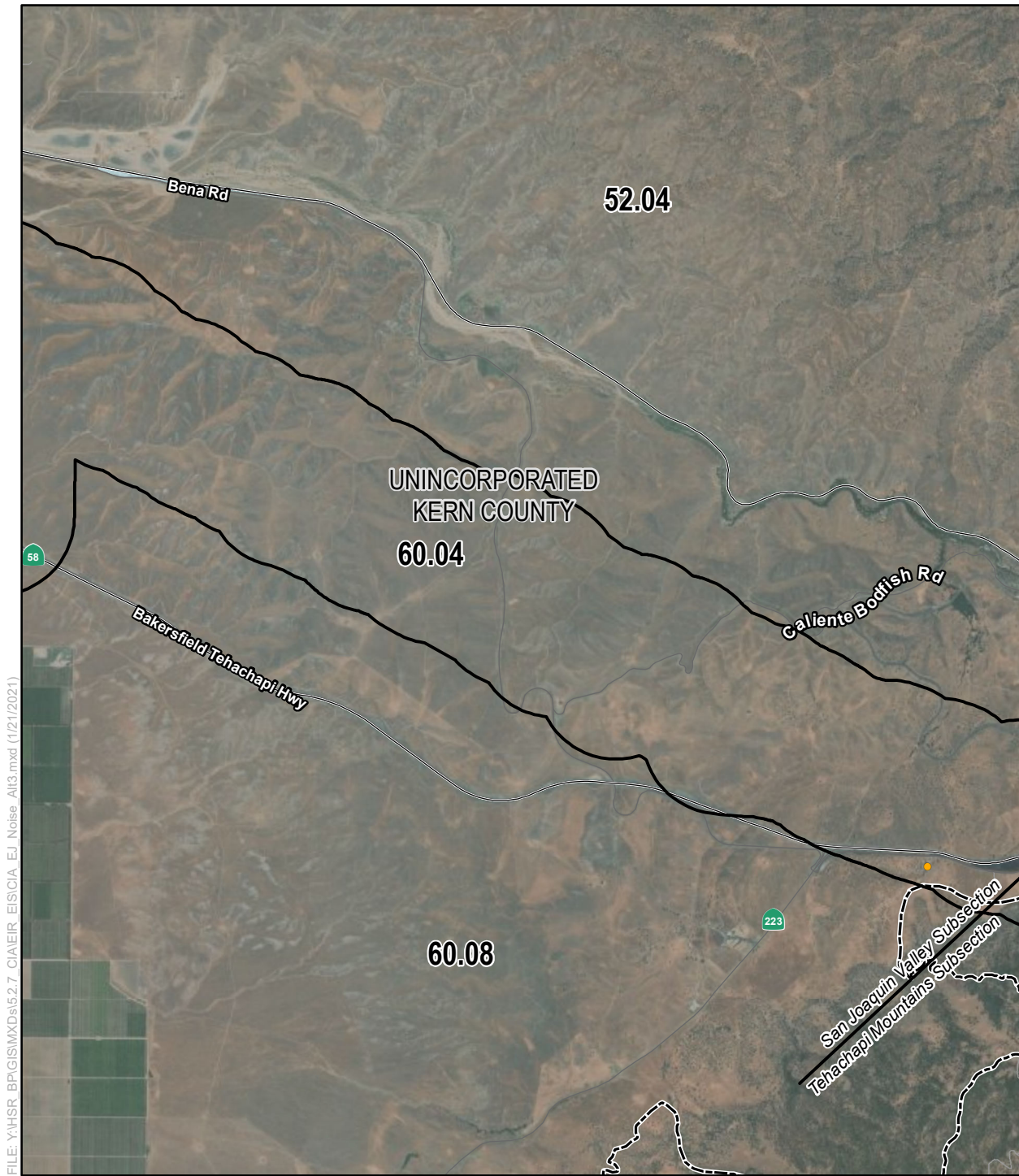
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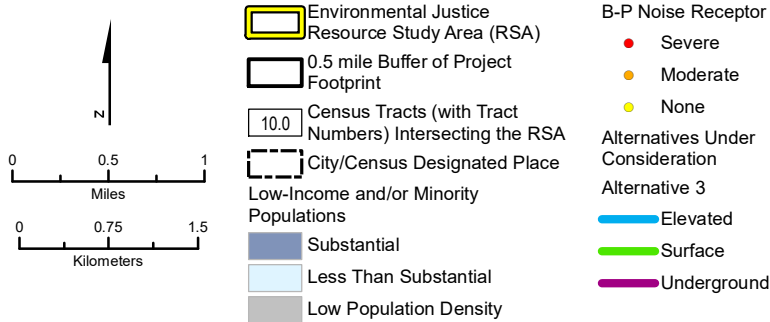
**Figure 5-A-8**  
 Operation-Phase Alternative 3  
 Noise Receptor Impacts  
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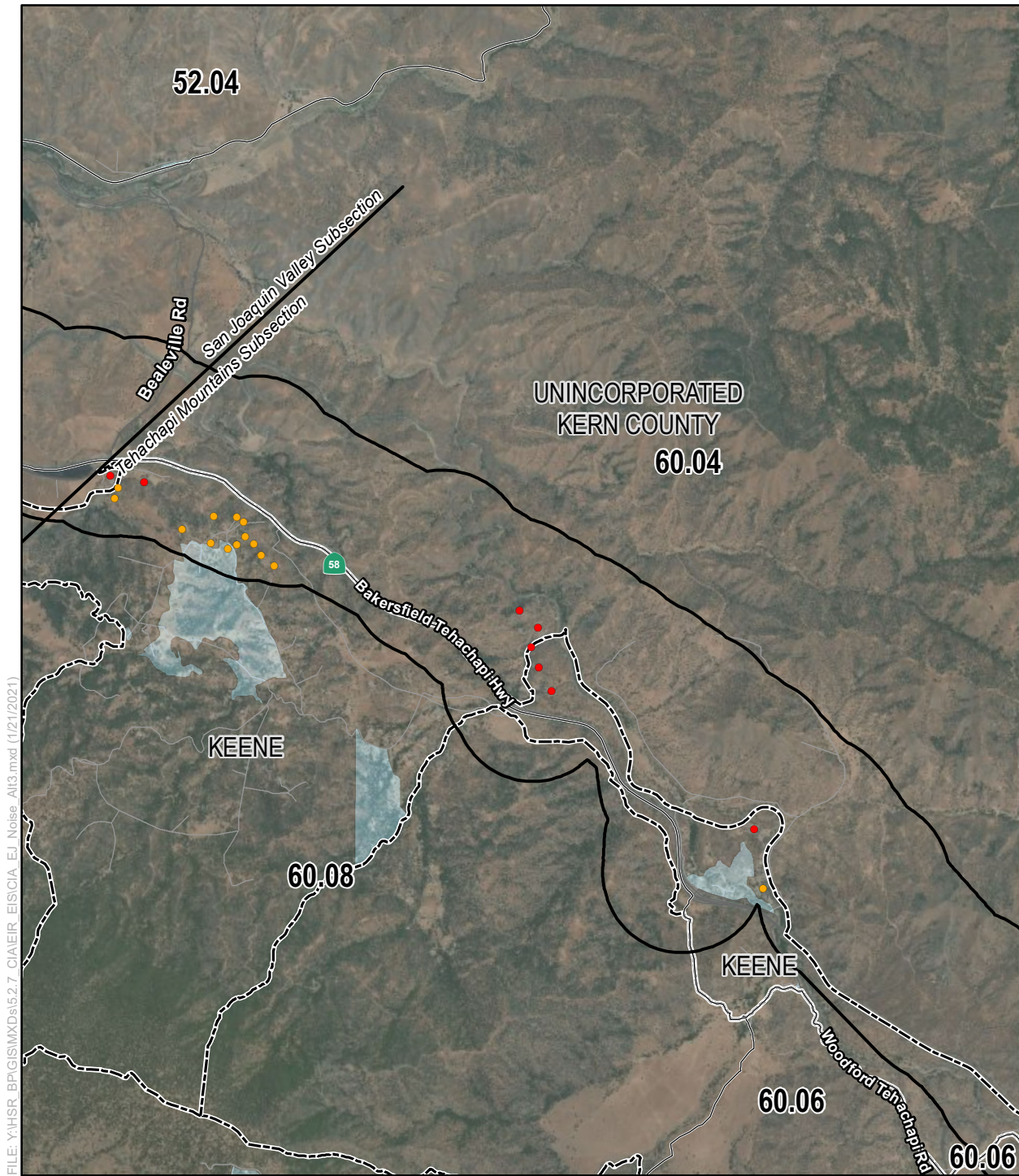
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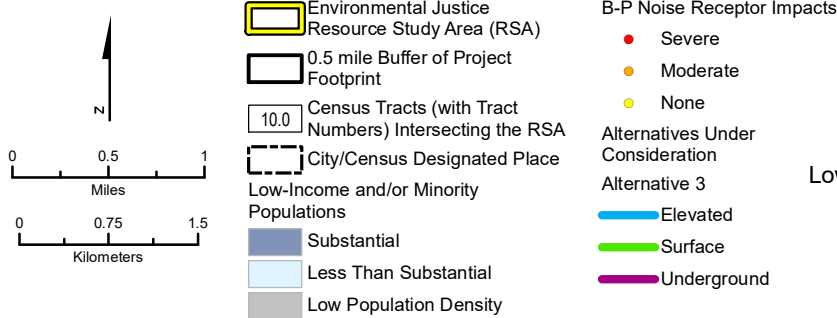
**Figure 5-A-8**  
 Operation-Phase Alternative 3  
 Noise Receptor Impacts  
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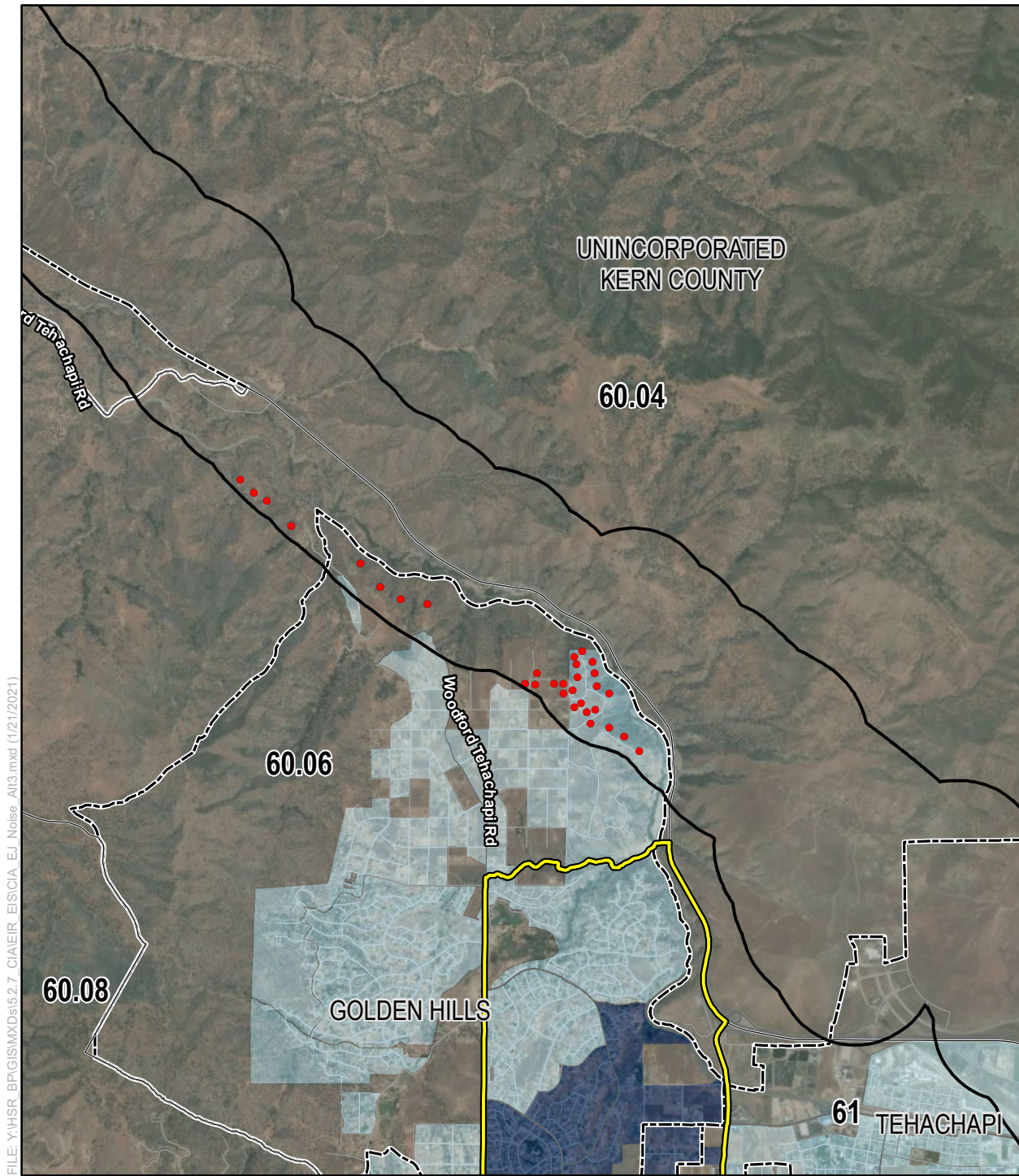
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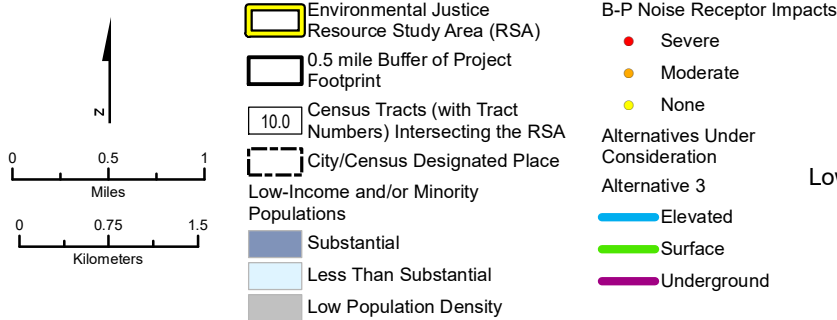
**Figure 5-A-8**  
 Operation-Phase Alternative 3  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
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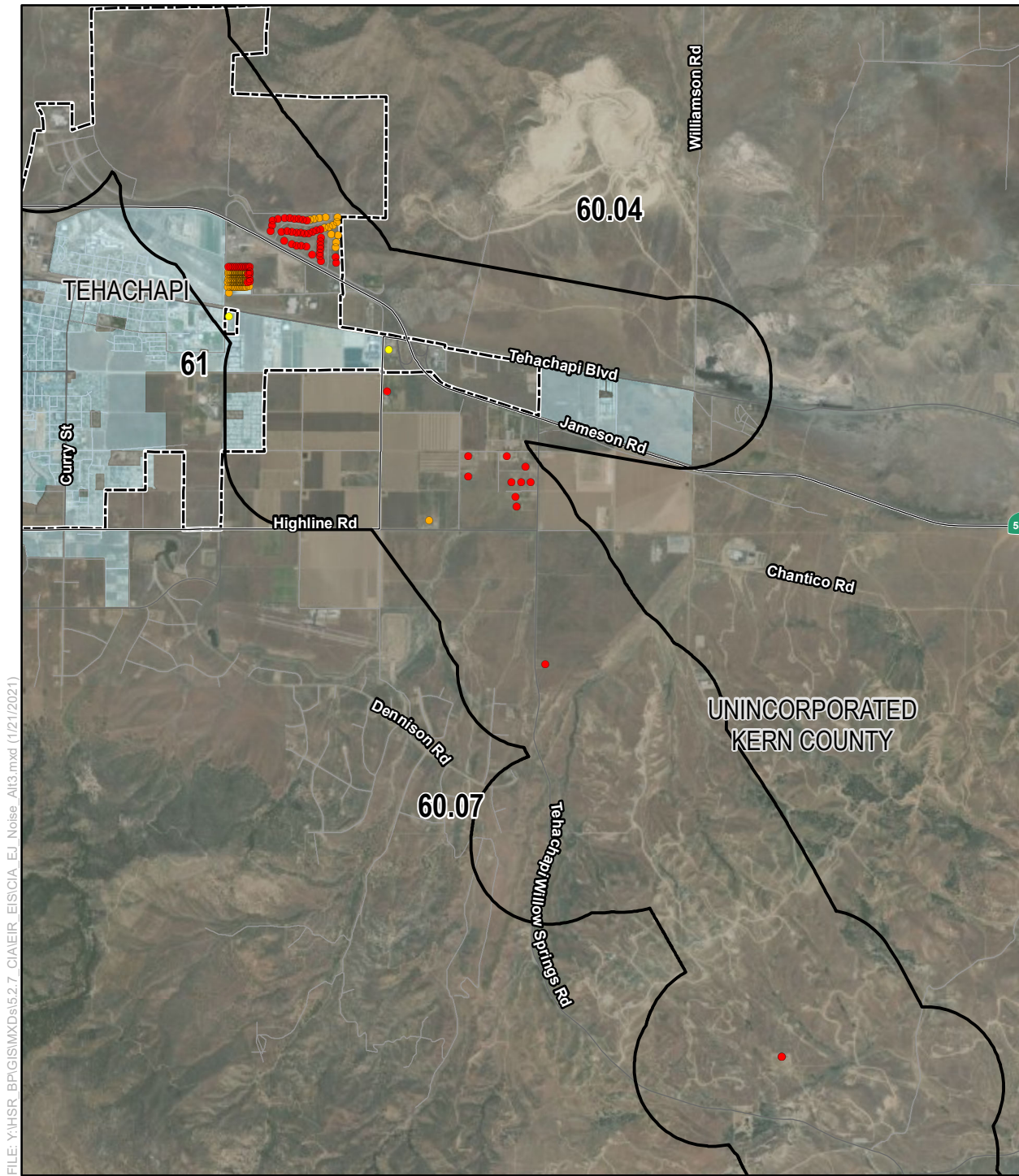
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**Figure 5-A-8**

