



July 20, 2009  
NND-09-0200

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555-0001

ATTN: Document Control Desk

Subject: V. C. Summer Nuclear Station Units 2 and 3  
Docket Numbers 52-027 and 52-028  
Combined License Application – Response to NRC  
Environmental Report (ER) Requests for Additional Information  
(RAI): Gen-2 Part 2 and Gen-3

- Reference:
1. Letter from Ronald B. Clary to Document Control Desk, Submittal of Revision 1 to Part 3 (Environmental Report) of the Combined License Application for the V. C. Summer Nuclear Station Units 2 and 3, dated February 13, 2009.
  2. Letter from Patricia J. Vokoun to Ronald B. Clary, Requests for Additional Information Related to the Environmental Review for the Combined License Application for the V. C. Summer Nuclear Station, Units 2 and 3, dated June 22, 2009.

By letter dated March 27, 2008, South Carolina Electric & Gas Company (SCE&G) submitted a combined license application (COLA) for V.C. Summer Nuclear Station (VCSNS) Units 2 and 3, to be located at the existing VCSNS site in Fairfield County, South Carolina. Subsequently the Environmental Report (ER), Part 3 of the application, was revised and submitted to the NRC (reference 1).

The enclosure to this letter provides the SCE&G response to RAI item Gen-2 Part 2 and Gen-3 transmitted by the NRC via reference 2. Please note that the enclosed DVD is provided to support the NRC's review of the VCSNS Environmental Report (ER), but does not comply with the requirements for electronic submissions as stated in NRC Guidance Document, "Guidance for Electronic Submissions to the NRC," dated October 29, 2008. The NRC staff requested that GIS and associated metadata be provided in native format. Formatting the DVD to comply with the guidance on electronic submissions would not serve the request to provide this information in its native format.

D083  
NPO

Please address any questions to Mr. Alfred M. Paglia, Manager, Nuclear Licensing, New Nuclear Deployment, P. O. Box 88, Jenkinsville, S.C. 29065; by telephone at 803-345-4191; or by email at [apaglia@scana.com](mailto:apaglia@scana.com).

I declare under penalty of perjury that the foregoing is true and correct.

Executed on this 20<sup>th</sup> day of July 2009



Ronald B. Clary  
General Manager  
New Nuclear Deployment

ARR/RBC/ar

Enclosures

c (with Enclosures):

Patricia Vokoun  
Carl Berkowitz  
FileNet

c (without Enclosures):

Luis A. Reyes  
John Zeiler  
Chandu Patel  
Stephen A. Byrne  
Ronald B. Clary  
Bill McCall  
William M. Cherry  
Randolph R. Mahan  
Kathryn M. Sutton  
Rich Louie  
John J. DeBlasio  
April Rice

**VCSNS UNITS 2 and 3  
Environmental Report Review  
Response to NRC Requests for Additional Information**

**NRC RAI Letter Dated June 22, 2009**

**NRC RAI Number:** Gen-2 Part 2 and Gen-3 **Revision:** 0

**Reference ER Information Needs Item:** G-9

**Question Summary (RAI):**

Gen -2: Provide metadata to support all Geographic Information System (GIS) data previously delivered to the U.S. Nuclear Regulatory Commission (NRC). This information should at a minimum include purpose, access and use constraints, source, scale, capture date, contact information, processing steps, spatial reference, and data attribute definitions.

Gen-3: Provide GIS data including metadata (source, scale, capture date, data quality, etc., as described in RAI Gen-2) for the VCSNS site and vicinity.

**Full Text (supporting information):**

Gen- 2: This RAI is intended to supplement the data provided by South Carolina Electric and Gas (SCE&G) to NRC dated May 7, 2009 (SCE&G ID# NND-09-0122). Capturing and providing metadata is standard practice for GIS professionals and normally accompanies delivery of spatial data. This information is needed to identify the data sources, processing methods, and the quality of the data used in the ER figures. Additionally, any supplemental analysis that uses these data for the Environmental Impact Statement (EIS) must be supported by a defensible resource. These metadata should be included for all data layers provided to NRC, including but not limited to the land use classification between Santee Cooper and SCE&G transmission-line siting studies.

Gen-3: GIS data are needed to verify spatial analyses and to prepare maps for the environmental review.

**VCSNS Response:**

To the extent practical, supplemental metadata is provided with the attached GIS data.

See also SCE&G letter NND-09-0163 dated June 15, 2009 for the response to ER Information Needs Item G-9 Part 2 (Bechtel and Tetra Tech data).

**Associated COLA Revisions:**

No COLA revisions are required as a result of the response to this RAI.

**Associated Attachments:**

Directory of GIS File Contents.

# Directory of GIS File Contents

## GIS files for ER2.3 Figures

- tin4
- tin8
- 6-mile radius.txt
- 50-mile radius.txt
- Bedrock\_September\_06\_B.dbf
- Bedrock\_September\_06\_B.sbn
- Bedrock\_September\_06\_B.sbx
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- Broad\_River.dbf
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- Broad\_River.shp
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- BroadRiverParrSPFeet.dbf
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- BroadRiverParrSPFeet.sbn
- BroadRiverParrSPFeet.sbx
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- BroadRiverParrSPFeet.shp.xml
- BroadRiverParrSPFeet.shx
- clip\_contour\_rast.dbf
- clip\_contour\_rast.prj
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- clip\_contour\_rast.shx
- Clip\_streets.dbf

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- Clip\_streets.shx
- contoures.mdb
- counties\_test.dbf
- counties\_test.prj
- counties\_test.sbn
- counties\_test.sbx
- counties\_test.shp
- counties\_test.shp.xml
- counties\_test.shx
- data.mdb
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- December 07 - bedrock.sbn
- December 07 - bedrock.sbx
- December 07 - bedrock.shp
- December 07 - bedrock.shp.xml
- December 07 - bedrock.shx
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- Existing\_proposed.prj
- Existing\_proposed.sbn
- Existing\_proposed.sbx
- Existing\_proposed.shp
- Existing\_proposed.shp.xml
- Existing\_proposed.shx
- Figure2.3-1.mxd
- Figure2.3-2.mxd
- Figure2.3-3.mxd
- Figure2.3-4.mxd
- Figure2.3-9.mxd
- Figure2.3-12.mxd
- Figure2.3-26.mxd

- Figure2.3-27.mxd
- Figure2.3-30.mxd
- Figure2.3-31.mxd
- Figure2.3-34.mxd
- gw\_OW.dbf
- gw\_OW.sbn
- gw\_OW.sbx
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- gw\_OW.shx
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- June07\_Bedrock\_Contours.shp
- June07\_Bedrock\_Contours.SHX
- June07\_Bedrock\_Contours\_noLabels.DBF
- June07\_Bedrock\_Contours\_noLabels.sbn
- June07\_Bedrock\_Contours\_noLabels.sbx
- June07\_Bedrock\_Contours\_noLabels.shp
- June07\_Bedrock\_Contours\_noLabels.SHX
- June07\_WT\_Contours\_no501.DBF
- June07\_WT\_Contours\_no501.shp
- June07\_WT\_Contours\_no501.SHX
- June07\_WT\_Contours\_no501noLabels.DBF
- June07\_WT\_Contours\_no501noLabels.sbn
- June07\_WT\_Contours\_no501noLabels.sbx
- June07\_WT\_Contours\_no501noLabels.shp
- June07\_WT\_Contours\_no501noLabels.SHX
- March\_07-bedrok.dbf
- March\_07-bedrok.sbn
- March\_07-bedrok.sbx
- March\_07-bedrok.shp
- March\_07-bedrok.shx
- March\_Water\_Table\_ContoursREVISEDnolablesB.dbf
- March\_Water\_Table\_ContoursREVISEDnolablesB.sbn
- March\_Water\_Table\_ContoursREVISEDnolablesB.sbx
- March\_Water\_Table\_ContoursREVISEDnolablesB.shp
- March\_Water\_Table\_ContoursREVISEDnolablesB.shx

## Directory of GIS File Contents

- Monti\_Areas.dbf
- Monti\_Areas.prj
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- Monti\_Areas.sbx
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- Monti\_Areas.shx
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- Names2.prj
- Names2.sbn
- Names2.sbx
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- Names.prj
- Names.sbn
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- Names.shx
- navestrm\_rft2.dbf
- navestrm\_rft2.prj
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- navestrm\_rft2.shp
- navestrm\_rft2.shp.xml
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- navlake.dbf
- navlake.prj
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- navlake.shp.xml
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- nwp401.dbf
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- ParrDam\_+.dbf
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- ParrDam\_+.shp.xml
- ParrDam\_+.shx
- pgwcbow.dbf

- pgwcbow.prj
- pgwcbow.sbn
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- SC\_3Cities.dbf
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- SC\_hydrogl020.shx
- SC\_sitys.dbf
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- SC\_sitys.shp
- SC\_sitys.shx
- scbasin8.dbf
- scbasin8.shp
- scbasin8.shp.xml
- scbasin8.shx
- schema.ini
- VC\_SUMMER\_FOR\_SanFransisco3Poly2.dbf
- VC\_SUMMER\_FOR\_SanFransisco3Poly2.sbn
- VC\_SUMMER\_FOR\_SanFransisco3Poly2.sbx
- VC\_SUMMER\_FOR\_SanFransisco3Poly2.shp

## Directory of GIS File Contents

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- 
- prj.adf
  - tdenv.adf
  - tedg.adf
  - thul.adf
  - tmsk.adf
  - tmsx.adf
  - tndsc.adf
  - tnod.adf
  - tnval.adf
  - tnxy.adf
  - tnz.adf

### GIS files for ER2.3 Figures\tin8

- metadata.xml
- prj.adf
- tdenv.adf
- tedg.adf
- thul.adf
- tmsk.adf
- tmsx.adf
- tnod.adf
- tnxy.adf
- tnz.adf

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-  boundary
-  buffers
-  CAD
-  census
-  ecological
-  LULC
-  new\_plant\_features
-  pdfs
-  places
-  rad\_samples
-  tiger
-  timber
-  transmission
-  transportation
-  utilities
-  water
-  Wetlands
-  windrose
-  2.1-1 VCSNS Site and the Proposed Footprint.mxd
-  2.1-1 VCSNS Site and the Proposed Footprint.mxd.xml
-  2.1-2 50-Mile Vicinity.mxd
-  2.1-3 6-Mile Vicinity.mxd
-  2.2-1 Land Use on the Proposed Site.mxd
-  2.2-2 Land Use in the Vicinity.mxd
-  2.2-3 Existing Transmission System for Unit1.mxd
-  2.2-3 Existing Transmission System for Unit1.mxd.xml
-  2.2-4 Potential Transmission System.mxd
-  2.2-4 Potential Transmission System.mxd.xml
-  2.2-5 Land Use in the Region.mxd
-  2.4-1 Habitats and Areas in the Proj Area.mxd
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-  2.4-3 Small Mammal Trapping Transects.mxd
-  2.5-1 10-mile sectors.mxd
-  2.5-2 50-Mile sectors.mxd
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-  2.5-5 Cultural Surveys.mxd
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-  2.5-7 EJ AI\_AN Minority.mxd
-  2.5-8 EJ Asian Minority.mxd
-  2.5-9 EJ Aggregate Minority.mxd
-  2.5-10 EJ Hispanic Minority.mxd
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-  6.3-1 Observation Wells.mxd
-  9.3-3 SRS.mxd
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-  9.3-8 CopeGeneratingStation Low-Income.mxd
-  9.3-9 SaludaSite.mxd
-  9.3-10 SaludaCountySite Minority.mxd
-  9.3-11 SaludaCountySite Low-Income.mxd

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-  AS12099.zip
-  AS12170.zip
-  ddvga01a.Style
-  DDVGA01A.TTF
-  DDVGA02A.TTF
-  DDVGA03A.TTF
-  DDVGA04A.TTF
-  ddvsc01b.Style
-  DDVSC01B.TTF
-  DDVSC02B.TTF
-  DDVSC03B.TTF
-  GAinstall.pdf
-  read me.txt
-  SCinstall.pdf