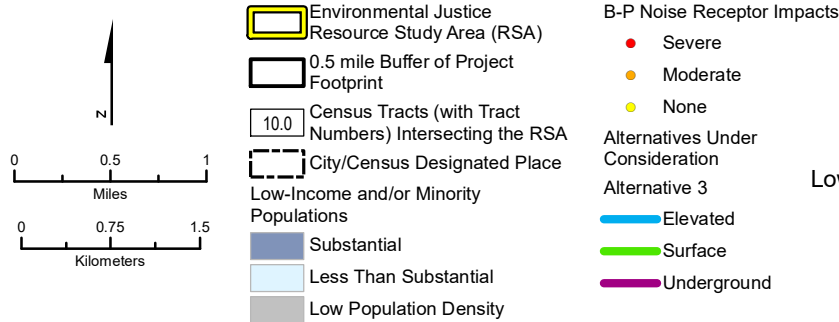
Operation-Phase Alternative 3  
 Noise Receptor Impacts  
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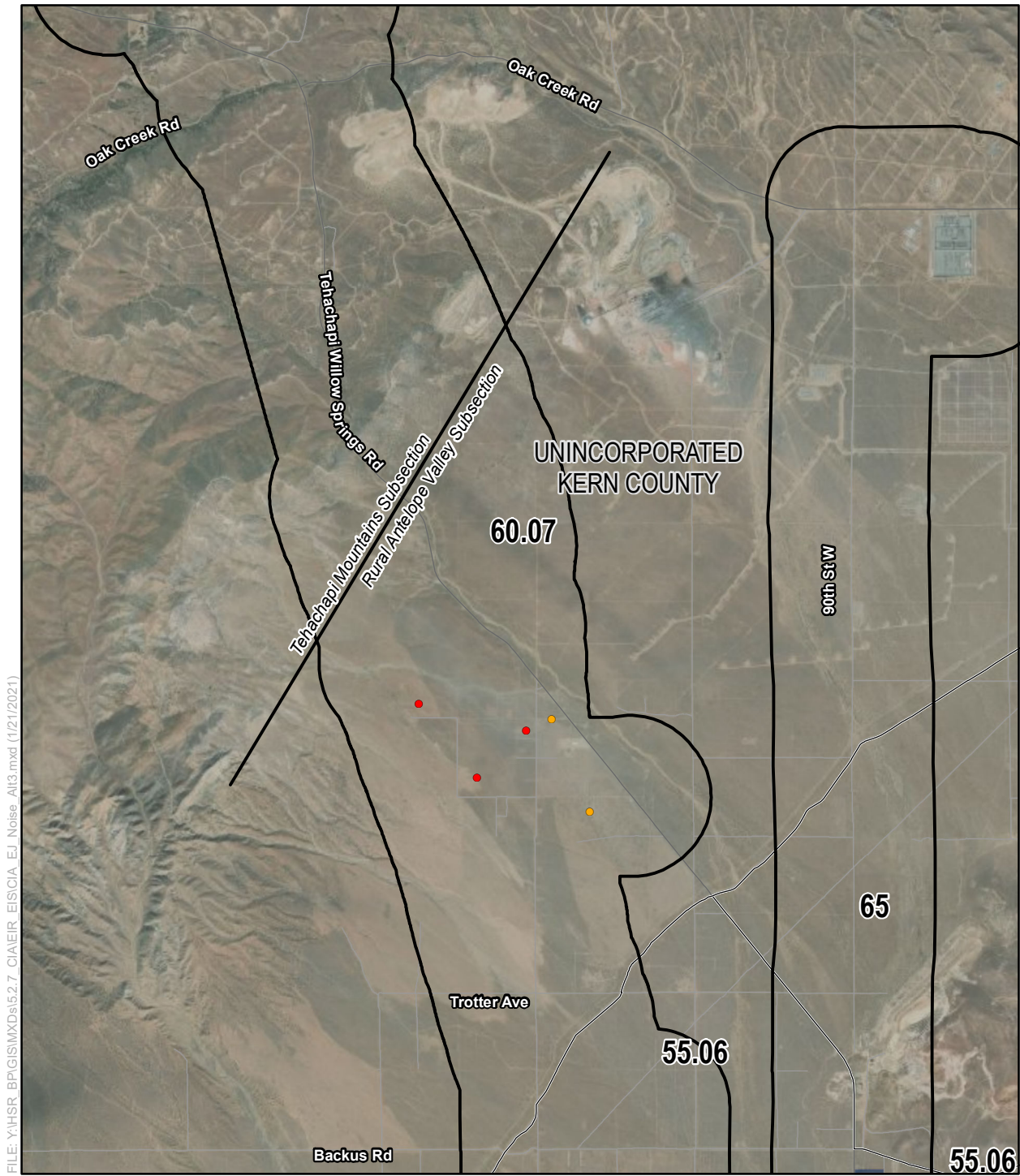
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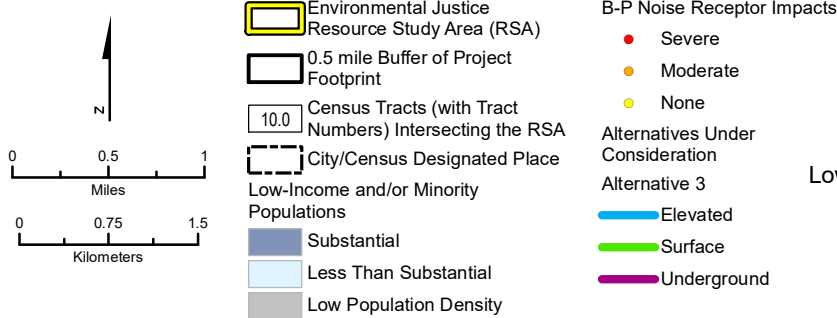
**Figure 5-A-8**  
 Operation-Phase Alternative 3  
 Noise Receptor Impacts  
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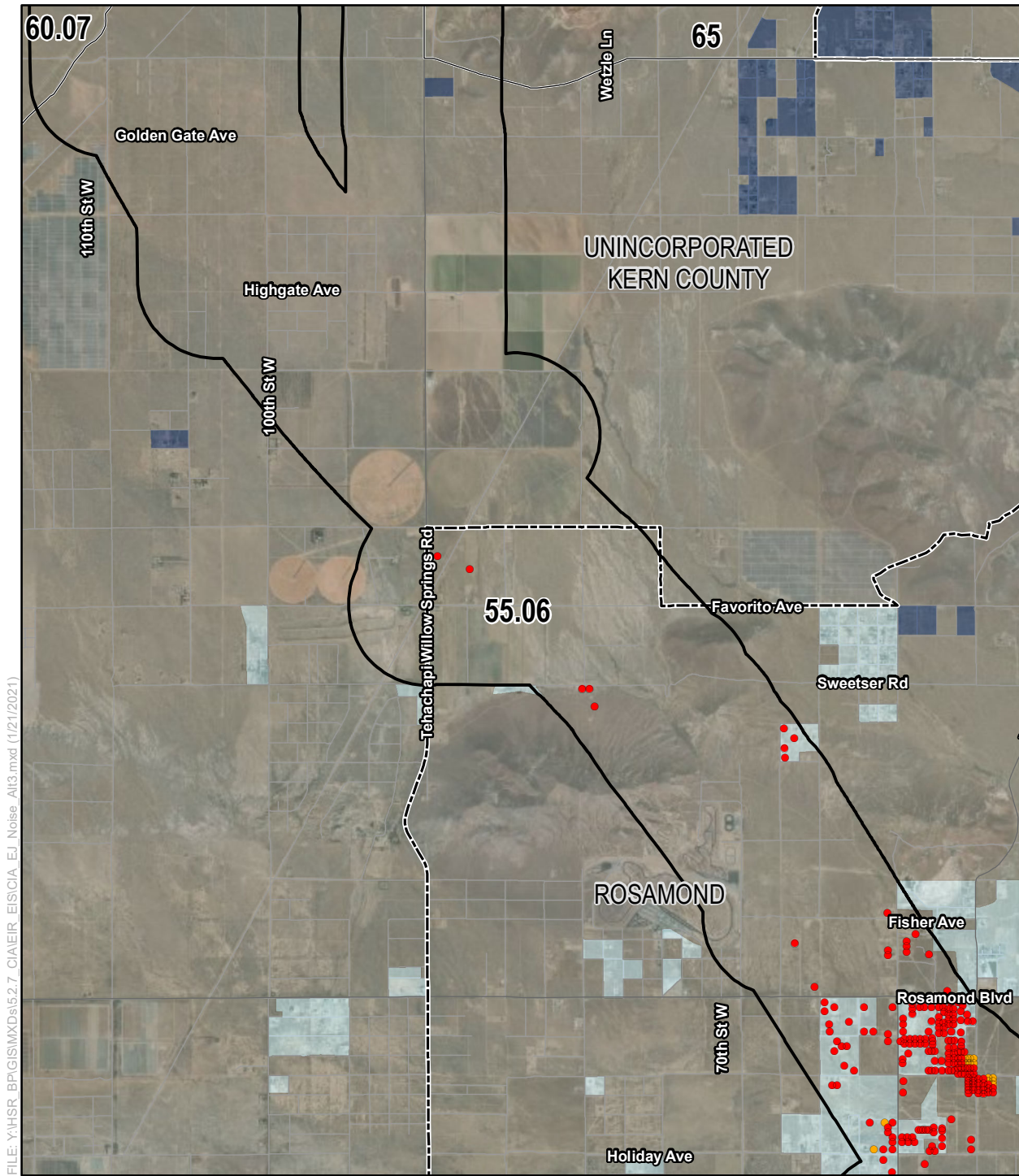
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**Figure 5-A-8**