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### GIS files for TtNUS Figures\AlternateSites

AlternateSites_readme.txt	Buffer_of_SaludaSite.shp.xml	Cope.shp	SRS.sbn
Buffer_of_Cope.dbf	Buffer_of_SaludaSite.shx	Cope.shp.xml	SRS.sbx
Buffer_of_Cope.prj	Buffer_of_SRS.dbf	Cope.shx	SRS.shp
Buffer_of_Cope.sbn	Buffer_of_SRS.prj	SaludaSite.dbf	SRS.shp.xml
Buffer_of_Cope.sbx	Buffer_of_SRS.sbn	SaludaSite.prj	SRS.shx
Buffer_of_Cope.shp	Buffer_of_SRS.sbx	SaludaSite.sbn	SRS_latlong.dbf
Buffer_of_Cope.shp.xml	Buffer_of_SRS.shp	SaludaSite.sbx	SRS_latlong.prj
Buffer_of_Cope.shx	Buffer_of_SRS.shp.xml	SaludaSite.shp	SRS_latlong.sbn
Buffer_of_SaludaSite.dbf	Buffer_of_SRS.shx	SaludaSite.shp.xml	SRS_latlong.sbx
Buffer_of_SaludaSite.prj	Cope.dbf	SaludaSite.shx	SRS_latlong.shp
Buffer_of_SaludaSite.sbn	Cope.prj	schema.ini	SRS_latlong.shp.xml
Buffer_of_SaludaSite.sbx	Cope.sbn	SRS.dbf	SRS_latlong.shx
Buffer_of_SaludaSite.shp	Cope.sbx	SRS.prj	

### GIS files for TtNUS Figures\archaeological

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cemetery_boundary.sbn	cultural_survey.sbn	SurveyAreaNAD27.sbn	
cemetery_boundary.sbx	cultural_survey.sbx	SurveyAreaNAD27.sbx	
cemetery_boundary.shp	cultural_survey.shp	SurveyAreaNAD27.shp	
cemetery_boundary.shp.xml	cultural_survey.shp.xml	SurveyAreaNAD27.shp.xml	

### GIS files for TtNUS Figures\boundary

9302G 24x36rev .pdf	counties.sbn	states.dbf	states.shx
boundary_readme.txt	counties.sbx	states.prj	
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counties.dbf	counties.shp.xml	states.sbx	
counties.FIPS.atx	counties.shx	states.shp	
counties.prj	schema.ini	states.shp.xml	

### GIS files for TtNUS Figures\buffers

6-mile.dbf	6-mile.shx	10-mile.shp.xml	50-mile.shp	LPZ.prj	schema.ini
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6-mile.sbx	10-mile.sbn	50-mile.prj	buffers_readme.txt	LPZ.shp	
6-mile.shp	10-mile.sbx	50-mile.sbn	buffers_readme.txt.xml	LPZ.shp.xml	
6-mile.shp.xml	10-mile.shp	50-mile.sbx	LPZ.dbf	LPZ.shx	

### GIS files for TtNUS Figures\CAD

25242-C2-0000-00001_4_12_07.dwg	25242-C2-0000-00002_4_12_07.dwg.xml	25242-C2-0010-00002_4_12_07.dwg.xml
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25242-C2-0000-00001_4_12_07.prj	25242-C2-0010-00001_4_12_07.dwg.xml	Thumbs.db
25242-C2-0000-00002_4_12_07.dwg	25242-C2-0010-00002_4_12_07.dwg	

## Directory of GIS File Contents

### \GIS files for TtNUS Figures\census

Cope	ai_an.sbn	at_tigeresri482814913.zip	blockgroups50.sbx	hispanic.shx
data	ai_an.sbx	at_tigeresri678211403.zip	blockgroups50.shp	low_income.dbf
SaludaCo	ai_an.shp	black.dbf	blockgroups50.shp.xml	low_income.prj
SRS	ai_an.shp.xml	black.prj	blockgroups50.shx	low_income.sbn
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aggregate.prj	asian.dbf	black.sbx	EJ_DATA.DBF	low_income.shp
aggregate.sbn	asian.prj	black.shp	EJ_DATA.dbf.xml	low_income.shp.xml
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Acc2000.zip	nc00008_uf3.zip	ncgeo_uf1.zip	SC2000SF1.mdb	SCSF3.mdb
Access97.zip	NC_LI_data.zip	ncgeo_uf3.zip	SC_LI_data.zip	SF1.MDB
at_tigeresri3819114140.zip	NC_race_data.zip	NCSF1.mdb	SC_race_data.zip	sf1blk45000.zip
data_readme.txt	nc_sf1_u_data1.xls	NCSF3.mdb	sc_sf1_u_data1.xls	tgr45000sf1blk.dbf
nc00001_uf1.zip	nc_sf3_u_data1.xls	readme.html	sc_sf3_u_data1.xls	tgr45000sf1blk.STFID.atx

### GIS files for TtNUS Figures\census\SaludaCo

Saluda_bgs.dbf	Saluda_bgs.sbx	Saluda_bgs.shx	Saluda_readme.txt
Saluda_bgs.prj	Saluda_bgs.shp	Saluda_DATA.DBF	
Saluda_bgs.sbn	Saluda_bgs.shp.xml	Saluda_DATA.SFID.atx	

### GIS files for TtNUS Figures\census\SRS

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schema.ini	SRS_50milebg.sbn	SRS_50milebg.shp.xml	SRS_readme.txt.xml

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eagle_nests.sbn	electrofishing.sbx	fish_samples2.shp.xml	macroinvertebrate.dbf	TandE_Surveys.prj
eagle_nests.sbx	electrofishing.shp	fish_samples2.shx	macroinvertebrate.prj	TandE_Surveys.sbn
eagle_nests.shp	electrofishing.shp.xml	fish_samples.dbf	macroinvertebrate.sbn	TandE_Surveys.sbx
eagle_nests.shp.xml	electrofishing.shx	fish_samples.prj	macroinvertebrate.sbx	TandE_Surveys.shp
eagle_nests.shx	fish_samples2.dbf	fish_samples.sbn	macroinvertebrate.shp	TandE_Surveys.shp.xml
ecological_readme.txt	fish_samples2.prj	fish_samples.sbx	macroinvertebrate.shp.xml	TandE_Surveys.shx

### GIS files for TtNUS Figures\ecological\trapping

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CR_311.prj	major_roads.prj	public_airports.sbn	rr.shp	traffic_patterns.shp
CR_311.sbn	major_roads.sbn	public_airports.sbx	rr.shp.xml	traffic_patterns.shp.xml
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groundwater\_readme.txt.xml    ob\_wells.xls    wells.prj    wells.shp  
ob\_wells.dbf    schema.ini    wells.sbn    wells.shp.xml

### GIS files for TtNUS Figures\Wetlands

schema.ini    wetlands.shp.xml    wetlands\_disturbed1208.shp.xml    wetlands\_EAB.shp.xml  
wetlands.dbf    wetlands.shx    wetlands\_disturbed1208.shx    wetlands\_EAB.shx  
wetlands.prj    wetlands\_disturbed1208.dbf    wetlands\_EAB.dbf    wetlands\_readme.txt  
wetlands.sbn    wetlands\_disturbed1208.prj    wetlands\_EAB.prj    wetlands\_readme.txt.xml  
wetlands.sbx    wetlands\_disturbed1208.sbn    wetlands\_EAB.sbn  
wetlands.sgml    wetlands\_disturbed1208.sbx    wetlands\_EAB.sbx  
wetlands.shp    wetlands\_disturbed1208.shp    wetlands\_EAB.shp

### GIS files for TtNUS Figures\windrose

tables    LPZ\_windrose.shp.xml    windrose.sbn    windrose\_readme.txt  
LPZ\_windrose.dbf    LPZ\_windrose.shx    windrose.sbx    windrose\_readme.txt.xml  
LPZ\_windrose.sbn    schema.ini    windrose.shp  
LPZ\_windrose.sbx    windrose.aih    windrose.shp.xml  
LPZ\_windrose.shp    windrose.dbf    windrose.shx

### GIS files for TtNUS Figures\windrose\tables

0C316100    direct10\_sums.dbf    sum\_10mile.dbf    tables\_readme.txt  
50mile\_dir\_sums.dbf    direct50\_sums.dbf    sum\_50mile.dbf  
county\_growth.dbf    sector\_pop.dbf    sum\_copop.CODE.atx  
county\_growth.FIPS.atx    sector\_pop.SECTOR\_ID.atx    sum\_copop.dbf

## Directory of GIS File Contents

### GIS files for ER2.7 Figures.zip

Buff\_50km\_mid23.dbf  
Buff\_50km\_mid23.prj  
Buff\_50km\_mid23.sbn  
Buff\_50km\_mid23.sbx  
Buff\_50km\_mid23.shp  
Buff\_50km\_mid23.shp.xml  
Buff\_50km\_mid23.shx  
buff\_50mi.dbf  
buff\_50mi.prj  
buff\_50mi.sbn  
buff\_50mi.sbx  
buff\_50mi.shp  
buff\_50mi.shp.xml  
buff\_50mi.shx  
Buff\_50mi\_sp.dbf  
Buff\_50mi\_sp.prj  
Buff\_50mi\_sp.sbn  
Buff\_50mi\_sp.sbx  
Buff\_50mi\_sp.shp  
Buff\_50mi\_sp.shp.xml  
Buff\_50mi\_sp.shx  
dtl\_st\_In.sdc  
dtl\_st\_In.sdc.prj  
dtl\_st\_In.sdc.xml  
dtl\_st\_In.sdi  
dtl\_wat.sdc  
dtl\_wat.sdc.prj  
dtl\_wat.sdc.xml  
dtl\_wat.sdi  
EAB.dbf  
EAB.prj  
EAB.sbn  
EAB.sbx  
EAB.shp  
EAB.shp.xml  
EAB.shx  
EAB\_new\_units.dbf  
EAB\_new\_units.prj  
EAB\_new\_units.sbn  
EAB\_new\_units.sbx  
EAB\_new\_units.shp  
EAB\_new\_units.shp.xml  
EAB\_new\_units.shx  
Figure\_2.7-1\_Climate\_Stations\_Rev002.mxd  
Figure\_2.7-17\_SCE&G\_REV02.mxd  
Figure\_2.7-17\_SCE&G\_REV02.mxd.xml  
hydroIn.sdc  
hydroIn.sdc.prj  
hydroIn.sdc.xml  
hydroIn.sdi  
md\_wat.sdc  
md\_wat.sdc.prj  
md\_wat.sdc.xml  
md\_wat.sdi

park\_dtl.sdc  
park\_dtl.sdc.prj  
park\_dtl.sdc.xml  
park\_dtl.sdi  
Parks (Detailed).lyr  
Parks (Detailed).lyr.xml  
Plant\_Layout.dbf  
Plant\_Layout.prj  
Plant\_Layout.sbn  
Plant\_Layout.sbx  
Plant\_Layout.shp  
Plant\_Layout.shp.xml  
Plant\_Layout.shx  
Power\_Block\_Circle.dbf  
Power\_Block\_Circle.prj  
Power\_Block\_Circle.sbn  
Power\_Block\_Circle.sbx  
Power\_Block\_Circle.shp  
Power\_Block\_Circle.shp.xml  
Power\_Block\_Circle.shx  
rail100k.sdc  
rail100k.sdc.prj  
rail100k.sdc.xml  
rail100k.sdi  
SC\_city\_area\_50mi.dbf  
SC\_city\_area\_50mi.prj  
SC\_city\_area\_50mi.sbn  
SC\_city\_area\_50mi.sbx  
SC\_city\_area\_50mi.shp  
SC\_city\_area\_50mi.shp.xml  
SC\_city\_area\_50mi.shx  
SC\_Climate\_Stations.dbf  
SC\_Climate\_Stations.prj  
SC\_Climate\_Stations.sbn  
SC\_Climate\_Stations.sbx  
SC\_Climate\_Stations.shp  
SC\_Climate\_Stations.shp.xml  
SC\_Climate\_Stations.shx  
SC\_counties.dbf  
SC\_counties.prj  
SC\_counties.sbn  
SC\_counties.sbx  
SC\_counties.shp  
SC\_counties.shp.xml  
SC\_counties.shx  
States\_projected\_83.dbf  
States\_projected\_83.prj  
States\_projected\_83.sbn  
States\_projected\_83.sbx  
States\_projected\_83.shp  
States\_projected\_83.shp.xml  
States\_projected\_83.shx  
Streets(Local)\_5mi.dbf  
Streets(Local)\_5mi.prj  
Streets(Local)\_5mi.sbn  
Streets(Local)\_5mi.sbx  
Streets(Local)\_5mi.shp  
Streets(Local)\_5mi.shp.xml  
Streets(Local)\_5mi.shx  
unit\_points.dbf  
unit\_points.prj  
unit\_points.sbn  
unit\_points.sbx  
unit\_points.shp  
unit\_points.shp.xml  
unit\_points.shx  
Unit1\_Layout.dbf  
Unit1\_Layout.sbn  
Unit1\_Layout.sbx  
Unit1\_Layout.shp  
Unit1\_Layout.shp.xml  
Unit1\_Layout.shx