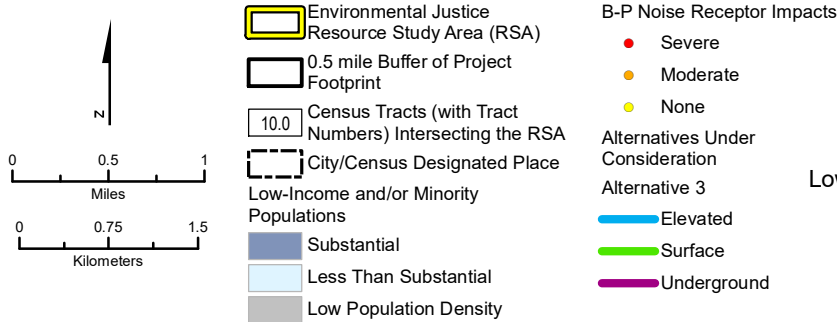
Operation-Phase Alternative 3  
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 Low-Income and/or Minority Populations  
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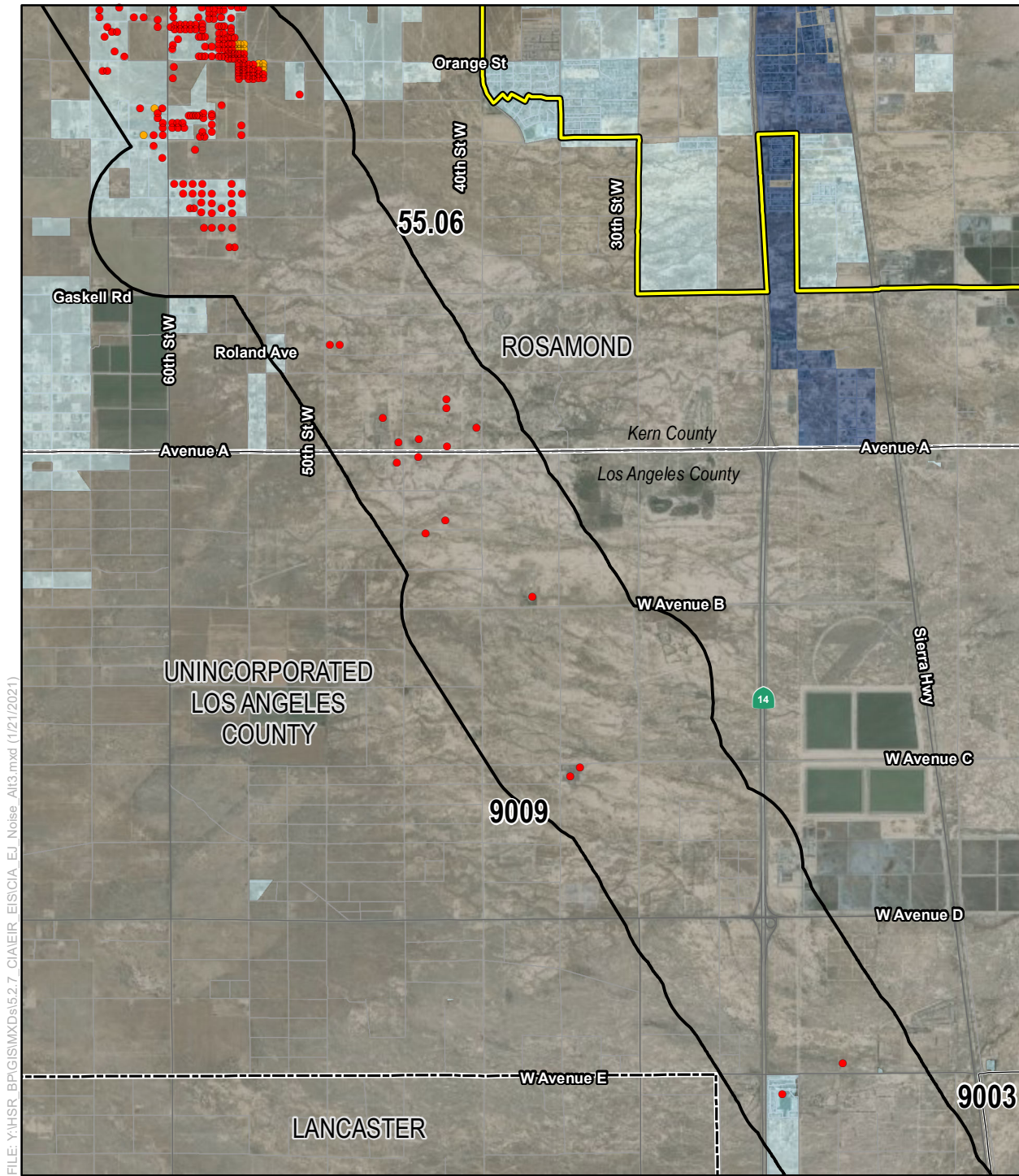
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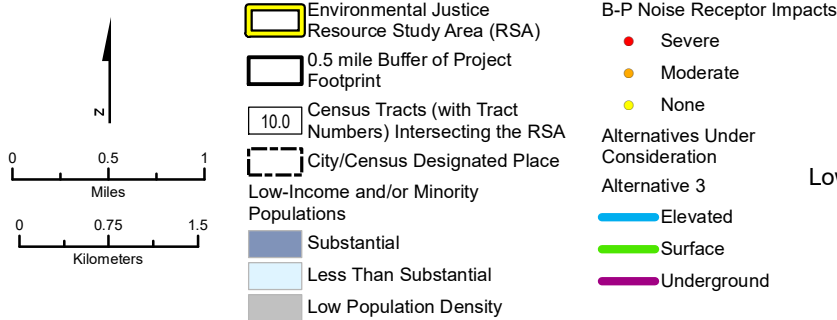
**Figure 5-A-8**  
 Operation-Phase Alternative 3  
 Noise Receptor Impacts  
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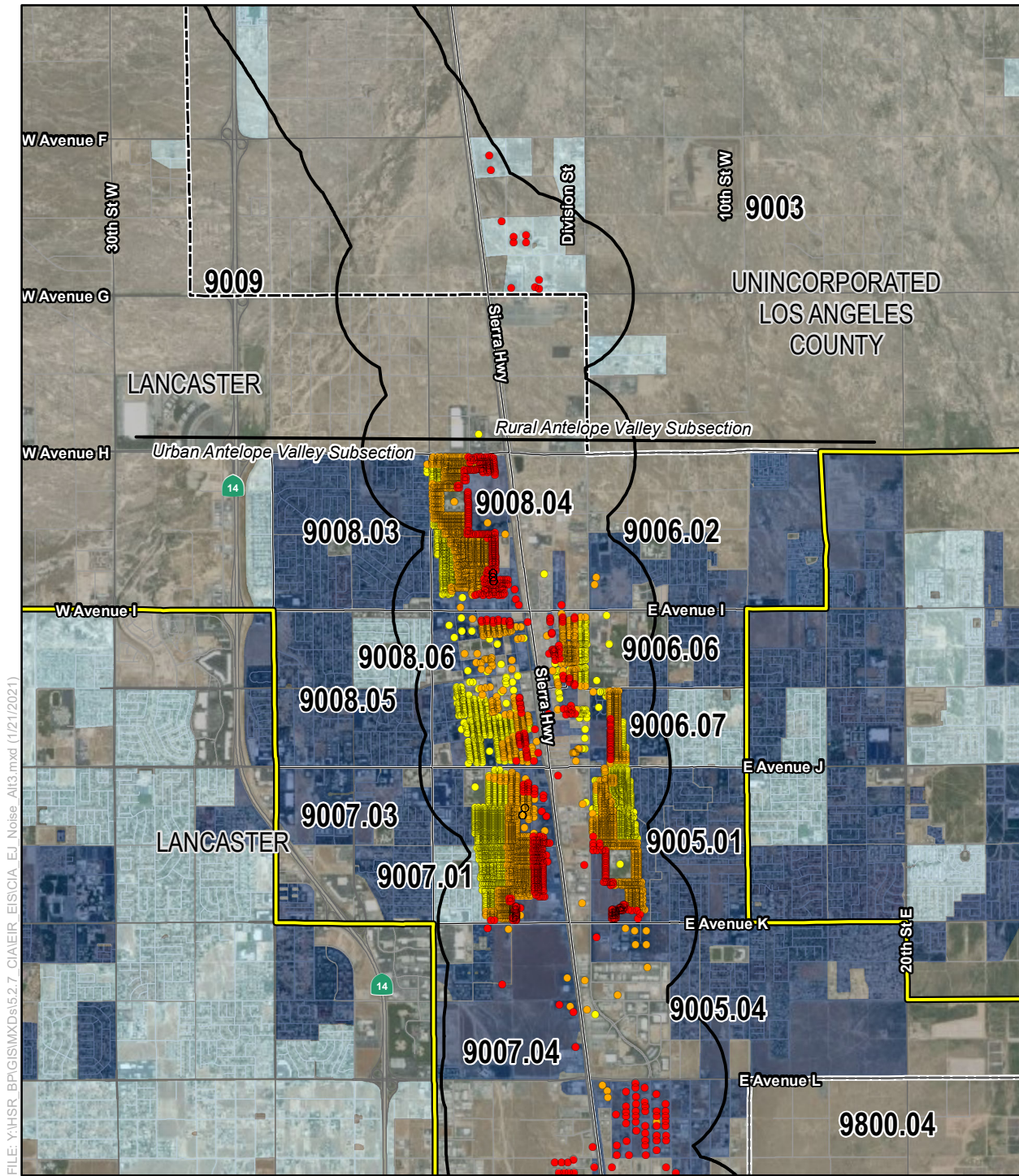
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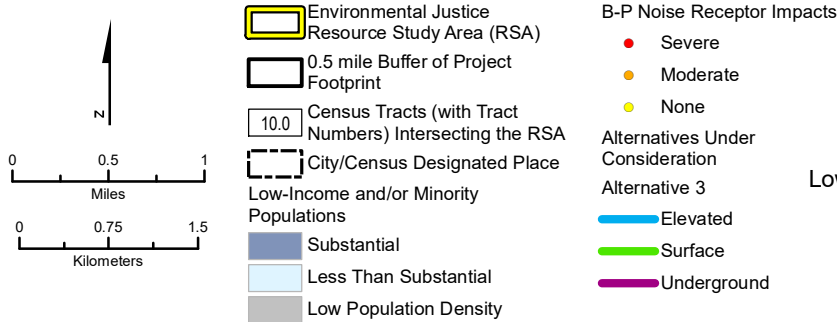
**Figure 5-A-8**  
 Operation-Phase Alternative 3  
 Noise Receptor Impacts  
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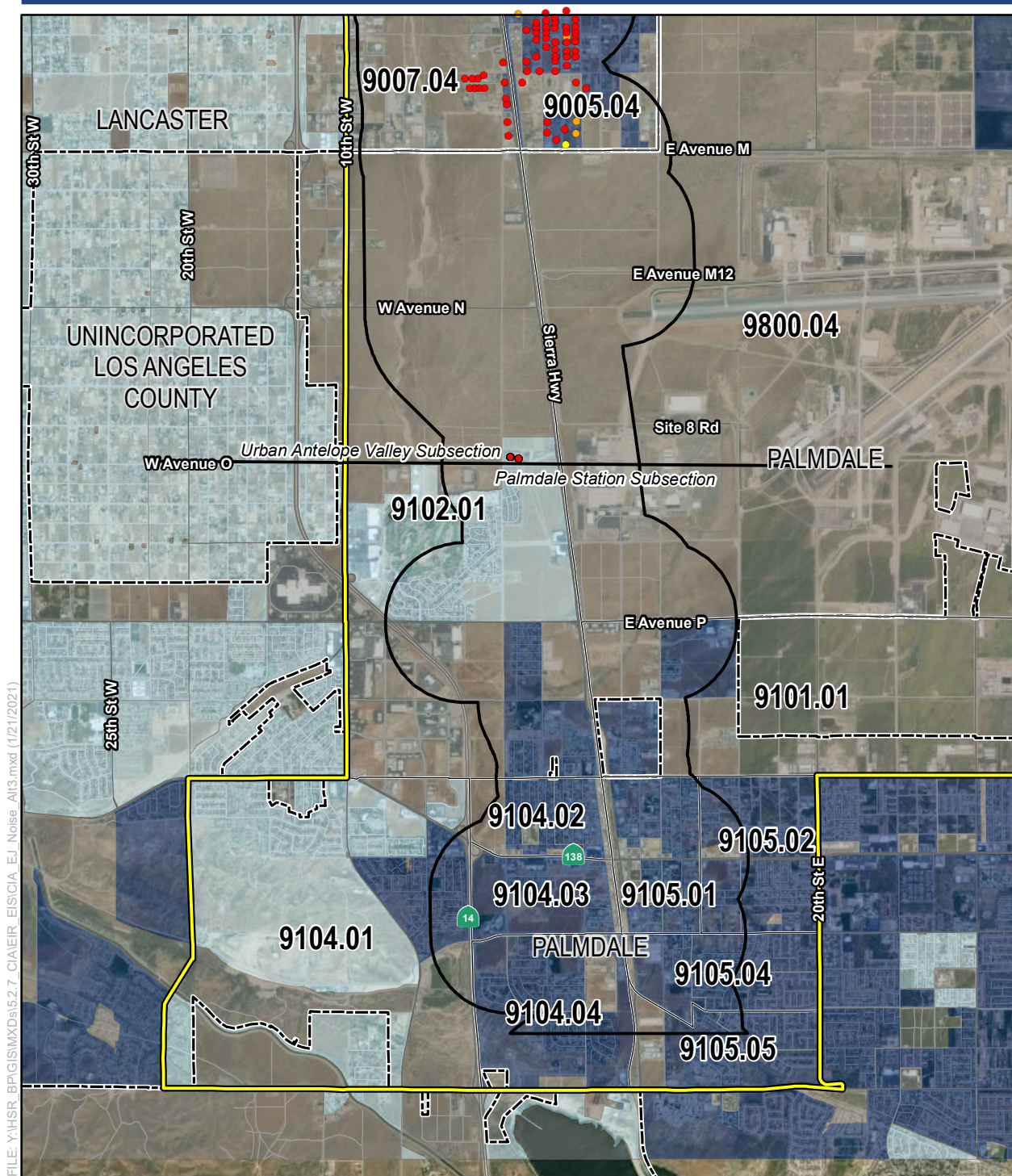
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**Figure 5-A-8**

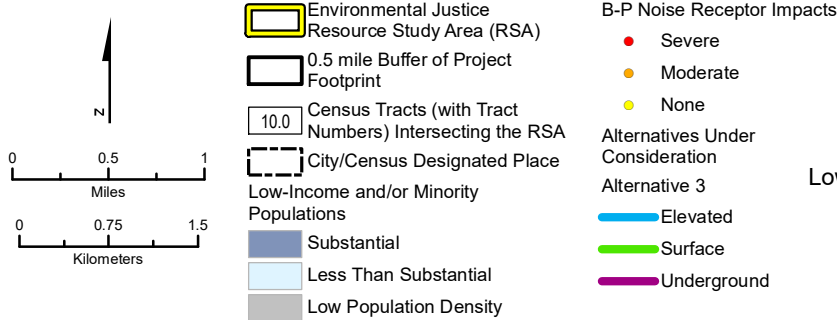
Operation-Phase Alternative 3  
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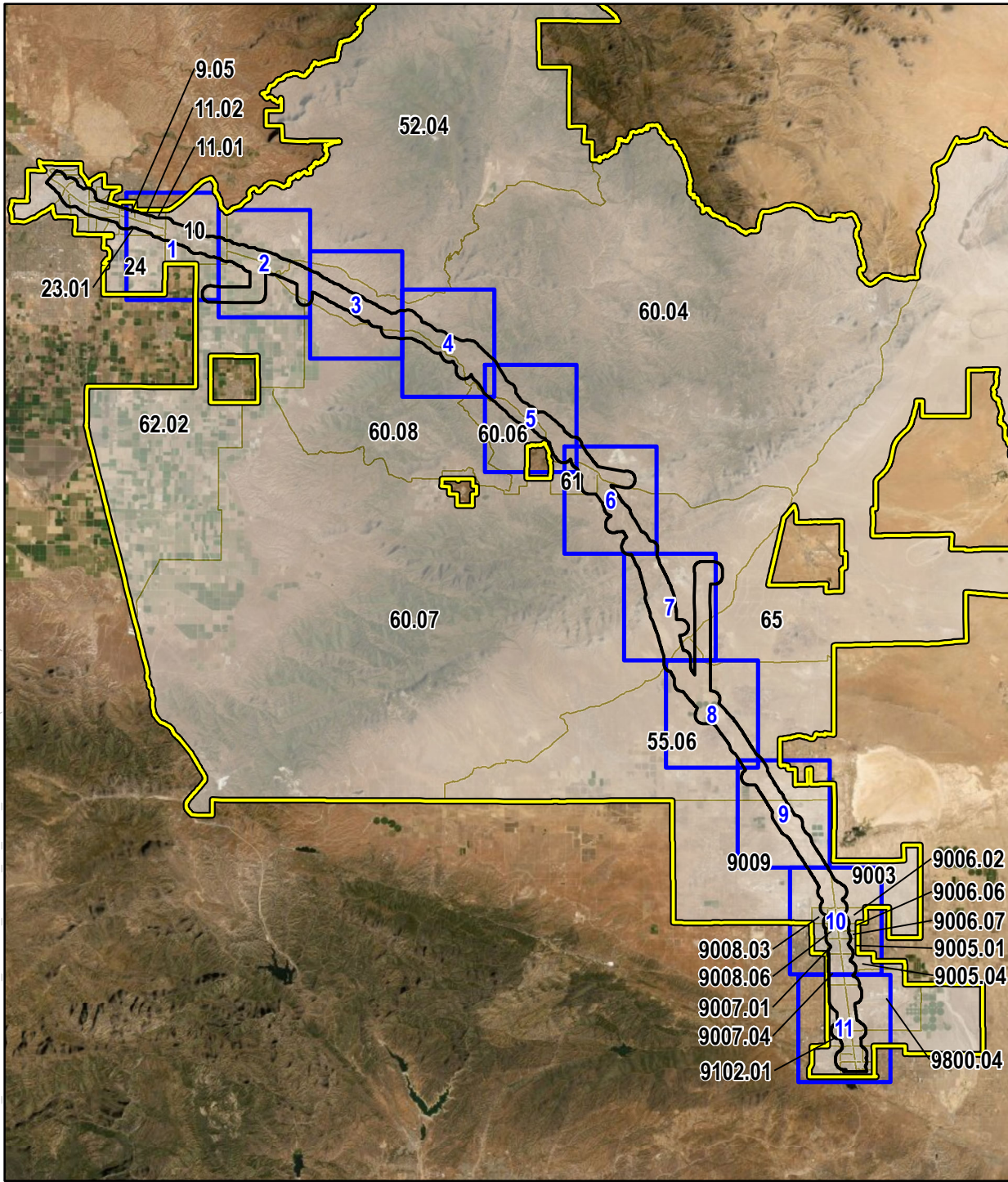


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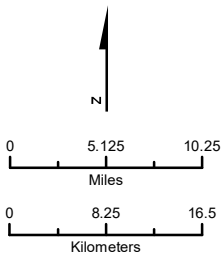
Operation-Phase Alternative 3  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
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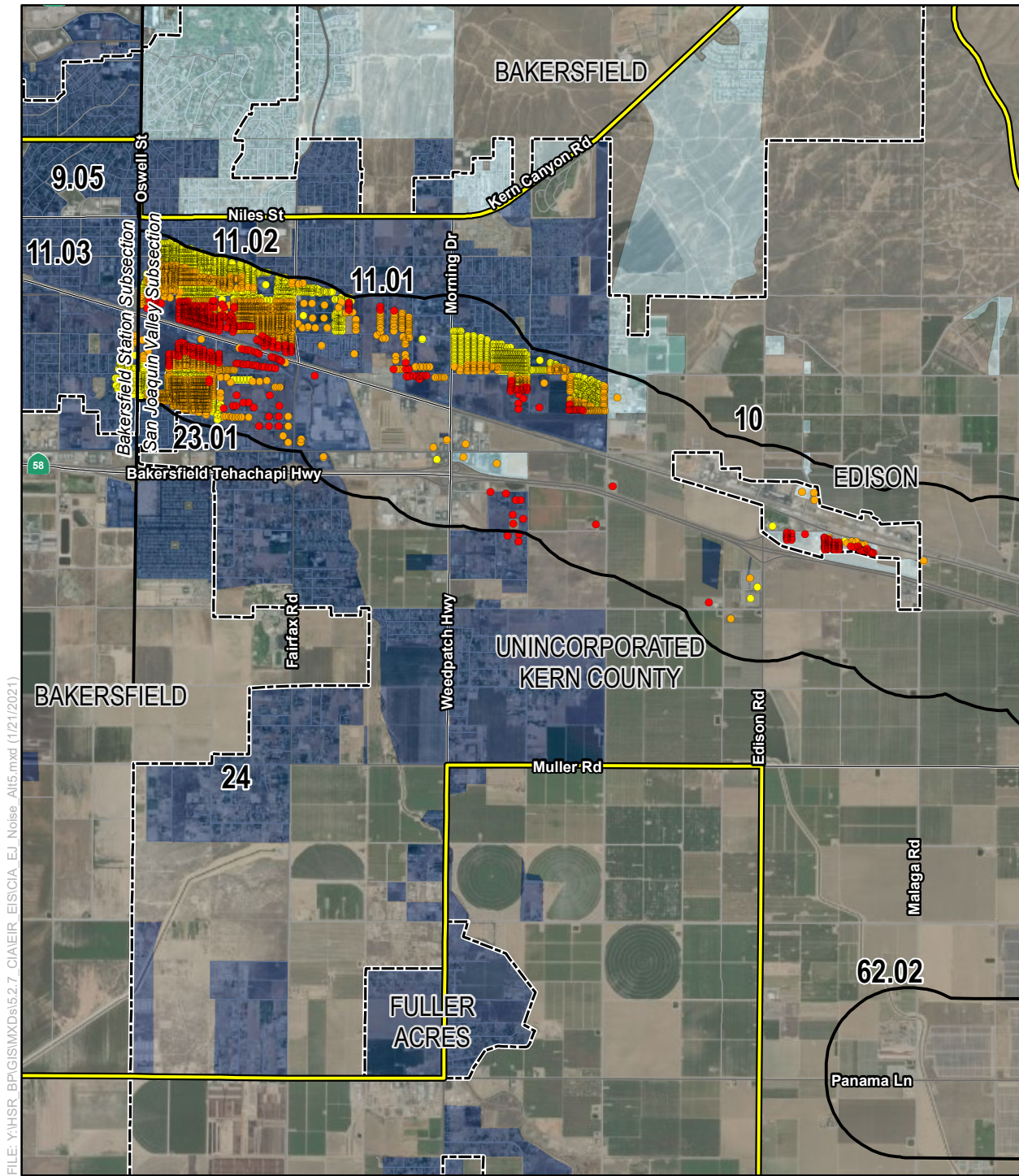
SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



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

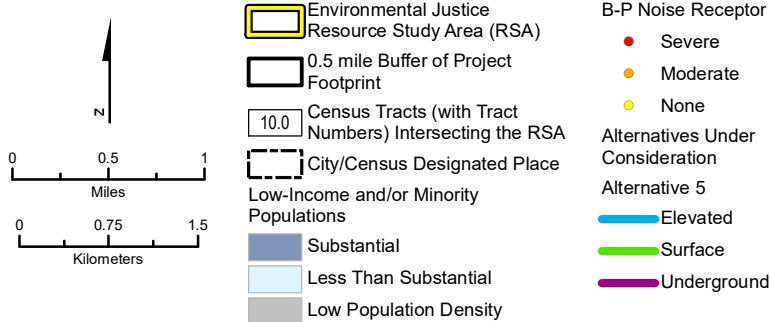
**Figure 5-A-9**  
 Operation-Phase  
 Alternative 5  
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 Low-Income and/or Minority Populations  
 in the Environmental Justice  
 Resource Study Area  
 Map Index for Pages 1-11