**PRE-NUMBERED GEORGIA HIGHWAY SHIELDS**  
Incorporating Series IIa Shield Designs

Version "A" Created 05/08/02

**Marker Symbols by Data Deja View**  
for:  
**Workstation Arc/Info, ArcView 3.x,**  
**and ArcGIS 8.x Desktop**

This set contains several styles of highway route signs with pre-numbered shields for:

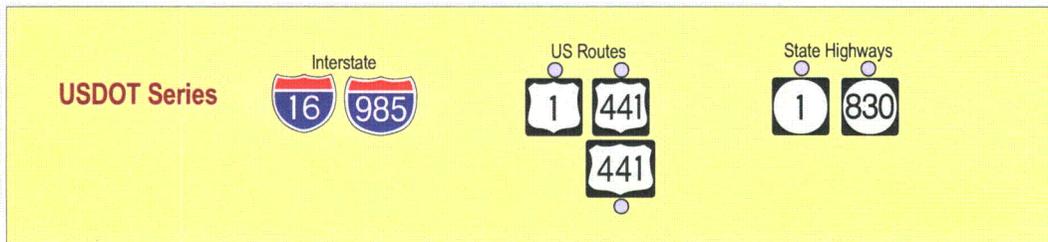
- 14 Interstate Highways
- 35 US Highways
- 296 State Highways

**Legend for User Changeable Shield Color Layers**

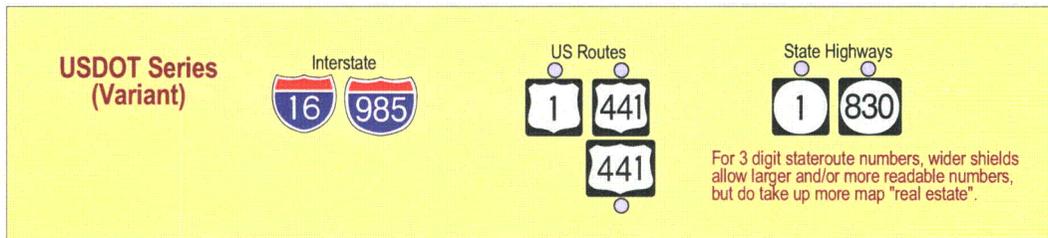
- = Changeable Foreground Color (shown in black or gray)
- = Changeable Background Color (shown in white)

**SPECIAL NOTE:** BLUE ITEMS below are planned, but may not become available (check in ArcScripts).

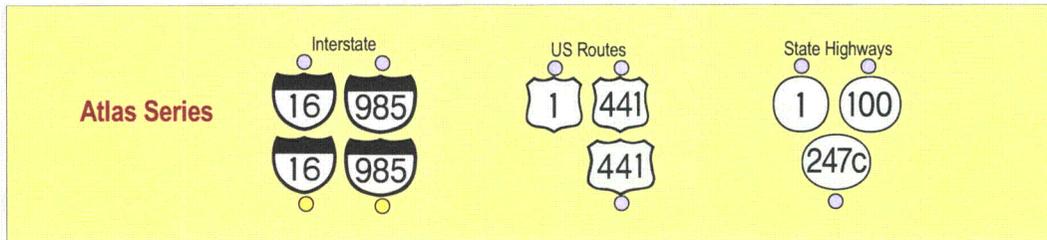
It is only necessary to install the specific series that you will be using. The following descriptions indicate which fonts and which markersets, palettes and/or styles must be installed for each series.



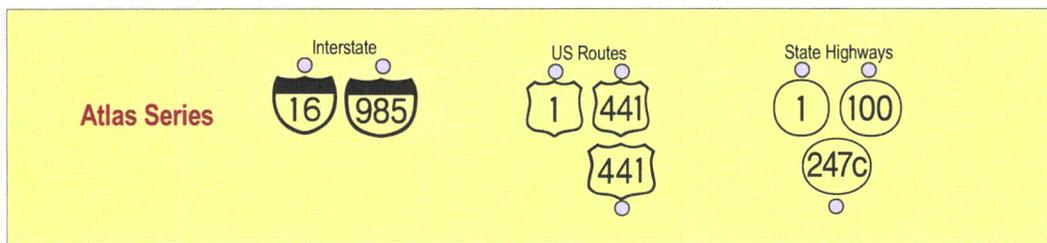
FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVGA01A.TTF	71001	DDVGA01A	DDVGA01A.MRK	DDVGA01A.AVP	DDVGA01A.Style
DDVGA02A.TTF	71002	DDVGA02A			
DDVGA03A.TTF	71003	DDVGA03A			
DDVGA04A.TTF	71004	DDVGA04A			



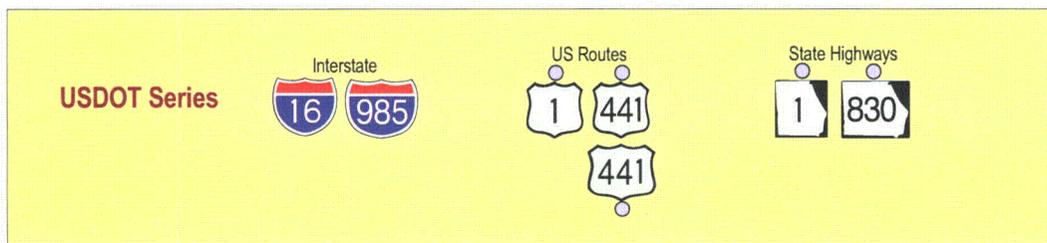
FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVGA05A.TTF	71005	DDVGA05A	DDVGA05A.MRK	DDVGA05A.AVP	DDVGA05A.Style
DDVGA06A.TTF	71006	DDVGA06A			
DDVGA07A.TTF	71007	DDVGA07A			
DDVGA08A.TTF	71008	DDVGA08A			



FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVGA09A.TTF	71009	DDVGA09A	DDVGA09A.MRK	DDVGA09A.AVP	DDVGA09A.Style
DDVGA10A.TTF	71010	DDVGA10A			
DDVGA11A.TTF	71011	DDVGA11A			
DDVGA12A.TTF	71012	DDVGA12A			



FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVGA09A.TTF	71009	DDVGA09A	DDVGA10A.MRK	DDVGA10A.AVP	DDVGA10A.Style
DDVGA10A.TTF	71010	DDVGA10A			
DDVGA11A.TTF	71011	DDVGA11A			
DDVGA12A.TTF	71012	DDVGA12A			



FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVGA13A.TTF	71013	DDVGA13A	DDVGA13A.MRK	DDVGA13A.AVP	DDVGA13A.Style
DDVGA14A.TTF	71014	DDVGA14A			
DDVGA15A.TTF	71015	DDVGA15A			
DDVGA16A.TTF	71016	DDVGA16A			

=====

## ArcView 3.x INSTALLATION INSTRUCTIONS

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NOTE: These instructions assume you temporarily saved the WinZip file in your C:\TEMP directory and unzipped the files in that location. Substitute paths as appropriate to your system and file names according to the file set you received. Instructions assume a WIN 95, WIN 2000 or NT 4.0 installation (action with WIN XP should be similar). C:\TEMP should now contain the following:

After extraction there will be three classes of files:

TRUE TYPE FONTS: DDVxxxx.TTF Marker sets will always have at least one font and may have thirty or more. (e.g.: DDVCA01D.TTF, DDVMAP1B.TTF).

ARCVIEW PALETTES: DDVxxxx.AVP Marker sets will have four or more palettes.

XXinstall.DOC (or possibly .HTM or .PDF) – these instructions.

Note that \.....\ refers to the path where ArcView as installed. For example "D:\ESRI\AV\_GIS31\ARCVIEW"

### WINTEL PLATFORM =====

IMPORTANT: Make sure that ArcView is CLOSED before installing the fonts. Once Arcview is open, it doesn't recognize any newly loaded fonts until it is closed and then opened again. This may seem basic, but it has been the "gotcha" for lot of people.

STEP 1 INSTALL THE FONT - Navigate as follows:

Start -> Settings -> Control Panel -> Fonts -> File -> Install New Font

When prompted navigate to C:\TEMP and the names of the true type font(s) should appear. Select DDVxxxx (True Type). Also select the any other fonts included in this set of symbols. Press OK.

STEP 2 INSTALL THE PALETTE - Using Explorer or File Manager copy DDVxxxx.AVP to \.....\SYMBOLS.

STEP 3 LOAD PALETTE(S) - Now its okay to open ArcView. Load the palettes:

Window menu -> Show Symbol Window -> Palette Manager -> Load

This will invoke the Load Palette dialog. Navigate to \.....\SYMBOLS and select DDVxxxx.AVP. Don't worry if the load takes somewhat longer than for other palettes; that's normal.

The DDVxxxx symbols should now appear under Markers after any already loaded marker sets.

STEP 4 Use them ! ... and hopefully produce your Layouts a little more quickly.

**NOTE: If you have installation problems, please refer to the Troubleshooting section below.**

## UNIX PLATFORM =====

Data Deja View has only tested markers on one UNIX platform. The good news is that the markers installed successfully. The bad news is that UNIX ArcView does not put together composite markers the same way as WinTel ArcView. Some layer misalignments may be so severe that the marker is not useable. Markers with all color layers about the same size don't seem to exhibit this problem and appear to be useable.

With DDV series Ila shield designs, users may now see a decrease in UNIX alignment problems.

**IMPORTANT:** Make sure that ArcView is CLOSED before installing the fonts. Once Arcview is open, it doesn't recognize any newly loaded fonts until it is closed and then opened again. This may seem basic, but it has been the "gotcha" for lot of people.

And as with all UNIX systems "Don't forget your permissions!"

STEP 1 - Copy all the fonts to the font directory under ArcView. In the system tested by DDV this directory path was:

```
/usr/esri/arcview3/fonts
```

STEP 2 - Copy all the palettes to the symbols directory under ArcView. In the tested system this directory path was:

```
/usr/esri/arcview3/symbols
```

STEP 3 - Edit the "font.ndx" file to add entries for the new fonts. In the tested system the path to this directory was:

```
/usr/esri/arcview3/etc/font.ndx
```

Sample entries used for two DDV fonts are as follows:

```
TRUETYPE 990004 $AVHOME/fonts/ddvhazib.ttf 990004
TRUETYPE ddvhaz1b
  NAME = ddvhaz1b
  FAMILY = ddvhaz1b
  STYLE = Normal
```

```
TRUETYPE 990005 $AVHOME/fonts/ddvvt01c.ttf 990005
TRUETYPE ddvvt01c
  NAME = ddvvt01c
  FAMILY = ddvvt01c
  STYLE = Normal
```

STEP 4 - Open up ArcView and hopefully enjoy (at least some) of these custom symbols.