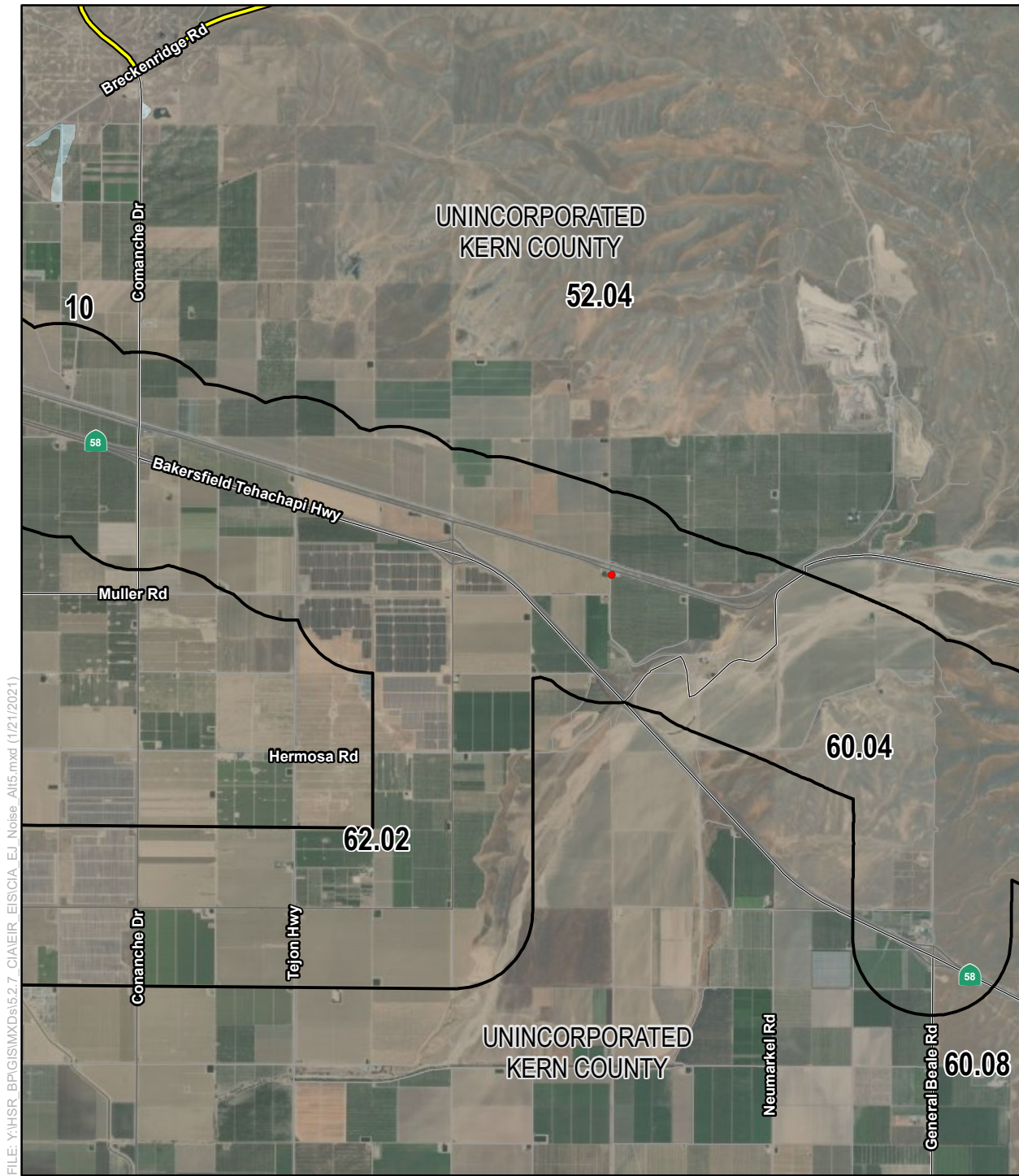
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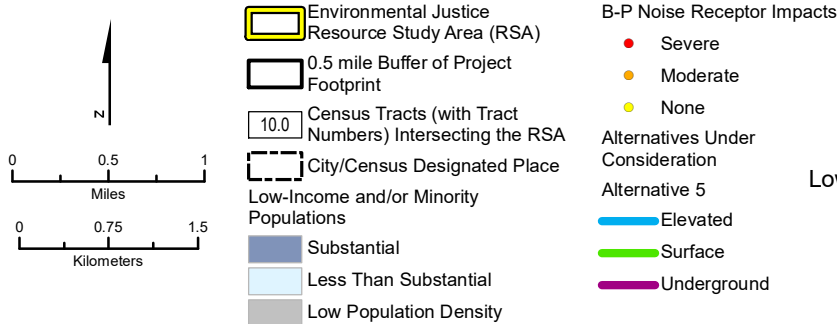
**Figure 5-A-9**  
 Operation-Phase Alternative 5  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
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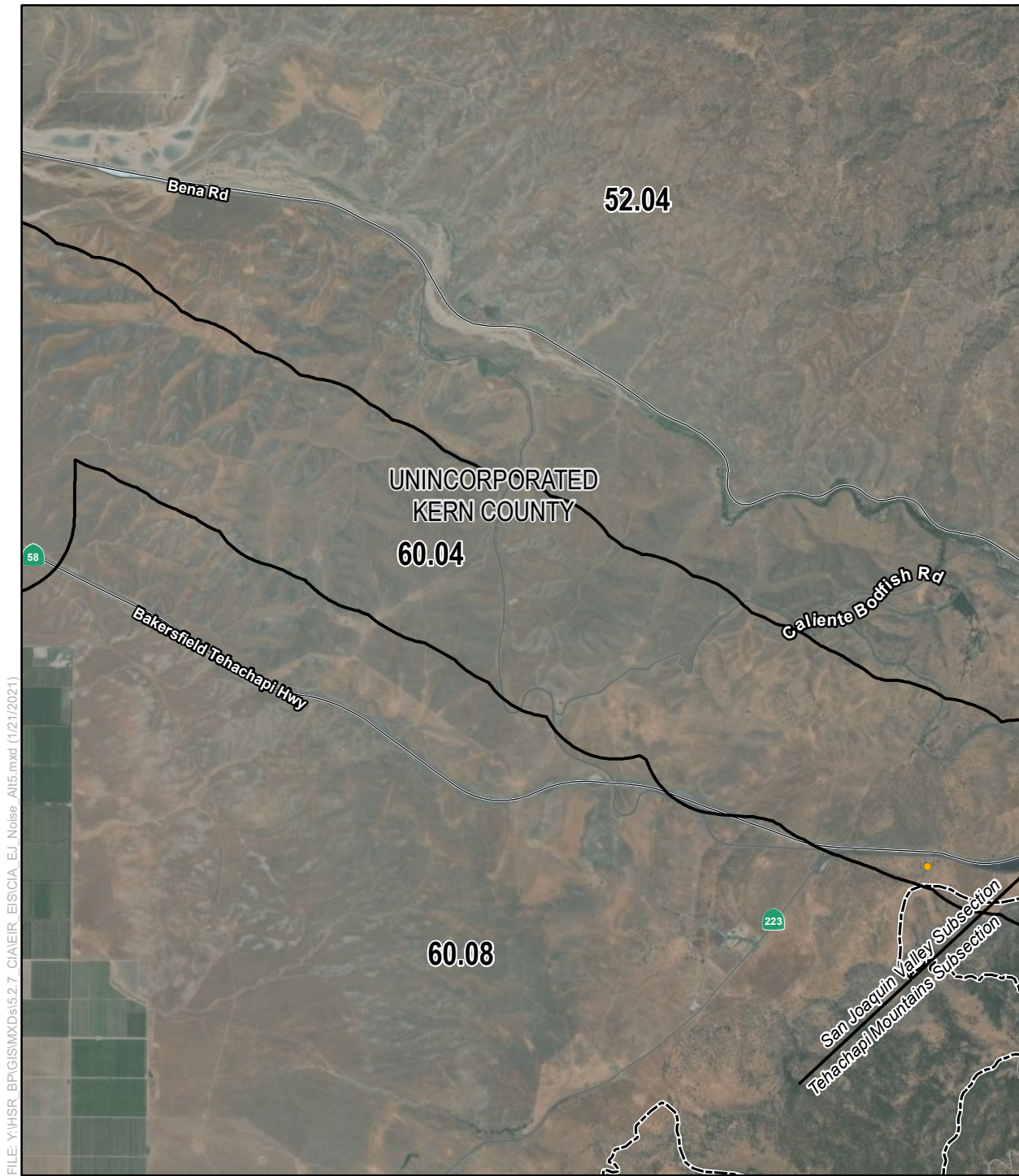
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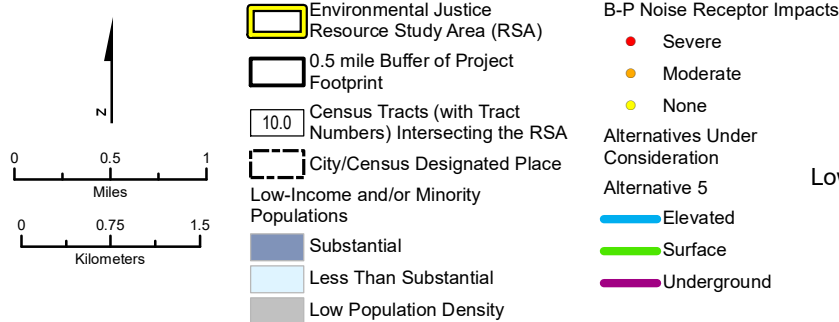
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 Operation-Phase Alternative 5  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
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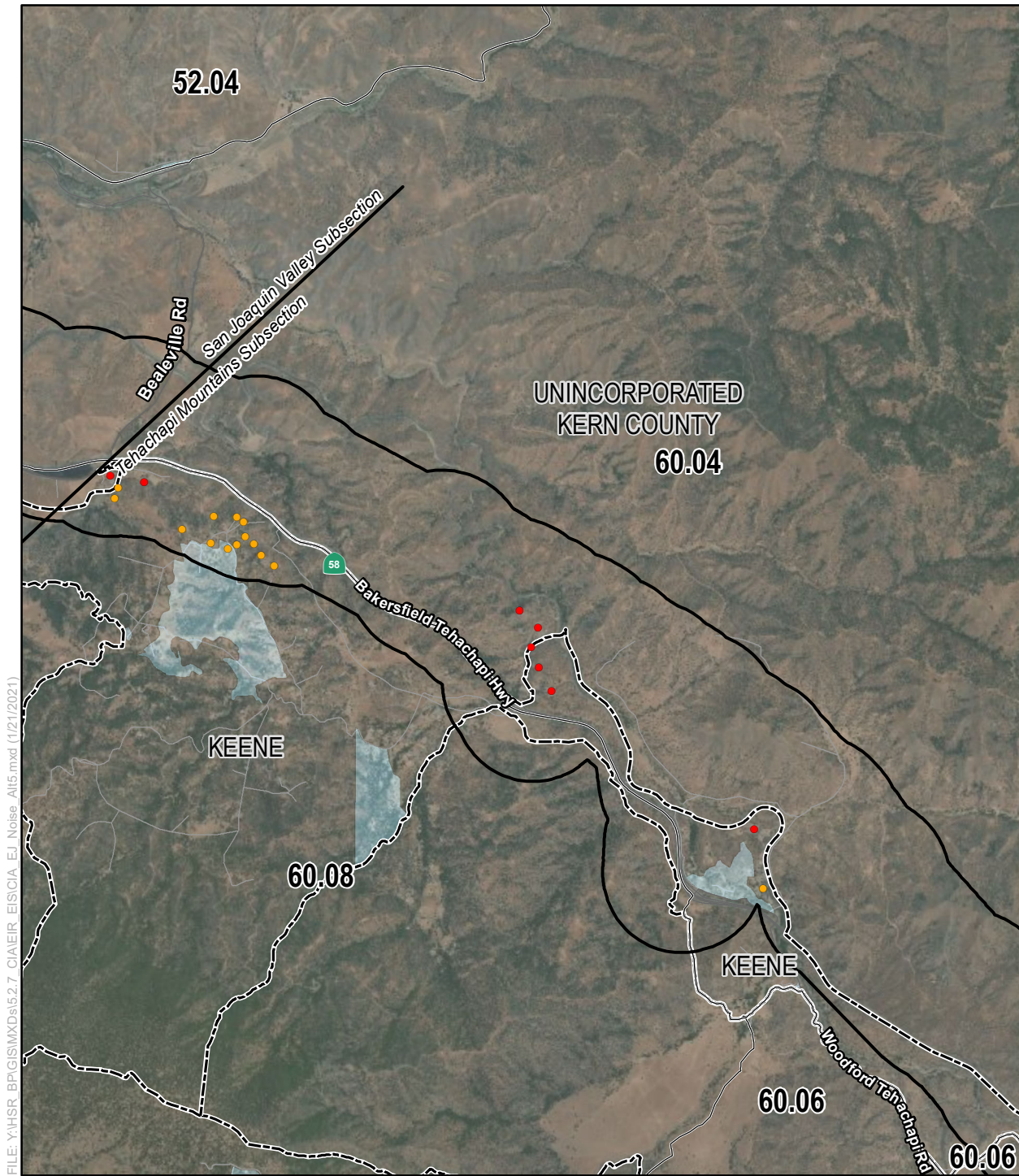
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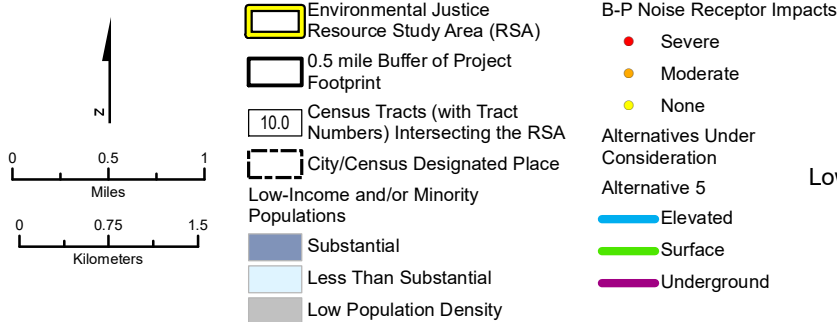
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 Operation-Phase Alternative 5  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
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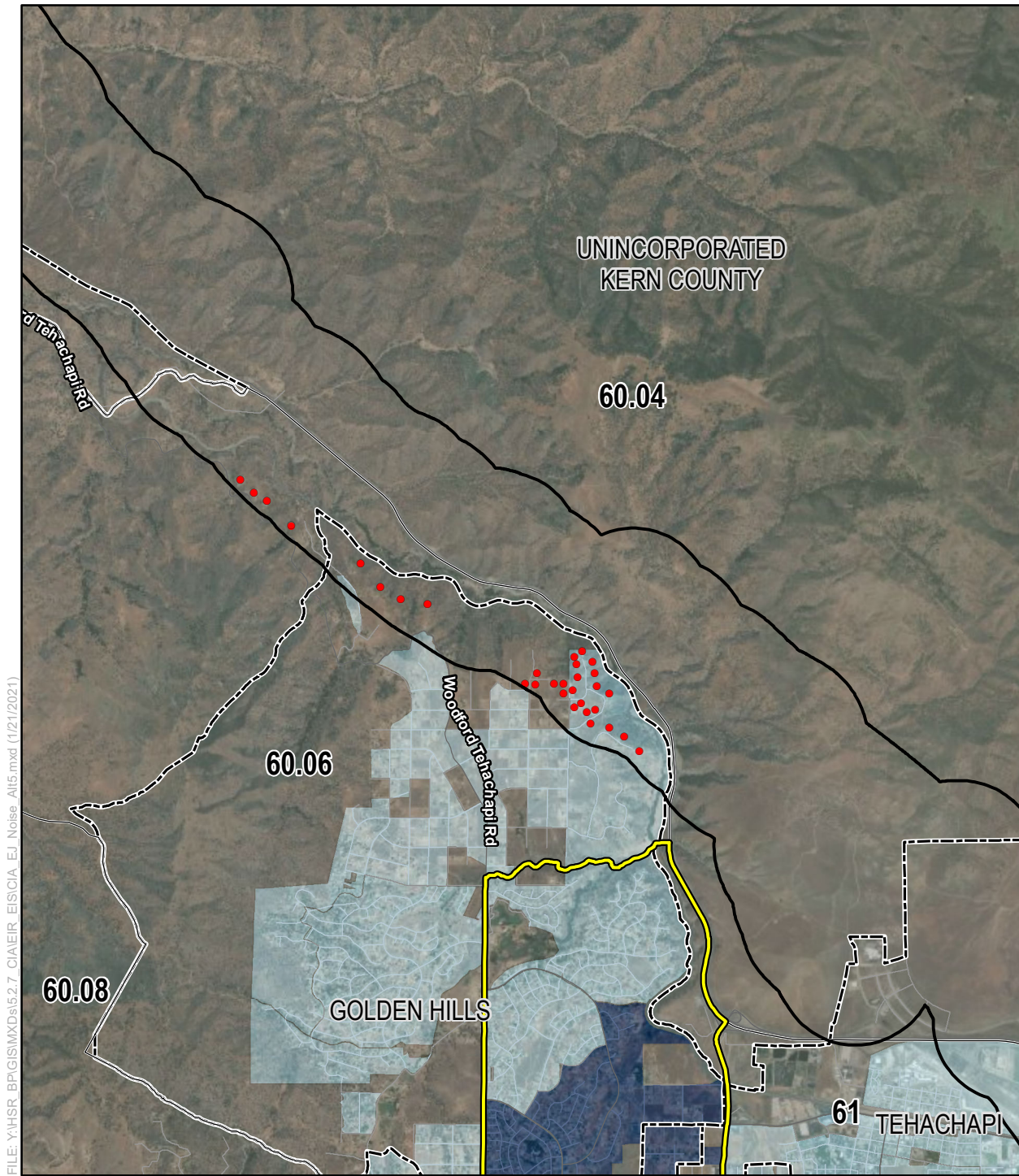
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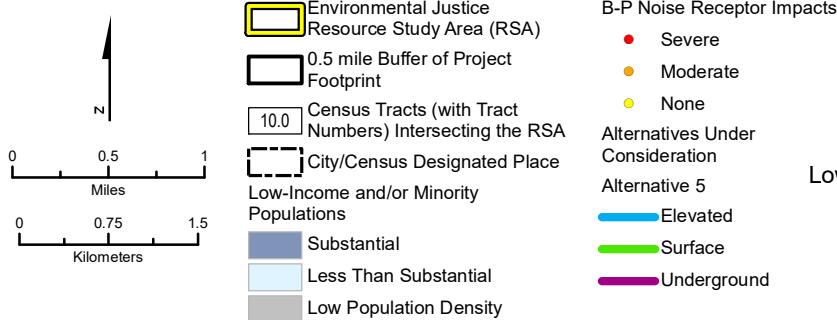
**Figure 5-A-9**  
 Operation-Phase Alternative 5  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
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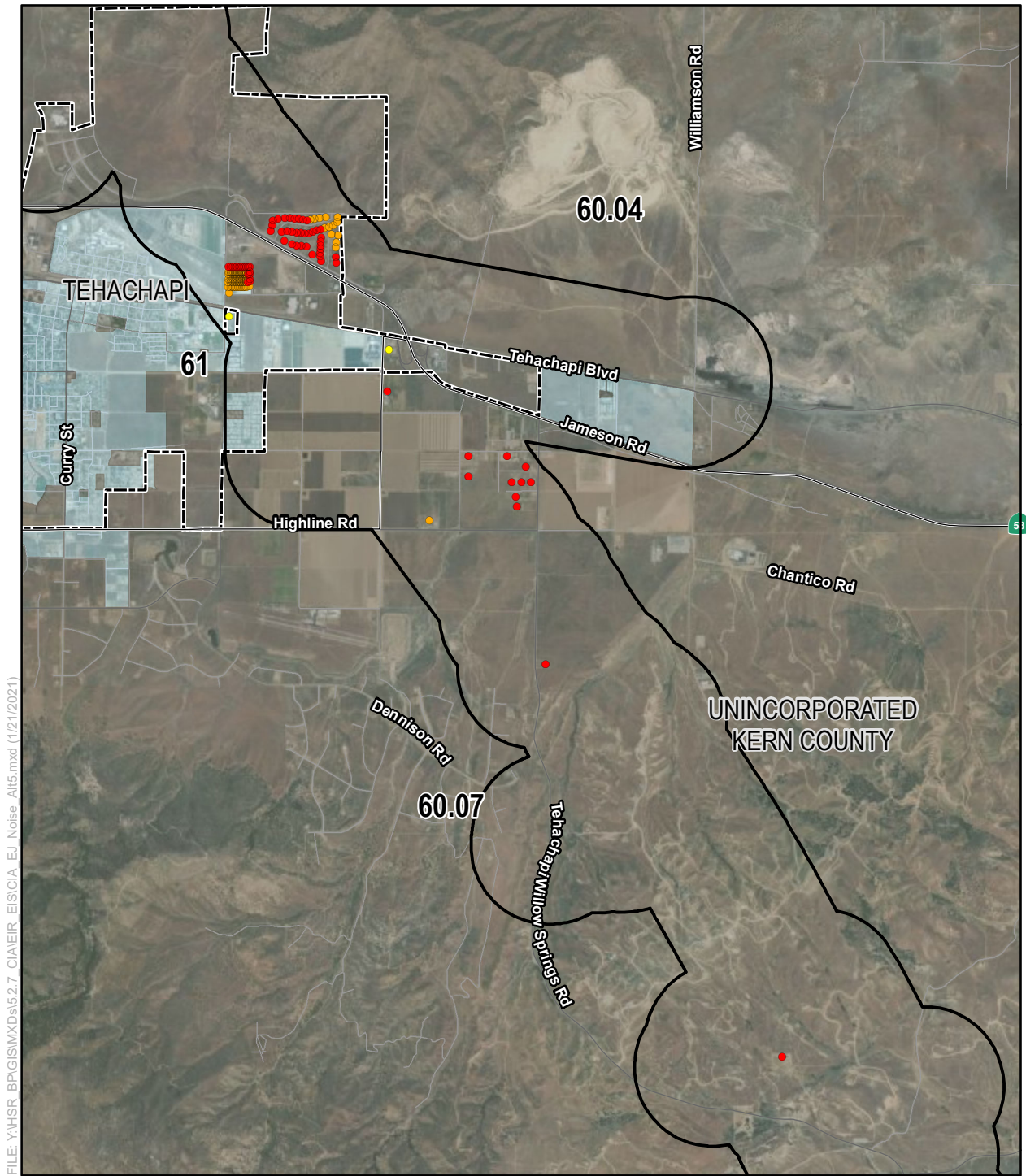
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**Figure 5-A-9**