**NOTE:** Some UNIX flavors may need additional coaxing and coddling. See your (hopefully friendly and available) UNIX administrators.

=====

## Arc/Info 7.x/8.x INSTALLATION INSTRUCTIONS

=====

After extraction there will be three classes of files:

TRUE TYPE FONTS: DDVxxxx.TTF    Marker sets will always have at least one font and may have thirty or more. (e.g.: DDVCA01D.TTF, DDVMAP1B.TTF).

ARCVIEW PALETTES: DDVxxxx.MRK    Markersets will have four or more palettes. These must be installed using FONTLOAD and the Font Numbers shown in the tables at the beginning of this document must be used

XXinstall.DOC (or possibly .HTM or .PDF) – these instructions.

Note \$ARCHOME refers to the path to ArcInfo as in "D:\ESRI\ARCEXE80\"

**Arc/Info Markerset Special Note:** Arc/Info markersets are limited to a maximum of 999 component symbol layers. With the large number of routes in some states, in those cases it was necessary to use two markersets for each shield series. While it will be inconvenient to have to work with first one and then the other markerset, there is no way around this at this time, short of dropping some route numbers or their variants.

### WINTEL PLATFORM =====

STEP 1 COPY THE FONTS to the directory of the font library you will use. This may be \$ARCHOME\FONTS or some other directory.

STEP 2 COPY THE .MRK files to the directory from which you wish to load them while in ArcInfo. ESRI's .MRKS are normally are stored in \$ARCHOME\SYMBOLS. You may use this or some other directory.

STEP 3 LOAD THE FONTS. At the ARC prompt type AP to start ArcPlot and then type in FONTLOAD. In the FONT LOADER form, make the following set of entries:

Font Type:	TRUETYPE
Library:	The path to font library you are using
Number:	The Font Number corresponding to the font now being loaded (see the READxx.TXT file) NOTE: do not change these numbers.
Fontname:	The name of the font now being loaded (see the READxx.txt file)

Press ACCEPT after completing the entries for one font.

Repeat the above Step 3 actions for each additional font to be loaded.

When all fonts have been loaded, press SAVE.

To check that the installation went smoothly, do the following from ArcPlot:

```
DISPLAY 9999
MARKERSET (name of the markerset to be made the current set)
SYMBOLDUMP MARKER SCREEN
```

This will display the markers on the screen.

**UNIX PLATFORM =====**

Data Deja View does not have UNIX platforms available for testing these markers and cannot offer installation instructions or other guidance. However, these markersets "should" install in the same manner as used for ESRI markersets. We would be interested in hearing of the experiences of UNIX users who do try these markersets.

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**ArcGIS 8 Desktop INSTALLATION INSTRUCTIONS**

=====

After extraction there will be three classes of files:

- |                              |   |
|------------------------------|---|
| TRUE TYPE FONTS: DDVxxxx.TTF | Marker sets will always have at least one font and may have thirty or more. (e.g.: DDVCA01D.TTF, DDVMAP1B.TTF). |
| STYLESETS: DDVxxxx.Style     | Marker sets will have four or more style files.   |
| INSTRUCTIONS: XXinstall.PDF  | This document.  |

**WINTEL PLATFORM ONLY =====**

**IMPORTANT:** Make sure that ArcGIS Desktop is CLOSED before installing the fonts. Once ArcGIS is open, it may not recognize newly loaded fonts until it is closed and then opened again.

**STEP 1 INSTALL THE FONT(S)** – ESRI font installation instructions indicate that ArcGIS will recognize all fonts placed in the system font folder (typically C:\WINNT\FONTS). Data Deja View has successfully used fonts placed elsewhere by installing them with Adobe Type Manager (ATM).

**STEP 2 INSTALL THE STYLE(S)** – The .Style files may be placed in any directory (folder).

**STEP 3 LOAD STYLE(S)** - Open ArcMap and navigate as follows to load styles.

Tools menu -> Styles -> Style Manager

This will invoke the Style Manager window. In the upper right corner, click on the Styles button. From the drop down menu that appears, choose Add (near the bottom of the drop down). An Open dialog box appears. Use it to navigate to the directory where you placed the style files. Select the desired style and click on the Open button. The Style will now appear in the left hand window of the Style Manager, indicating that it is active in this ArcMAP session.

**NOTE:** If you have installation problems, please refer to the Troubleshooting section below.

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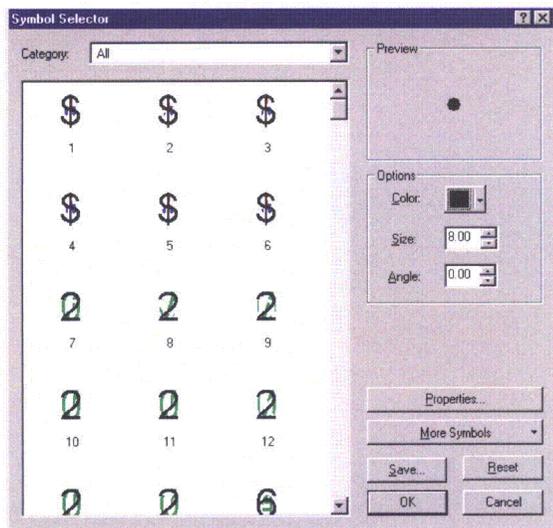
## Troubleshooting:

---

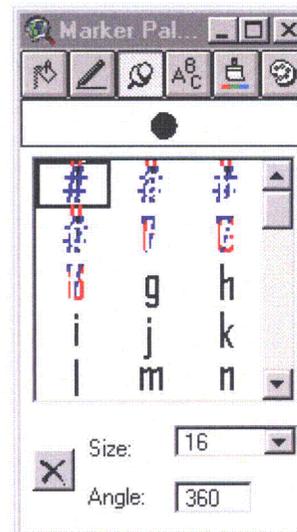
---

**Problems With Initial Installation:** People frequently experience problems with font installation for ArcView 3.x and ArcGIS 8.x. This occurs with ESRI fonts, Data Deja View (DDV) fonts and other custom fonts and has been experienced in Win 95, Win 98, Win NT and Win2000. DDV fully expects to see the problem continue in Win XP. It is evidenced by alphanumeric and special character symbols appearing instead of the expected marker symbols (see examples below). In most cases the appearance of these "weird" characters is due to a failure of the Windows operating system to properly register the font(s).

### Typical Appearance of Marker Symbols When Font Installation Problems Occur



ArcGIS 8.x Style Manager



ArcView 3.x Palette Manager

**First Line of Troubleshooting:** Make sure that ArcView 3.x and ArcGIS 8.x are closed. Then open up the Control Panel's Fonts folder and look to see if the fonts show up.

Start --> Control Panel --> Fonts

On slower machines you may sometimes notice that the fonts aren't there, but that the screen repaints and the missing fonts suddenly appear. Most of the time that this occurs, the fonts are now properly registered. However, on fast machines you probably won't have a chance to see whether they are there or not before the repaint is completed.

If the fonts (TTF files) are not there, try installing them using the Font folder's Install New Fonts option:

Fonts → File → Install New Fonts

If the fonts are there (or you are not sure whether they only appeared after a screen repaint), select and delete the font(s) and then install them again from the Font folder.

Now open up ArcView 3.x and/or ArcGIS 8.x and try loading the palette or style again. Chances are that things will now work properly.

**Second Line of Troubleshooting:** Check that you have the proper fonts for the palette/style series you are trying to use (refer to the lists included in this document). The font and palette versions must match. If you have only the fonts from an old marker set version installed and try to load the palette from a new version, the "weird" characters will show up (and vice versa).

E.g., installing DDVWY01B.TTF, DDVWY02B.TTF and DDVWY03B.TTF and then loading palette DDVWY01C.AVP won't work because they were generated from different updates and the palette is hard coded with the names of the fonts it expects to use.

**Third Line of Troubleshooting:** If there is another computer available to you with the appropriate software on it, try installing the fonts on that machine and see if the palette/style will load successfully there. If so, contact your system administrator or IT department for assistance. There is likely an operating system problem.

**If You Still Can't Get Things to Work:** Make note of what happened in the above troubleshooting steps and contact DDV, including this information. We will attempt to address any problems resulting from our end. In doing this we may ask you to send the fonts and palettes/styles that won't install back to DDV for analysis.

**Other Troubleshooting Help:** The ESRI online discussion groups, ArcView-L and ESRI-L have from time to time covered this topic and occasionally have found different causes and solutions. Please try looking back at older postings and/or in the archives before posting your own message. Seeing the same questions posted repeatedly does get rather old quickly.

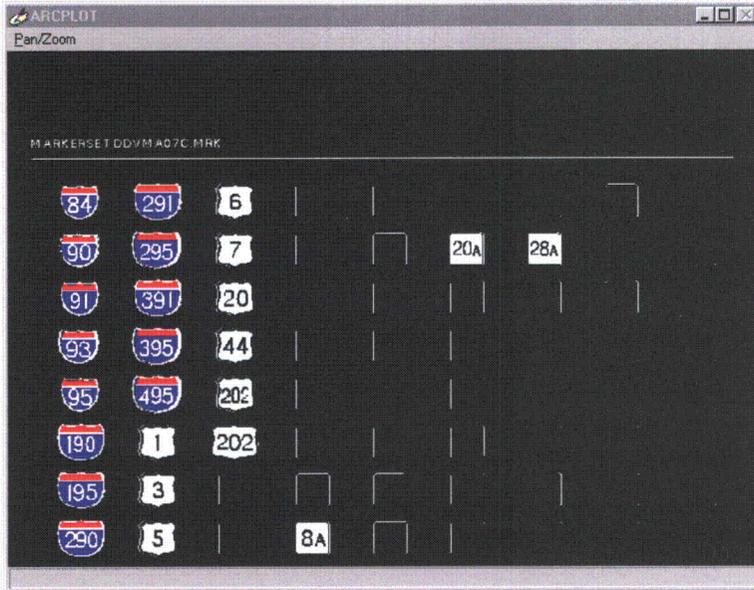
**The Magic Approach:** Some time ago ESRI technical support indicated that some people were supposedly able to cure the problem by opening file manager or explorer and dragging the fonts to another directory and then immediately dragging them back again. (It's likely they were working with all fonts installed in the WINNT/FONTS directory or its equivalent in another Windows OS.) If you try this it might help to put a black cat on top of the monitor (then again it might not).

**Markers Stop Working Properly:** If marker sets that used to load successfully suddenly start to show up as "weird" characters, the font has somehow been deleted or lost registration on the system. Follow the above steps to correct the problem.

**Print Problems Involving Markers:** DDV does not have the resources to be able to successfully deal with most printing problems. The following is passed along as an observation only. In December 2001, this site started to occasionally experience situations where marker symbols showed up correctly on the screen in ArcView 3.x and ArcGIS 8, but in the middle of printing suddenly partially reverted to "weird" characters. Reprints of the same pages always resulted in all marker symbols printing correctly. This occurred in a peer-to-peer Ethernet environment with the GIS client and print server both running NT 4.0 with SP 6a.

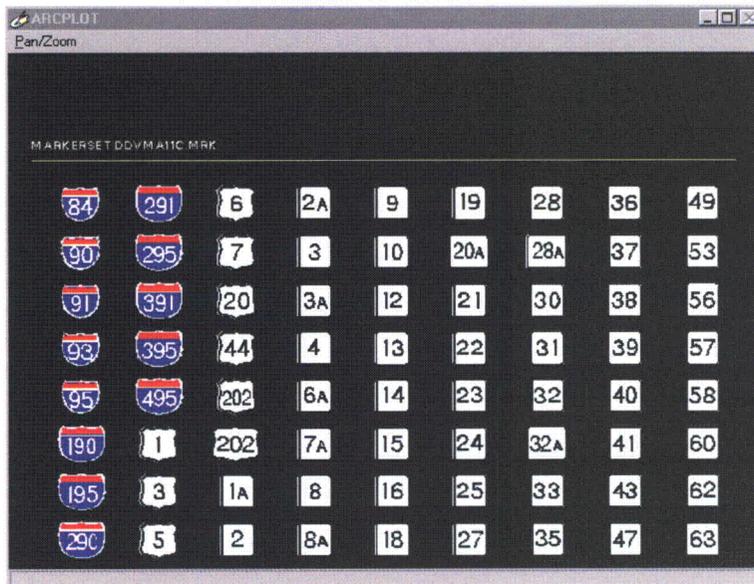
**PROBLEM UPDATE:** Since the problem was first included in this documentation, the print server suffered an unrecoverable hard disk crash for the "C" drive. After the disk was replaced and the operating system and updated print drivers installed, print submission on the client workstation was noted to take longer, however the "weird" symbols did not reoccur. This would seem to verify that it was not an application problem.

**ArcPlot Screen Viewing Problems:** For screen displays, Arc/Info workstation apparently cannot handle as fine a level of detail within font characters as can ArcView 3.x and ArcGIS 8.x. The examples below compare screen views from a marker design with a closely spaced double line border to that of the same font characters after the double line was converted to a single line. All symbols from both marker designs successfully print out (although with smaller size markers and low resolution printers the double line border may appear to print as a single line).



ArcPlot Screen Display for Markerset DDVMA07C and Sample Symbol Printout

In the above example all the state highway symbols have the same border design. Why a few of them show while most others do not is unknown.



ArcPlot Screen Display for Markerset DDVMA09C and Sample Symbol Printout

Data Deja View believes that the benefits that can be derived from use of symbols with the detailed features included in some DDV marker symbol designs outweighs this drawback, since it is limited to ArcPlot screen display (and other symbol designs within the same set do not exhibit the problem).

**Avoiding Font Problems:** If you start having problems with fonts, DDV recommends the use of Adobe Type Manager (ATM). This software is relatively inexpensive and has cured a number of font related problems at this site. Since starting to use ATM the only times that initial font registration problems have occurred here are when fonts failed to register properly when installed as part of a software installation (i.e.; the fonts were loaded by the application software, not through ATM).

ATM also cured interminable repainting of all on-screen icons and associated slow downs or hang-ups when the system already had a large number of fonts installed and Control Panel's font manager was used to install additional fonts.

DDV is not aware of anyone who has had font install problems while using ATM, but would appreciate hearing the circumstances surrounding any failures with its use.

=====

**USER FEEDBACK:**

=====

Data Deja View solicits feedback about its products, especially in the following areas:

**COMPLETENESS** - If highway shields for Interstate, US or State routes are missing we would like to know about it. If time allows, corrections and additions will be incorporated. If there are lower levels of roads that are really important for large regions of a state they will be considered, but will have to be given a lower priority. **We are ESPECIALLY INTERESTED IN FEEDBACK FROM STATE DOT's.**

**SHIELD QUALITY** - We would like your opinion as to the quality of these shields. They aren't intended to be perfect, but we do want them to be useful.

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**CONTACT INFORMATION:**

=====

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Data Deja View  
2113 8<sup>th</sup> Street  
Cody, WY 82414

E-Mail: [ddvgis@myavista.com](mailto:ddvgis@myavista.com) \*

Phone: 307-587-6667  
Monday thru Friday  
8am to 5pm Mtn time.

\* Note: DDV's e-mail address may soon change.  
Check ArcScripts to ensure getting the  
current, valid address.



**END OF DOCUMENT**

**PRE-NUMBERED SOUTH CAROLINA HIGHWAY SHIELDS**  
Incorporating Series IIa Shield Designs

Version "B" Update 04/17/02

**Marker Symbols by Data Deja View**  
for:  
**Workstation Arc/Info, ArcView 3.x,  
and ArcGIS 8.x Desktop**

This set contains several styles of highway route signs with pre-numbered shields for:

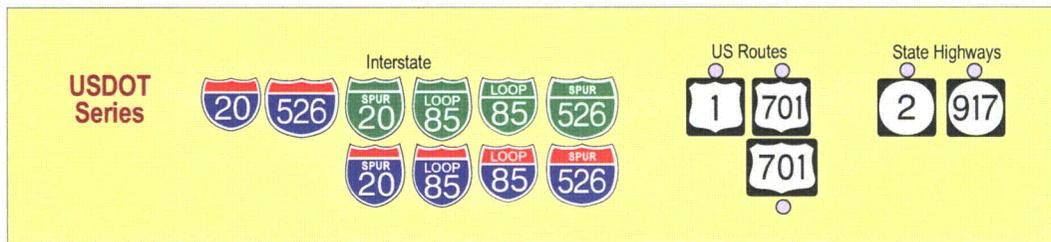
- 12 Interstate Highways
- 32 US Highways
- 239 State Highways

**Legend for User Changeable Shield Color Layers**

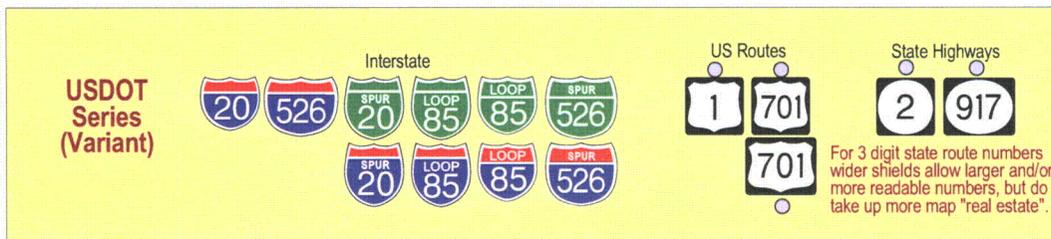
- = Changeable Foreground Color (shown in black or gray)
- = Changeable Background Color (shown in white)

**SPECIAL NOTE:** BLUE ITEMS below are planned, but may not become available (check in ArcScripts).

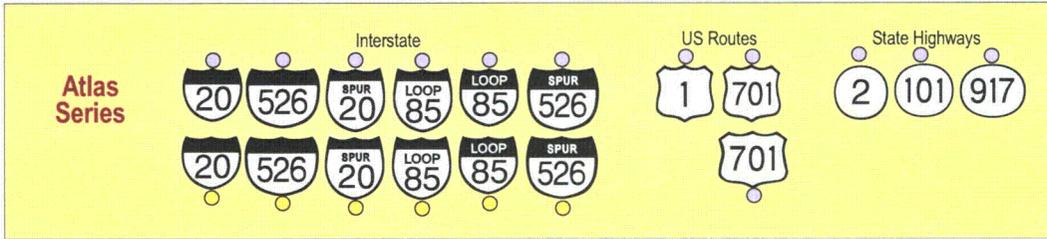
It is only necessary to install the specific series that you will be using. The following descriptions indicate which fonts and which markersets, palettes and/or styles must be installed for each series.



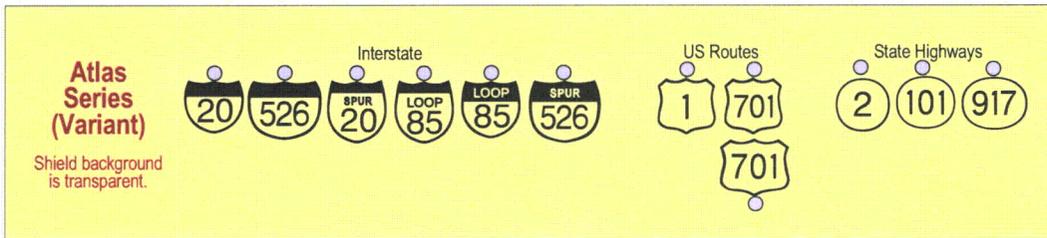
FONT#	FONTNAME	MARKERSET	PALETTE	STYLE
(ArcInfo)	(ArcInfo)	(ArcInfo)	(ArcView)	(ArcGIS 8)
74001	DDVSC01B	DDVSC01B.MRK	DDVSC01B.AVP	DDVSC01B.Style
74002	DDVSC02B			
74003	DDVSC03B			



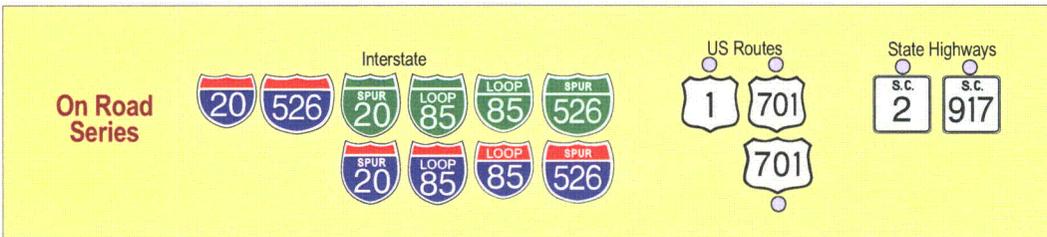
FONT#	FONTNAME	MARKERSET	PALETTE	STYLE
(ArcInfo)	(ArcInfo)	(ArcInfo)	(ArcView)	(ArcGIS 8)
74004	DDVSC04B	DDVSC04B.MRK	DDVSC04B.AVP	DDVSC04B.Style
74005	DDVSC05B			
74006	DDVSC06B			



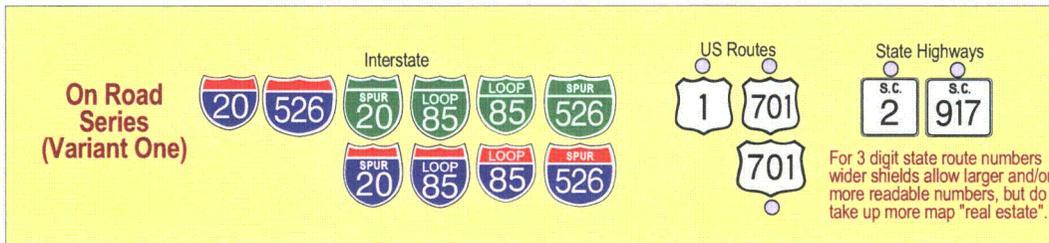
FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVSC07B.TTF	74007	DDVSC07B	DDVSC07B.MRK	DDVSC07B.AVP	DDVSC07B.Style
DDVSC08B.TTF	74008	DDVSC08B			
DDVSC09B.TTF	74009	DDVSC09B			



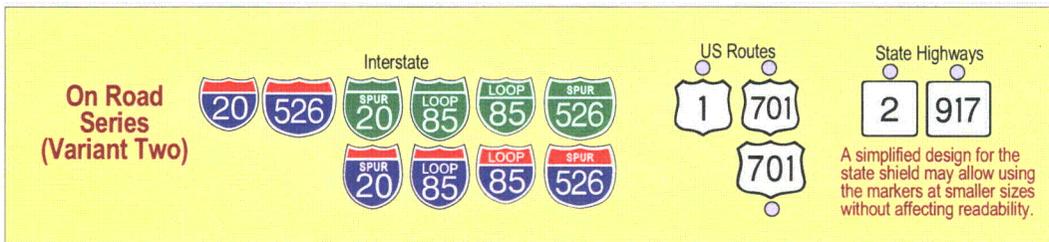
FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVSC07B.TTF	74007	DDVSC07B	DDVSC08B.MRK	DDVSC08B.AVP	DDVSC08B.Style
DDVSC08B.TTF	74008	DDVSC08B			
DDVSC09B.TTF	74009	DDVSC09B			



FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVSC10B.TTF	74010	DDVSC10B	DDVSC10B.MRK	DDVSC10B.AVP	DDVSC10B.Style
DDVSC11B.TTF	74011	DDVSC11B			
DDVSC12B.TTF	74012	DDVSC12B			



FONT#	FONTNAME	MARKERSET	PALETTE	STYLE	
(ArcInfo)	(ArcInfo)	(ArcInfo)	(ArcView)	(ArcGIS 8)	
DDVSC13B.TTF	74013	DDVSC13B	DDVSC13B.MRK	DDVSC13B.AVP	DDVSC13B.Style
DDVSC14B.TTF	74014	DDVSC14B			
DDVSC15B.TTF	74015	DDVSC15B			



FONT#	FONTNAME	MARKERSET	PALETTE	STYLE	
(ArcInfo)	(ArcInfo)	(ArcInfo)	(ArcView)	(ArcGIS 8)	
DDVSC16B.TTF	74016	DDVSC16B	DDVSC16B.MRK	DDVSC16B.AVP	DDVSC16B.Style
DDVSC17B.TTF	74017	DDVSC17B			
DDVSC18B.TTF	74018	DDVSC18B			

=====

**VERSION "B" PARTICULARS**

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**Updated:** April 17, 2002

**New Roads:** No new route numbers have been added.

**Shield Design Changes:** Alignment of some shield series was improved.

**Font Changes:** To realize good marker alignment with ArcGIS 8 Desktop, some adjustment of existing font characters was required. Desktop 8 interacts with fonts in additional ways that are not a consideration in either ArcView 3.x or Arc/Info.