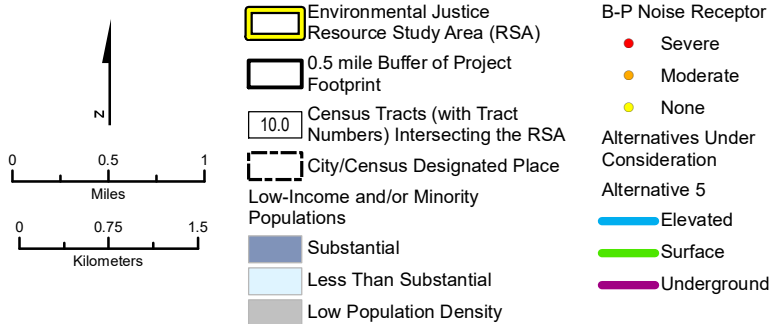
Operation-Phase Alternative 5  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
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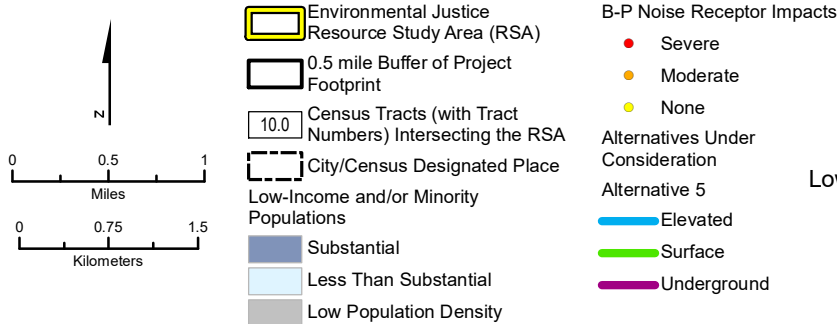
**Figure 5-A-9**  
 Operation-Phase Alternative 5  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
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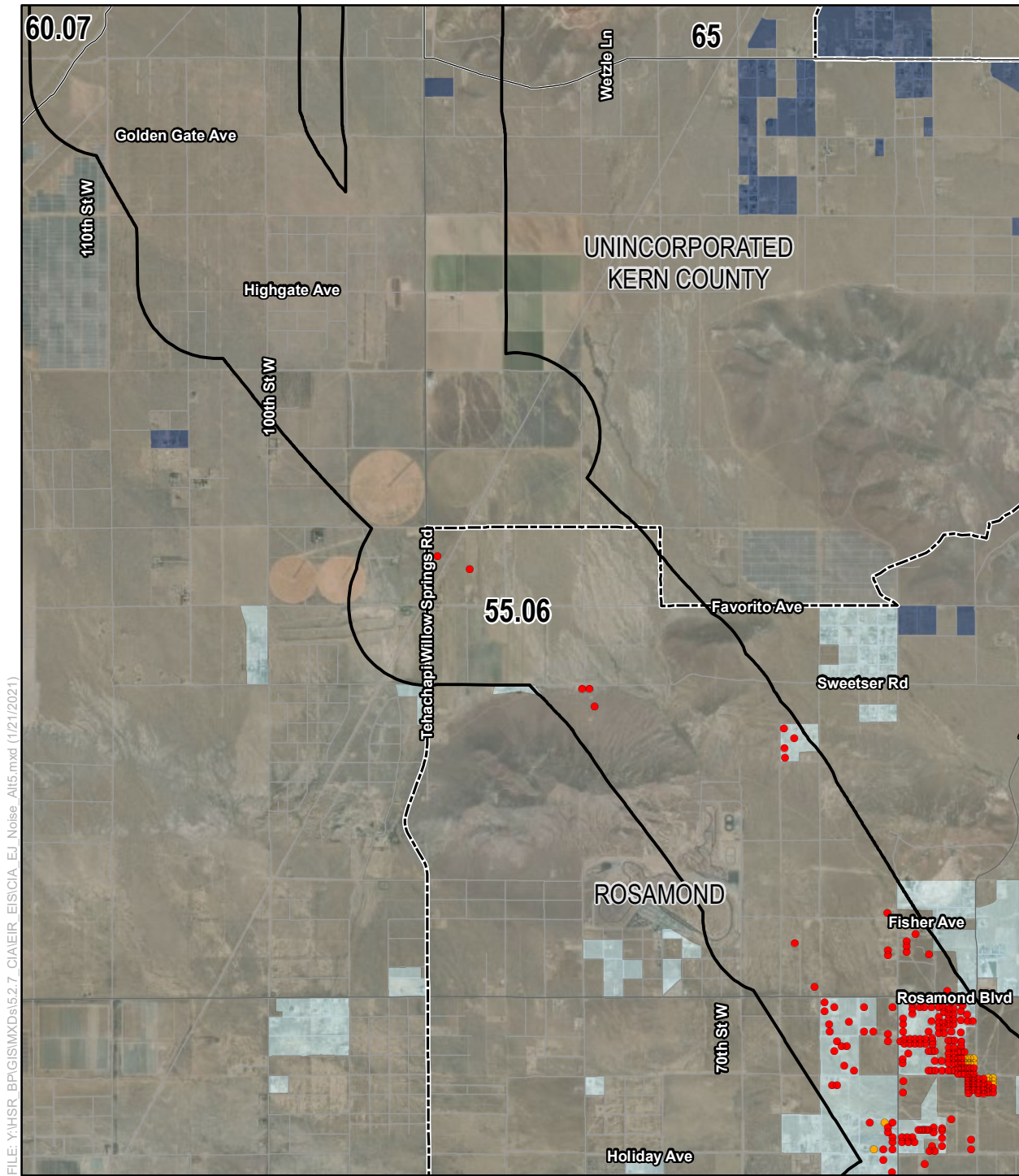
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**Figure 5-A-9**

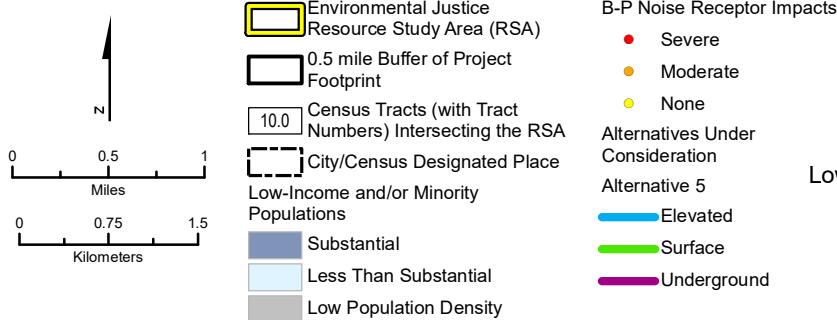
Operation-Phase Alternative 5  
Noise Receptor Impacts  
Low-Income and/or Minority Populations  
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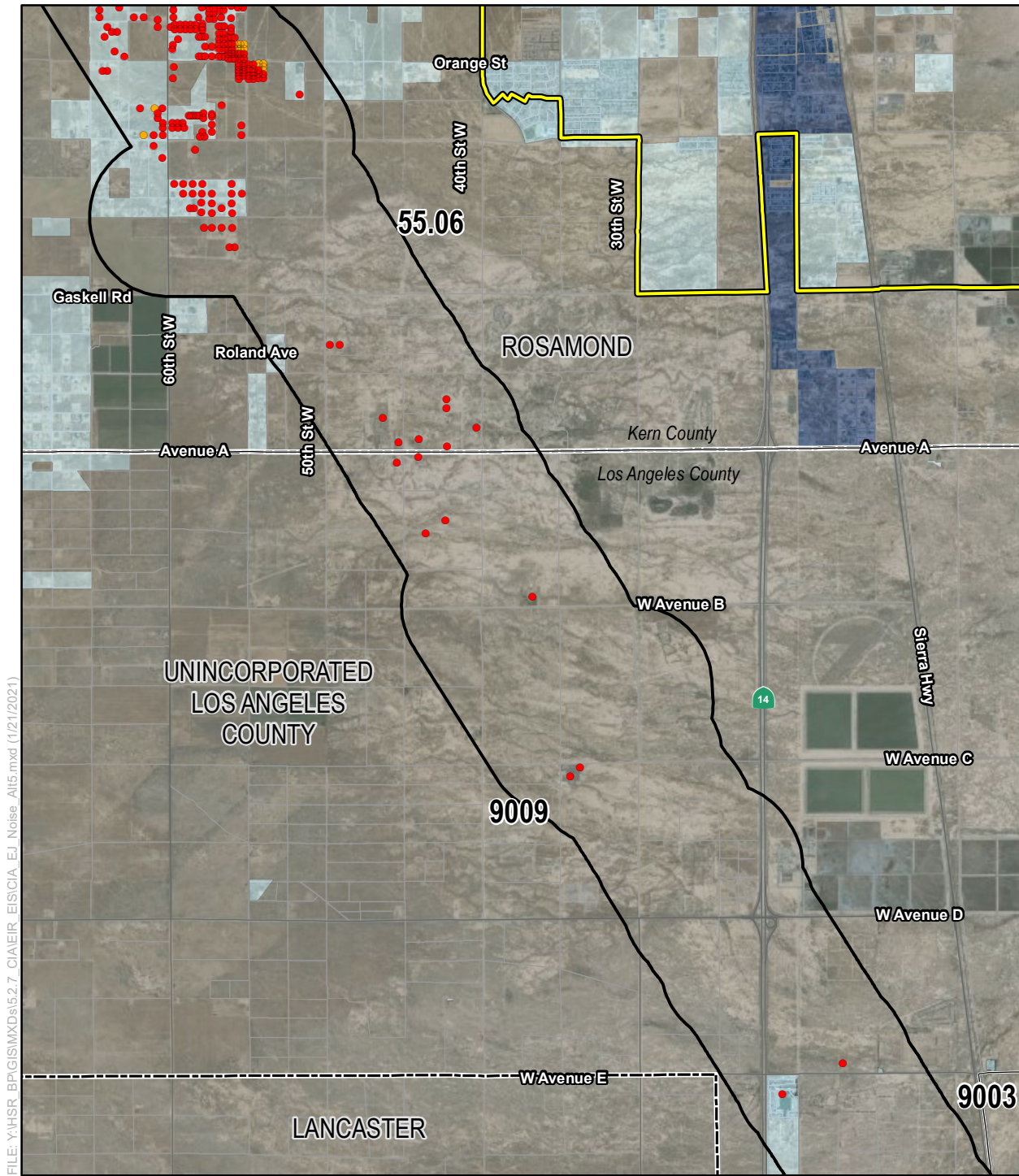
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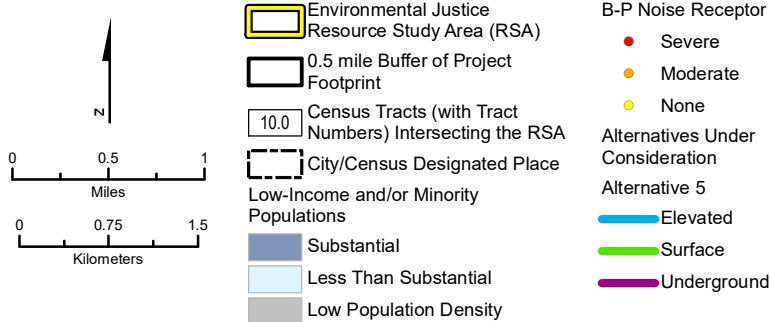
**Figure 5-A-9**  
 Operation-Phase Alternative 5  
 Noise Receptor Impacts  
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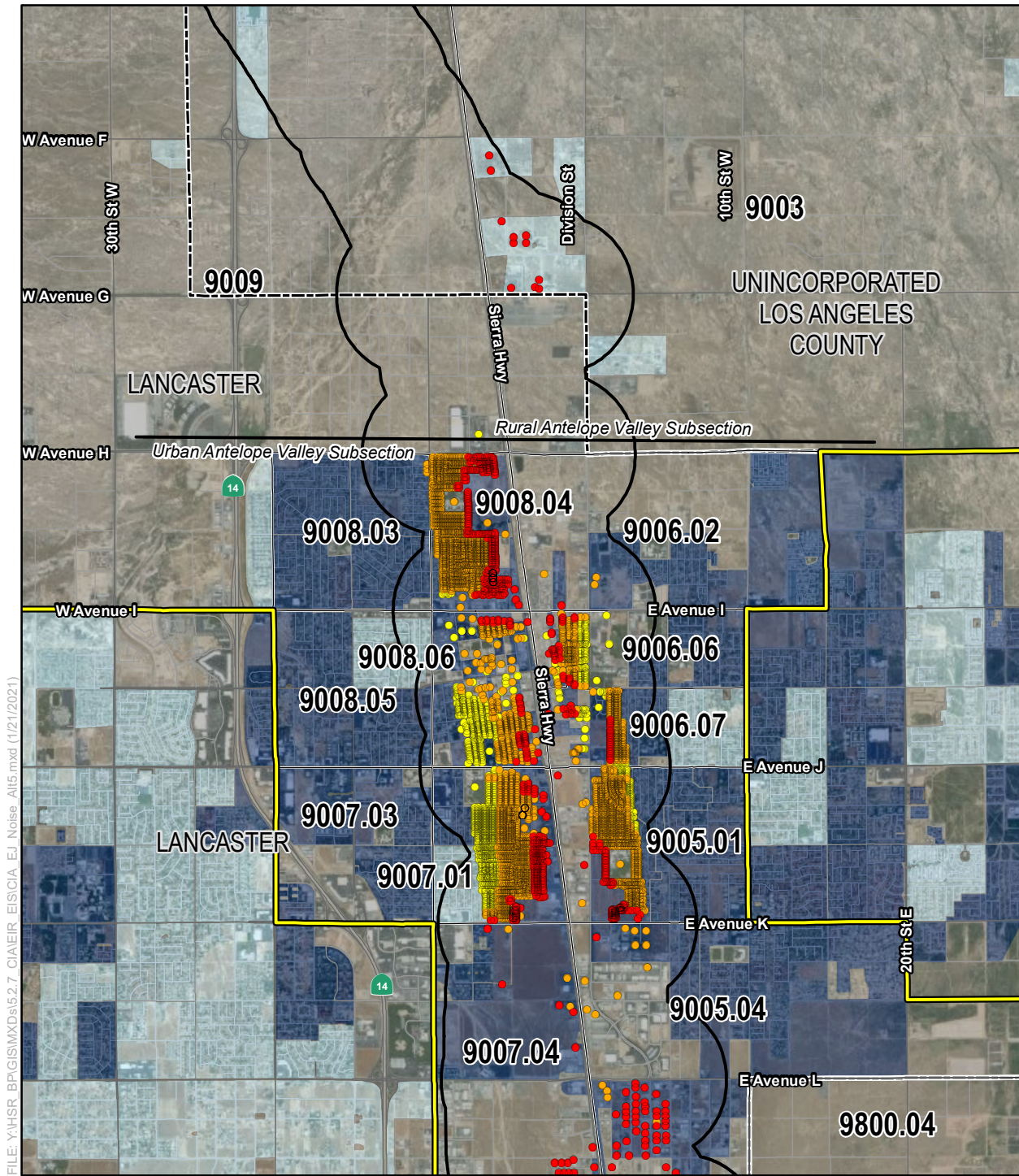
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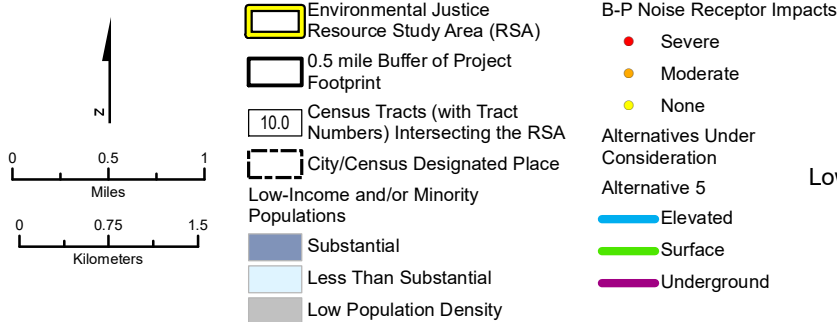
**Figure 5-A-9**  
 Operation-Phase Alternative 5  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
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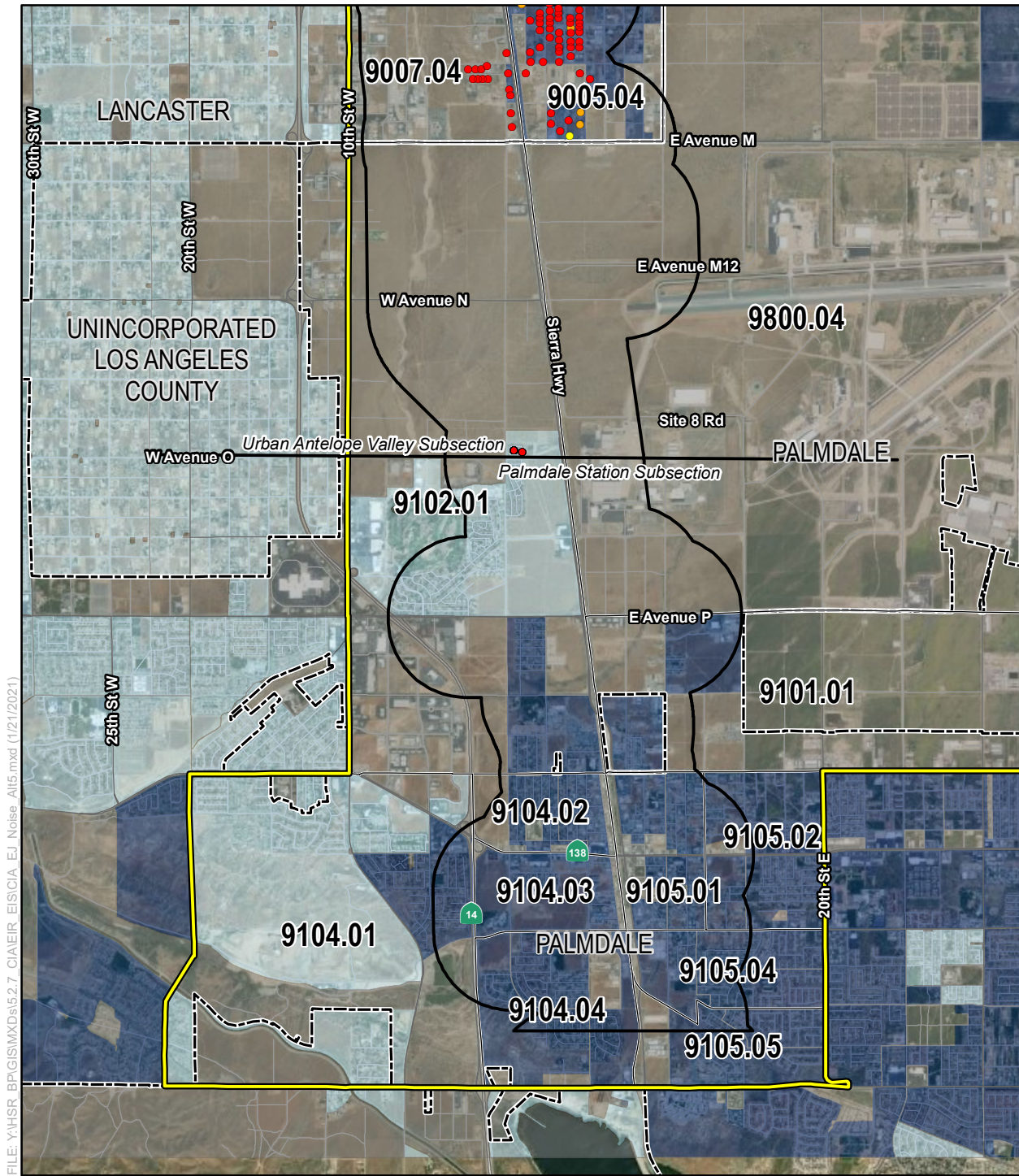
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**Figure 5-A-9**