=====

## ArcView 3.x INSTALLATION INSTRUCTIONS

=====

NOTE: These instructions assume you temporarily saved the WinZip file in your C:\TEMP directory and unzipped the files in that location. Substitute paths as appropriate to your system and file names according to the file set you received. Instructions assume a WIN 95, WIN 2000 or NT 4.0 installation (action with WIN XP should be similar). C:\TEMP should now contain the following:

After extraction there will be three classes of files:

TRUE TYPE FONTS: DDVxxxx.TTF Marker sets will always have at least one font and may have thirty or more. (e.g.: DDVCA01D.TTF, DDVMAP1B.TTF).

ARCVIEW PALETTES: DDVxxxx.AVP Marker sets will have four or more palettes.

XXinstall.DOC (or possibly .HTM or .PDF) – these instructions.

Note that \.....\ refers to the path where ArcView as installed. For example "D:\ESRI\AV\_GIS31\ARCVIEW"

### WINTEL PLATFORM =====

IMPORTANT: Make sure that ArcView is CLOSED before installing the fonts. Once Arcview is open, it doesn't recognize any newly loaded fonts until it is closed and then opened again. This may seem basic, but it has been the "gotcha" for lot of people.

STEP 1 INSTALL THE FONT - Navigate as follows:

Start -> Settings -> Control Panel -> Fonts -> File -> Install New Font

When prompted navigate to C:\TEMP and the names of the true type font(s) should appear. Select DDVxxxx (True Type). Also select the any other fonts included in this set of symbols. Press OK.

STEP 2 INSTALL THE PALETTE - Using Explorer or File Manager copy DDVxxxx.AVP to \.....\SYMBOLS.

STEP 3 LOAD PALETTE(S) - Now its okay to open ArcView. Load the palettes:

Window menu -> Show Symbol Window -> Palette Manager -> Load

This will invoke the Load Palette dialog. Navigate to \.....\SYMBOLS and select DDVxxxx.AVP. Don't worry if the load takes somewhat longer than for other palettes; that's normal.

The DDVxxxx symbols should now appear under Markers after any already loaded marker sets.

STEP 4 Use them ! ... and hopefully produce your Layouts a little more quickly.

**NOTE: If you have installation problems, please refer to the Troubleshooting section below.**

## UNIX PLATFORM =====

Data Deja View has only tested markers on one UNIX platform. The good news is that the markers installed successfully. The bad news is that UNIX ArcView does not put together composite markers the same way as WinTel ArcView. Some layer misalignments may be so severe that the marker is not useable. Markers with all color layers about the same size don't seem to exhibit this problem and appear to be useable.

With DDV series Ila shield designs, users may now see a decrease in UNIX alignment problems.

**IMPORTANT:** Make sure that ArcView is CLOSED before installing the fonts. Once Arcview is open, it doesn't recognize any newly loaded fonts until it is closed and then opened again. This may seem basic, but it has been the "gotcha" for lot of people.

And as with all UNIX systems "Don't forget your permissions!"

STEP 1 - Copy all the fonts to the font directory under ArcView. In the system tested by DDV this directory path was:

```
/usr/esri/arcview3/fonts
```

STEP 2 - Copy all the palettes to the symbols directory under ArcView. In the tested system this directory path was:

```
/usr/esri/arcview3/symbols
```

STEP 3 - Edit the "font.ndx" file to add entries for the new fonts. In the tested system the path to this directory was:

```
/usr/esri/arcview3/etc/font.ndx
```

Sample entries used for two DDV fonts are as follows:

```
TRUETYPE 990004 $AVHOME/fonts/ddvhazib.ttf 990004
TRUETYPE ddvhaz1b
  NAME = ddvhaz1b
  FAMILY = ddvhaz1b
  STYLE = Normal
```

```
TRUETYPE 990005 $AVHOME/fonts/ddvvt01c.ttf 990005
TRUETYPE ddvvt01c
  NAME = ddvvt01c
  FAMILY = ddvvt01c
  STYLE = Normal
```

STEP 4 - Open up ArcView and hopefully enjoy (at least some) of these custom symbols.

**NOTE:** Some UNIX flavors may need additional coaxing and coddling. See your (hopefully friendly and available) UNIX administrators.

=====

## Arc/Info 7.x/8.x INSTALLATION INSTRUCTIONS

=====

After extraction there will be three classes of files:

TRUE TYPE FONTS: DDVxxxx.TTF    Marker sets will always have at least one font and may have thirty or more. (e.g.: DDVCA01D.TTF, DDVMAP1B.TTF).

ARCVIEW PALETTES: DDVxxxx.MRK    Markersets will have four or more palettes. These must be installed using FONTLOAD and the Font Numbers shown in the tables at the beginning of this document must be used

XXinstall.DOC (or possibly .HTM or .PDF) – these instructions.

Note \$ARCHOME refers to the path to ArcInfo as in "D:\ESRI\ARCEXE80\"

**Arc/Info Markerset Special Note:** Arc/Info markersets are limited to a maximum of 999 component symbol layers. With the large number of routes in some states, in those cases it was necessary to use two markersets for each shield series. While it will be inconvenient to have to work with first one and then the other markerset, there is no way around this at this time, short of dropping some route numbers or their variants.

### WINTEL PLATFORM =====

STEP 1 COPY THE FONTS to the directory of the font library you will use. This may be \$ARCHOME\FONTS or some other directory.

STEP 2 COPY THE .MRK files to the directory from which you wish to load them while in ArcInfo. ESRI's .MRKS are normally are stored in \$ARCHOME\SYMBOLS. You may use this or some other directory.

STEP 3 LOAD THE FONTS. At the ARC prompt type AP to start ArcPlot and then type in FONTLOAD. In the FONT LOADER form, make the following set of entries:

Font Type:	TRUETYPE
Library:	The path to font library you are using
Number:	The Font Number corresponding to the font now being loaded (see the READxx.TXT file) NOTE: do not change these numbers.
Fontname:	The name of the font now being loaded (see the READxx.txt file)

Press ACCEPT after completing the entries for one font.

Repeat the above Step 3 actions for each additional font to be loaded.

When all fonts have been loaded, press SAVE.

To check that the installation went smoothly, do the following from ArcPlot:

```
DISPLAY 9999
MARKERSET (name of the markerset to be made the current set)
SYMBOLDUMP MARKER SCREEN
```

This will display the markers on the screen.

**UNIX PLATFORM** =====

Data Deja View does not have UNIX platforms available for testing these markers and cannot offer installation instructions or other guidance. However, these markersets "should" install in the same manner as used for ESRI markersets. We would be interested in hearing of the experiences of UNIX users who do try these markersets.

=====

**ArcGIS 8 Desktop INSTALLATION INSTRUCTIONS**

=====

After extraction there will be three classes of files:

TRUE TYPE FONTS: DDVxxxx.TTF	Marker sets will always have at least one font and may have thirty or more. (e.g.: DDVCA01D.TTF, DDVMAP1B.TTF).
STYLESETS: DDVxxxx.Style	Marker sets will have four or more style files.
INSTRUCTIONS: XXinstall.PDF	This document.

**WINTEL PLATFORM ONLY** =====

**IMPORTANT:** Make sure that ArcGIS Desktop is CLOSED before installing the fonts. Once ArcGIS is open, it may not recognize newly loaded fonts until it is closed and then opened again.

**STEP 1 INSTALL THE FONT(S)** – ESRI font installation instructions indicate that ArcGIS will recognize all fonts placed in the system font folder (typically C:\WINNT\FONTS). Data Deja View has successfully used fonts placed elsewhere by installing them with Adobe Type Manager (ATM).

**STEP 2 INSTALL THE STYLE(S)** – The .Style files may be placed in any directory (folder).

**STEP 3 LOAD STYLE(S)** - Open ArcMap and navigate as follows to load styles.

Tools menu -> Styles -> Style Manager

This will invoke the Style Manager window. In the upper right corner, click on the Styles button. From the drop down menu that appears, choose Add (near the bottom of the drop down). An Open dialog box appears. Use it to navigate to the directory where you placed the style files. Select the desired style and click on the Open button. The Style will now appear in the left hand window of the Style Manager, indicating that it is active in this ArcMAP session.

**NOTE: If you have installation problems, please refer to the Troubleshooting section below.**

---

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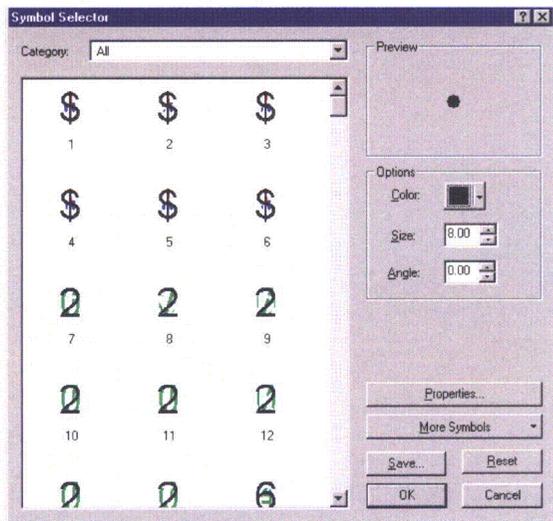
## Troubleshooting:

---

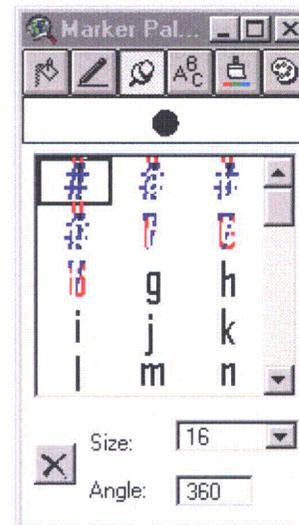
---

**Problems With Initial Installation:** People frequently experience problems with font installation for ArcView 3.x and ArcGIS 8.x. This occurs with ESRI fonts, Data Deja View (DDV) fonts and other custom fonts and has been experienced in Win 95, Win 98, Win NT and Win2000. DDV fully expects to see the problem continue in Win XP. It is evidenced by alphanumeric and special character symbols appearing instead of the expected marker symbols (see examples below). In most cases the appearance of these "weird" characters is due to a failure of the Windows operating system to properly register the font(s).

### Typical Appearance of Marker Symbols When Font Installation Problems Occur



ArcGIS 8.x Style Manager



ArcView 3.x Palette Manager

**First Line of Troubleshooting:** Make sure that ArcView 3.x and ArcGIS 8.x are closed. Then open up the Control Panel's Fonts folder and look to see if the fonts show up.