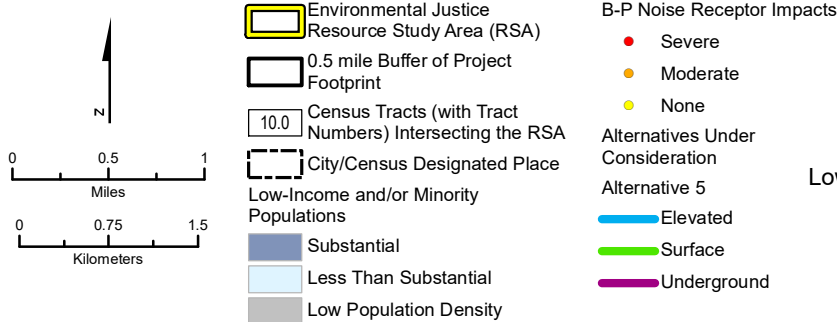
Operation-Phase Alternative 5  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
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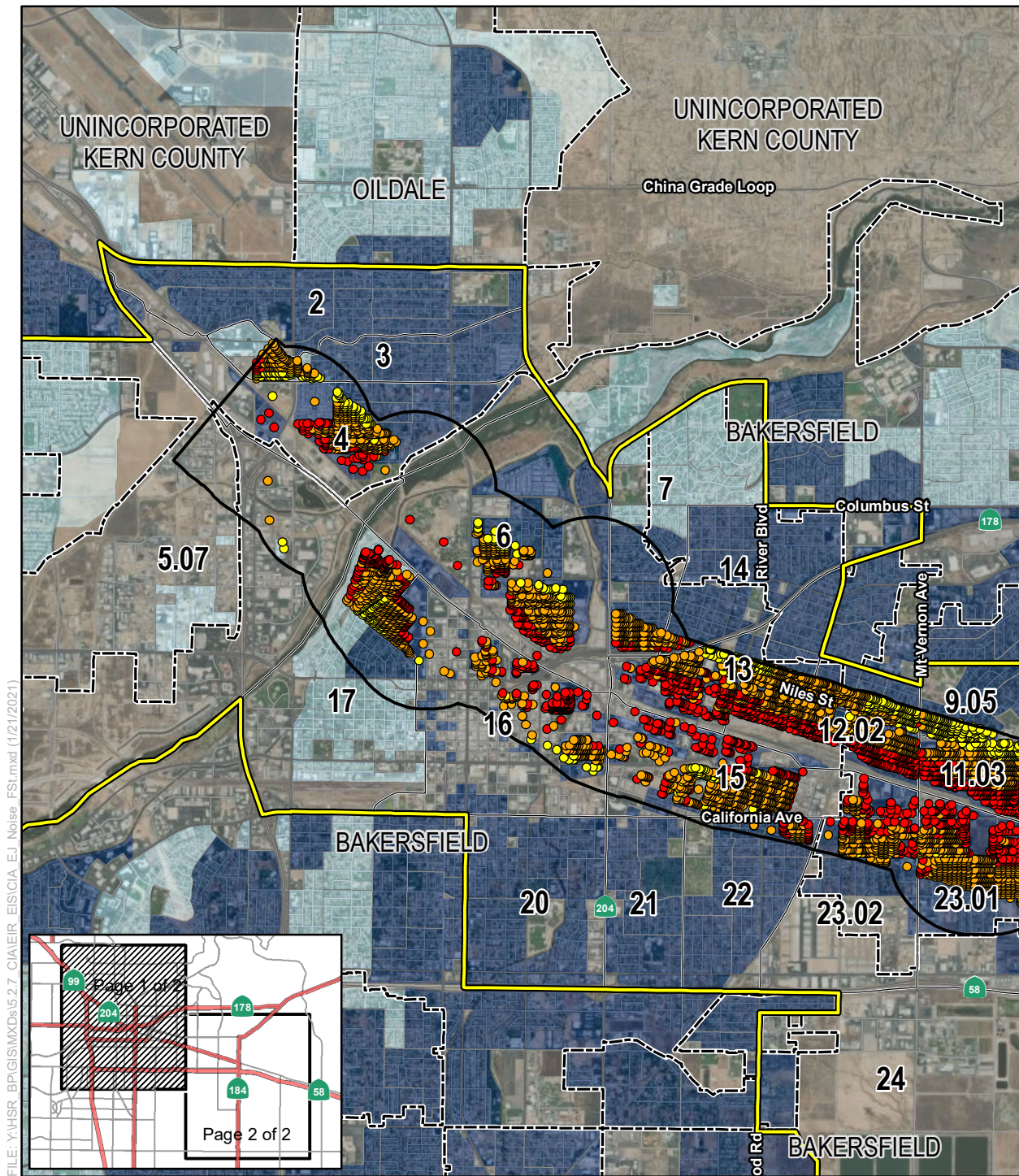
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**Figure 5-A-9**

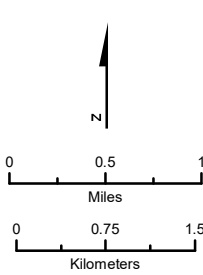
Operation-Phase Alternative 5  
 Noise Receptor Impacts  
 Low-Income and/or Minority Populations  
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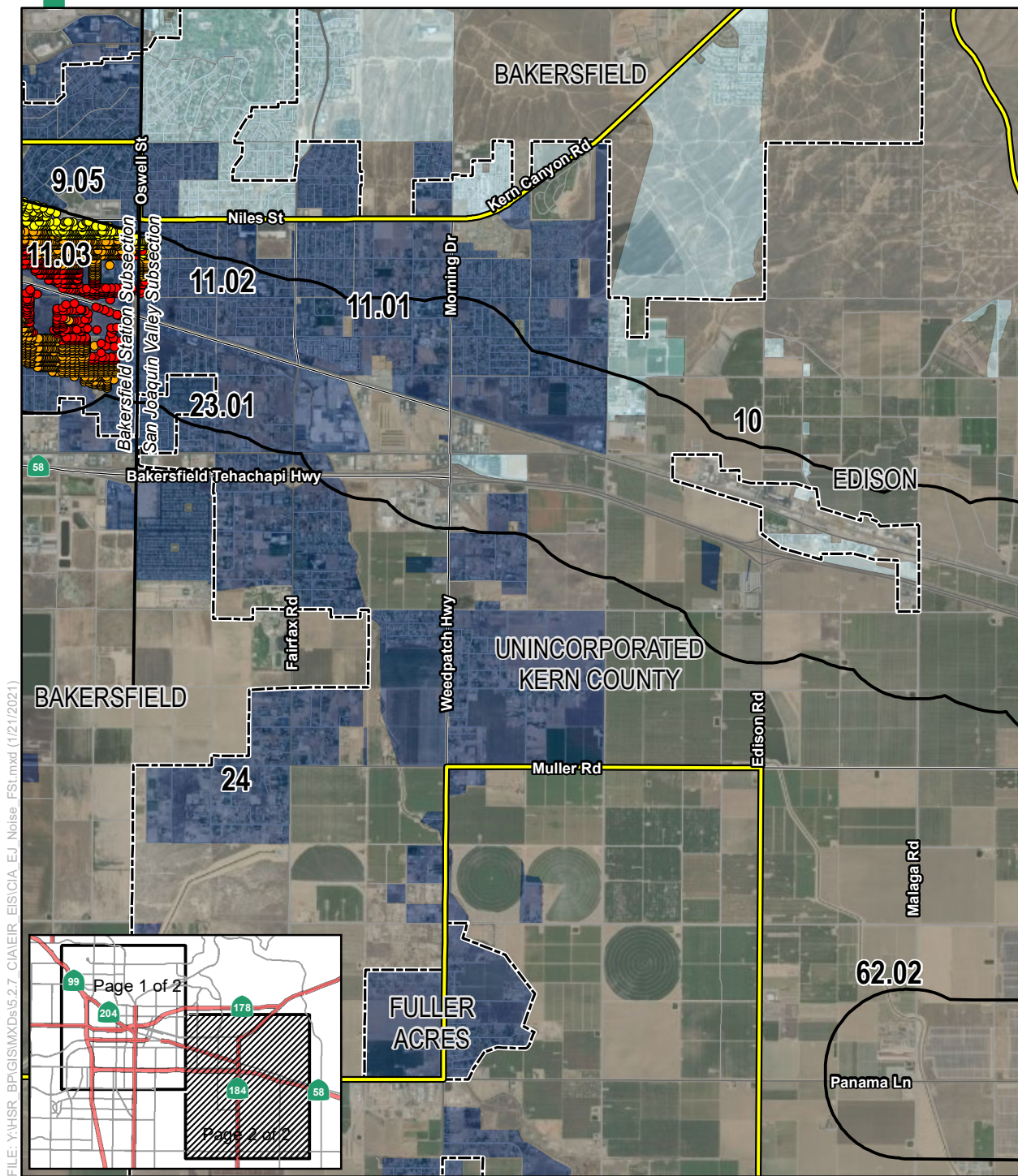


- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- 10.0 Census Tracts (with Tract Numbers) Intersecting the RSA
- City/Census Designated Place
- Low-Income and/or Minority Populations**
- Substantial
- Less Than Substantial
- Low Population Density
- Bakersfield Station – F Street Alternative Noise Receptor Impacts**
- Severe
- Mod
- None
- Alternatives Under Consideration**
- Elevated
- Surface
- Underground

**Figure 5-A-10**

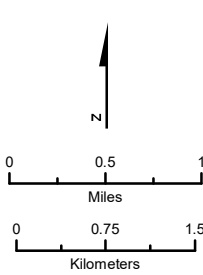
Operation-Phase  
Bakersfield Station –  
F Street Station  
Noise Receptor Impacts  
Low-Income and/or Minority Populations





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SOURCE: Esri Aerial Imagery (2015); CHSRA (10/2019); US Census Bureau American Community Survey (2009-2013)



- Environmental Justice Resource Study Area (RSA)
- 0.5 mile Buffer of Project Footprint
- 10.0 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
- Bakersfield Station – F Street Alternative Noise Receptor Impacts**
- Severe
- Mod
- None
- Alternatives Under Consideration**
- Elevated
- Surface
- Underground

**Figure 5-A-10**

Operation-Phase  
Bakersfield Station –  
F Street Station  
Noise Receptor Impacts  
Low-Income and/or Minority Populations



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