Start --> Control Panel --> Fonts

On slower machines you may sometimes notice that the fonts aren't there, but that the screen repaints and the missing fonts suddenly appear. Most of the time that this occurs, the fonts are now properly registered. However, on fast machines you probably won't have a chance to see whether they are there or not before the repaint is completed.

If the fonts (TTF files) are not there, try installing them using the Font folder's Install New Fonts option:

Fonts → File → Install New Fonts

If the fonts are there (or you are not sure whether they only appeared after a screen repaint), select and delete the font(s) and then install them again from the Font folder.

Now open up ArcView 3.x and/or ArcGIS 8.x and try loading the palette or style again. Chances are that things will now work properly.

**Second Line of Troubleshooting:** Check that you have the proper fonts for the palette/style series you are trying to use (refer to the lists included in this document). The font and palette versions must match. If you have only the fonts from an old marker set version installed and try to load the palette from a new version, the "weird" characters will show up (and vice versa).

E.g., installing DDVWY01B.TTF, DDVWY02B.TTF and DDVWY03B.TTF and then loading palette DDVWY01C.AVP won't work because they were generated from different updates and the palette is hard coded with the names of the fonts it expects to use.

**Third Line of Troubleshooting:** If there is another computer available to you with the appropriate software on it, try installing the fonts on that machine and see if the palette/style will load successfully there. If so, contact your system administrator or IT department for assistance. There is likely an operating system problem.

**If You Still Can't Get Things to Work:** Make note of what happened in the above troubleshooting steps and contact DDV, including this information. We will attempt to address any problems resulting from our end. In doing this we may ask you to send the fonts and palettes/styles that won't install back to DDV for analysis.

**Other Troubleshooting Help:** The ESRI online discussion groups, ArcView-L and ESRI-L have from time to time covered this topic and occasionally have found different causes and solutions. Please try looking back at older postings and/or in the archives before posting your own message. Seeing the same questions posted repeatedly does get rather old quickly.

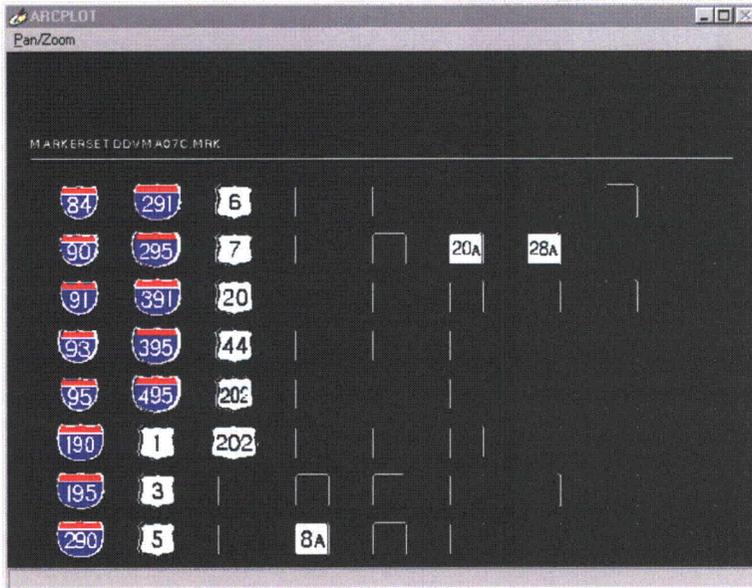
**The Magic Approach:** Some time ago ESRI technical support indicated that some people were supposedly able to cure the problem by opening file manager or explorer and dragging the fonts to another directory and then immediately dragging them back again. (It's likely they were working with all fonts installed in the WINNT/FONTS directory or its equivalent in another Windows OS.) If you try this it might help to put a black cat on top of the monitor (then again it might not).

**Markers Stop Working Properly:** If marker sets that used to load successfully suddenly start to show up as "weird" characters, the font has somehow been deleted or lost registration on the system. Follow the above steps to correct the problem.

**Print Problems Involving Markers:** DDV does not have the resources to be able to successfully deal with most printing problems. The following is passed along as an observation only. In December 2001, this site started to occasionally experience situations where marker symbols showed up correctly on the screen in ArcView 3.x and ArcGIS 8, but in the middle of printing suddenly partially reverted to "weird" characters. Reprints of the same pages always resulted in all marker symbols printing correctly. This occurred in a peer-to-peer Ethernet environment with the GIS client and print server both running NT 4.0 with SP 6a.

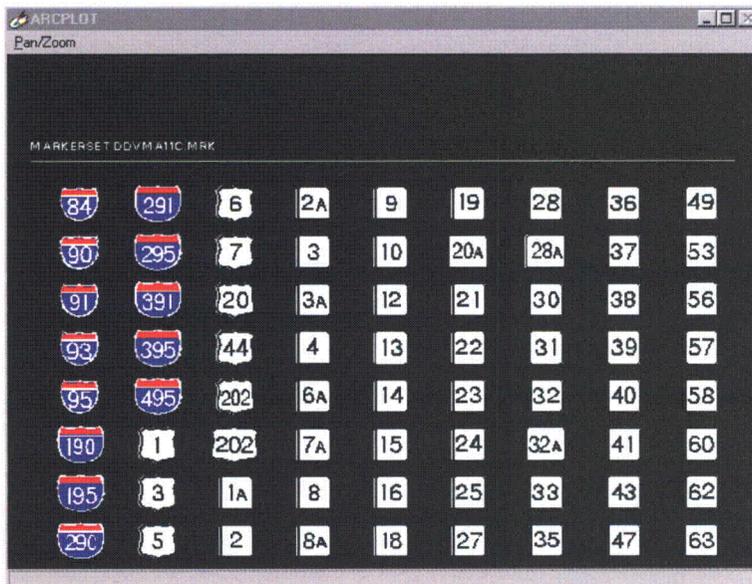
**PROBLEM UPDATE:** Since the problem was first included in this documentation, the print server suffered an unrecoverable hard disk crash for the "C" drive. After the disk was replaced and the operating system and updated print drivers installed, print submission on the client workstation was noted to take longer, however the "weird" symbols did not reoccur. This would seem to verify that it was not an application problem.

**ArcPlot Screen Viewing Problems:** For screen displays, Arc/Info workstation apparently cannot handle as fine a level of detail within font characters as can ArcView 3.x and ArcGIS 8.x. The examples below compare screen views from a marker design with a closely spaced double line border to that of the same font characters after the double line was converted to a single line. All symbols from both marker designs successfully print out (although with smaller size markers and low resolution printers the double line border may appear to print as a single line).



ArcPlot Screen Display for Markerset DDVMA07C and Sample Symbol Printout

In the above example all the state highway symbols have the same border design. Why a few of them show while most others do not is unknown.



ArcPlot Screen Display for Markerset DDVMA09C and Sample Symbol Printout

Data Deja View believes that the benefits that can be derived from use of symbols with the detailed features included in some DDV marker symbol designs outweighs this drawback, since it is limited to ArcPlot screen display (and other symbol designs within the same set do not exhibit the problem).

**Avoiding Font Problems:** If you start having problems with fonts, DDV recommends the use of Adobe Type Manager (ATM). This software is relatively inexpensive and has cured a number of font related problems at this site. Since starting to use ATM the only times that initial font registration problems have occurred here are when fonts failed to register properly when installed as part of a software installation (i.e.; the fonts were loaded by the application software, not through ATM).

ATM also cured interminable repainting of all on-screen icons and associated slow downs or hang-ups when the system already had a large number of fonts installed and Control Panel's font manager was used to install additional fonts.

DDV is not aware of anyone who has had font install problems while using ATM, but would appreciate hearing the circumstances surrounding any failures with its use.

=====

**USER FEEDBACK:**

=====

Data Deja View solicits feedback about its products, especially in the following areas:

**COMPLETENESS** - If highway shields for Interstate, US or State routes are missing we would like to know about it. If time allows, corrections and additions will be incorporated. If there are lower levels of roads that are really important for large regions of a state they will be considered, but will have to be given a lower priority. **We are ESPECIALLY INTERESTED IN FEEDBACK FROM STATE DOT's.**

**SHIELD QUALITY** - We would like your opinion as to the quality of these shields. They aren't intended to be perfect, but we do want them to be useful.

=====

**CONTACT INFORMATION:**

=====

Jim Mossman  
Data Deja View  
2113 8<sup>th</sup> Street  
Cody, WY 82414

E-Mail: [ddvgis@myavista.com](mailto:ddvgis@myavista.com) \*

Phone: 307-587-6667  
Monday thru Friday  
8am to 5pm Mtn time.

\* Note: DDV's e-mail address may soon change.  
Check ArcScripts to ensure getting the  
current, valid address.



**END OF DOCUMENT**



TAX PROPERTY OWNERS WITHIN THE 2 MILE RADIUS

FAIRFIELD COUNTY

- 193-00-01-043 LOUISE C. MOSELEY, ET AL
- 193-00-01-044 RRS J. HOWELL
- 193-00-01-046 EDWARD EARL BOURKNIGHT
- 193-00-01-048 JAMMIE L. HACKETT, ET AL
- 193-00-01-061 LARRY D. THOMPSON & CAROL B. THOMPSON
- 193-00-01-063 JOHNNIE W. JOYNER & CONSTANCE A. JOYNER
- 193-00-01-064 MARTHA CECILIA WHITE MCINTYRE
- 193-00-01-068 BENJAMIN F. CARPENTER & SANDRA TANE CARPENTER
- 193-00-01-070 BENJAMIN F. CARPENTER & SANDRA TANE CARPENTER
- 193-00-01-071 EMBERTHA ZIMMERMAN
- 193-00-01-072 LOUISE MOSELEY
- 193-00-01-073 LOUISE C. MOSELEY
- 193-00-01-074 MAGGIE LOUISE BOYD
- 193-00-01-075 WALTER L. MARTIN
- 193-00-01-077 GORDS W. MAUNSCHE
- 193-00-01-079 MICKY L. MINCEY & SUSAN H. MINCEY
- 193-00-01-080 JACKIE MINCEY & BRENDA MINCEY
- 193-00-01-081 CATHERINE P. MARTIN
- 193-00-03-043 LINDA B. GRIFFIN & RICHARD S. GRIFFIN
- 193-00-03-045 TRUSTEES FOR PRINCE & DELIVERANCE TEMPLE
- 193-00-03-046 JENNIE V. HARPER & CURTIS L. MARTIN, TRUSTEES
- 193-00-03-083 TIMOTHY M. ROSEBOROUGH & MYRA N. ROSEBOROUGH
- 193-00-03-085 CURTIS L. MARTIN, ET AL
- 193-00-03-088 SHELTON STERLING LANEY, ET AL
- 207-00-01-001 WALKER MARTIN, JR. & CORA LEE WALKER
- 207-00-01-004 DAVID T. MARTIN
- 207-00-01-005 MADELINE CAROL HARPER FORD, ET AL
- 207-00-01-006 DAVID T. MARTIN
- 207-00-01-007 EUGENE WILLINGHAM
- 207-00-01-008 MAMIE M. KING
- 207-00-01-009 ERNEST WILLINGHAM, ET AL
- 207-00-01-010 GILBERT HARPER, TRUSTEE
- 207-00-01-011 ALEX J. HARPER
- 207-00-01-012 JAMES E. PEARSON, JR.
- 207-00-01-013 BESSIE MARTIN
- 207-00-01-014 SCEAG
- 207-00-01-015 MORRIS PETER MARTIN EST.
- 207-00-01-016 VERA J. BYRD, LIFE EST.
- 207-00-01-017 JANIE K. HENDERSON GAMBRELL
- 207-00-01-018 ANGELA GINYARD
- 207-00-01-019 HARVEST D. CRUMPTON & MINNIE L. CRUMPTON
- 207-00-01-020 CATHERINE W. MILLS
- 207-00-01-021 MARY A. CARTER
- 207-00-01-022 ANDREW WILSON & EDDIE MAE WILSON
- 207-00-01-023 EZZEL SUMMERS
- 207-00-01-024 JOHN E. WHITE & MARY M. WHITE
- 207-00-01-025 ROGER S. JENNINS, SR.
- 207-00-01-026 WALTER WOODLEY
- 207-00-01-027 GERALD L. MILLS
- 207-00-01-028 MARTHA L. GINYARD
- 207-00-01-029 JOHN B. HARPER & DIANE J. HARPER
- 207-00-01-030 JAMES EDDIE BURNS & FRANCES P. MAE
- 207-00-01-031 E. J. & CLEOPHES HARPER, LIFE EST.
- 207-00-01-032 SANDI GREEN
- 207-00-01-033 JENNIFER SHIVER
- 207-00-01-034 CHARLES HARPER & HARRIET HARPER
- 207-00-01-035 JENNIFER M. HARPER
- 207-00-01-036 THELMA G. WHITFIELD
- 207-00-01-037 RUTH G. ANDREWS
- 207-00-01-038 SILAS CRUMPTON
- 207-00-01-039 STEVE A. SANDERS & BRENDA SANDERS
- 207-00-01-040 SILAS CRUMPTON
- 207-00-01-041 DONALD G. KING & EDITH W. KING
- 207-00-01-042 RUDOLPH HARPER & LORETTA C. HARPER
- 207-00-01-043 RUFUS METZ & DOROTHY METZ
- 207-00-01-044 GILBERT HARPER
- 207-00-01-045 J. R. DOUGLAS
- 207-00-01-047 ROOSEVELT L. WHITE & CYNTHIA V. WHITE
- 207-00-01-048 CAROLINE G. GINYARD
- 207-00-01-049 JOHN H. GINYARD
- 207-00-01-050 RACQUEL N. STEWARD
- 207-00-01-051 MARILYN J. GINYARD & KENNETH GRIFFIN
- 207-00-01-052 SHIRLEY W. ROBINSON
- 207-00-01-053 WOODLANDS FOREST PRODUCTS, INC.
- 207-00-01-054 EDDIE MARTIN, JR. ET AL
- 207-00-01-055 GLADYS DOWD & BERNICE CURRY
- 207-00-01-056 VALERIA THOMPSON
- 207-00-01-059 JACOB N. MARTIN EST.
- 207-00-01-061 CURTIS L. MARTIN
- 207-00-01-062 BOBBY D. CHAPMAN
- 207-00-01-063 JOSEPHUS GAMBRELL & JANIE GAMBRELL
- 207-00-01-065 VALERIA M. THOMPSON, ET AL
- 207-00-01-066 VALERIA THOMPSON, ET AL
- 207-00-01-067 BARBARA P. CHARLES
- 207-00-01-068 DONAL BENNETT
- 207-00-01-069 JOHN WALKER HENDERSON, JR.

FAIRFIELD COUNTY (continued)

- 207-00-01-070 BARBARA ANN BOYD
- 207-00-01-071 VIOLETT W. PEARSON
- 207-00-01-072 JOHN WALKER HENDERSON, SR.
- 207-00-01-073 JOHN WALKER HENDERSON, SR.
- 207-00-01-074 MELVIN L. THOMPSON
- 207-00-01-075 ALBERT P. MARTIN
- 207-00-01-076 BETTY J. YOUNG
- 207-00-01-077 LOYDANNE P. GINYARD & EARLINE G. GINYARD
- 207-00-01-078 THANGA L. FEASTER
- 207-00-01-079 RICHARD W. BIERSTAFF
- 207-00-01-080 ANGELA GINYARD
- 207-00-01-081 JOSEPH D. MCBRIDE
- 207-00-01-082 CHARLES T. WRIGHT & DARELINE J. WRIGHT
- 207-00-01-083 MINNIE CRUMPTON
- 207-00-01-084 WILLIAM J. CHAPMAN, ET AL
- 207-00-01-085 DAVID T. MARTIN
- 207-00-02-001 JENKINSVILLE WATER CO., INC.
- 207-00-02-003 SANDRA LAWRENCE, ET AL
- 207-00-02-004 PALMER B. MARTIN
- 207-00-02-005 NATHAN HARPER
- 207-00-02-006 LUZZIE HARPER ESTATE, ET AL
- 207-00-02-007 CLARENCE R. HARPER, ET AL
- 207-00-02-008 PRINCE HARPER
- 207-00-02-009 RALPH W. HARPER
- 207-00-02-010 DAN & BARBARA W. JONES
- 207-00-02-016 ADRIAN J. GLENN
- 207-00-02-019 ADRIAN JOE GLENN, ET AL
- 207-00-02-020 VICTOR WILLINGHAM & PHYLLIS WILLINGHAM
- 207-00-02-021 VINCENT WILLINGHAM & CATHERINE P. WILLINGHAM
- 207-00-02-022 ANDRINA HARPER LAPSLEY
- 207-00-02-023 ALMETA HARPER CASSELL
- 207-00-02-024 RALPH W. HARPER
- 207-00-02-025 JUANITA JENKINS BURTON
- 207-00-02-027 VICTOR WILLINGHAM & VICENT WILLINGHAM
- 207-00-02-028 ANDRINA HARPER LAPSLEY
- 207-00-02-029 ALMETA HARPER CASSELL
- 207-00-02-030 WOODROW W. HARPER, JR.
- 207-00-02-031 SCEAG
- 220-00-00-003 SCEAG
- 220-00-00-004 VERA LOUISE WOOD & JOEL D. WOOD
- 220-00-00-005 BETTY SCOTT BELL, ET AL
- 220-00-00-006 SCEAG
- 220-00-00-007 SCEAG
- 220-00-00-008 JERRY B. RAWL & CALVIN C. CONNER, JR.
- 220-00-00-009 VERA LOUISE WOOD & JOEL D. WOOD
- 221-00-00-001 KEVIN CHAPMAN, ET AL
- 221-00-00-002 ROBERT C. HARPER, ET AL
- 221-00-00-003 PAUL H. SHELTON & LUDITH H. SHELTON
- 221-00-00-004 BOBBY D. STREET & DONNA W. STREET
- 221-00-00-008 TONY R. TAYLOR
- 221-00-00-011 KENNETH BURRIS
- 221-00-00-052 C. SCOTT BURRIS & ROBERT N. FULMER

NEWBERRY COUNTY

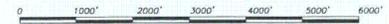
- 726-5 GERALD H. SMITH & JANE P. SMITH
- 728-6 HELEN M. SMITH
- 728-1 JOHNNY THEODORE RIDGLE
- 730-1 EVELYN STUCK NICHOLS
- 730-15 EDNA H. STUCK NICHOLS
- 730-20 STANLEY DRIFFIN
- 730-3 WILLIAM CHRISTOPHER JOHNSTON
- 730-4 WILIE MAE S. EARLE, ET AL
- 730-5 RONALD T. HOPE
- 730-6 RONALD T. HOPE
- 730-B-1 RONALD T. HOPE
- 730-7 RONALD T. HOPE
- 749-11 MARILYN L. WALKER
- 749-12 WILLIAM D. WALDROP, JR.
- 749-4 MARY REBECCA MILLER EST.

THESE PROPERTY LINES DERIVED ON THIS CONVEY DEEMED FROM AVAILABLE COUNTY TAX MAPS. THIS CONVEY IS NOT A PROPERTY BOUNDARY SURVEY. ALL PROPERTY LINE LOCATIONS SUBJECT TO FULL BOUNDARY SURVEY OF THE INTERESTED PARCELS. NO FIELD SURVEYS WERE PERFORMED FOR THIS CONVEY.

SOUTH CAROLINA ELECTRIC & GAS  
NEW NUCLEAR DEPLOYMENT  
TWO MILE RADIUS  
FAIRFIELD COUNTY AND NEWBERRY COUNTY  
SOUTH CAROLINA

PREPARED OCTOBER 12, 2006  
REVISED NOVEMBER 15, 2006

SCALE: 1 INCH = 1000 FEET



PREPARED BY GLENN ASSOCIATES SURVEYING, INC.  
P.O. BOX 12 JENKINSVILLE, S.C. 29065  
Telephone (803) 345-5297 www.glenncollaborates.com

MICHAEL R. MILLS: S.C.P.L.S. # 11606



PREPARED BY  
GLENN ASSOCIATES SURVEYING, INC.  
P.O. BOX 12 JENKINSVILLE, SOUTH CAROLINA 29065  
Telephone (803) 345-5297 or GLENNASSOCIATES.COM

## Identification\_Information:

## Citation:

## Citation\_Information:

## Originator:

Environmental Protection Agency, Office of Water/OST

Publication\_Date: 1998

## Title:

1:250,000 Scale Quadrangles of Landuse/Landcover

GIRAS Spatial Data of CONUS in BASINS

## Online\_Linkage:

USGS GIRAS users guide <http://edc2.usgs.gov/geodata/LULC/LULCDataUsersGui>  
BASINS model and data <http://www.epa.gov/waterscience/basins/>

## Description:

## Abstract:

This is land use/land cover digital data collected by USGS and converted to ARC/INFO by the EPA. This data which resides in EPA's Spatial Data Library (ESDLS), is useful for environmental assessment of land use patterns with respect to water quality analysis, growth management, and other types of environmental impact assessment. GIRAS LU/LC is being used in EPA's, Office of Water/OST BASINS water quality assessment model.

## Purpose:

To use the GIRAS landuse/landcover spatial data in BASINS.

## Time\_Period\_of\_Content:

## Time\_Period\_Information:

## Range\_of\_Dates/Times:

Beginning\_Date: 1977

Ending\_Date: 1980 (early 1980's)

Currentness\_Reference: publication date

## Status:

Progress: Complete

Maintenance\_and\_Update\_Frequency: unknown

## Spatial\_Domain:

## Bounding\_Coordinates:

West\_Bounding\_Coordinate: -125.0000

East\_Bounding\_Coordinate: -66.0000

North\_Bounding\_Coordinate: 50.0000

South\_Bounding\_Coordinate: 24.0000

## Keywords:

## Theme:

Theme\_Keyword\_Thesaurus: None

Theme\_Keyword: land

Theme\_Keyword: landuse

Theme\_Keyword: landcover

Theme\_Keyword: GIRAS

Theme\_Keyword: digital

Theme\_Keyword: geographic

## Place:

Place\_Keyword\_Thesaurus: Geographic Names Information System

Place\_Keyword: Conterminous United States of America (CONUS)

Place\_Keyword: Alabama AL

Place\_Keyword: Arizona AZ

Place\_Keyword: Arkansas AR

Place\_Keyword: California CA  
Place\_Keyword: Colorado CO  
Place\_Keyword: Connecticut CT  
Place\_Keyword: Delaware DE  
Place\_Keyword: District of Columbia DC  
Place\_Keyword: Florida FL  
Place\_Keyword: Georgia GA  
Place\_Keyword: Idaho ID  
Place\_Keyword: Illinois IL  
Place\_Keyword: Indiana IN  
Place\_Keyword: Iowa IA  
Place\_Keyword: Kansas KS  
Place\_Keyword: Kentucky KY  
Place\_Keyword: Louisiana LA  
Place\_Keyword: Maine ME  
Place\_Keyword: Maryland MD  
Place\_Keyword: Massachusetts MA  
Place\_Keyword: Michigan MI  
Place\_Keyword: Minnesota MN  
Place\_Keyword: Mississippi MS  
Place\_Keyword: Missouri MO  
Place\_Keyword: Montana MT  
Place\_Keyword: Nebraska NE  
Place\_Keyword: Nevada NV  
Place\_Keyword: New Hampshire NH  
Place\_Keyword: New Jersey NJ  
Place\_Keyword: New Mexico NM  
Place\_Keyword: New York NY  
Place\_Keyword: North Carolina NC  
Place\_Keyword: North Dakota ND  
Place\_Keyword: Ohio OH  
Place\_Keyword: Oklahoma OK  
Place\_Keyword: Oregon OR  
Place\_Keyword: Pennsylvania PA  
Place\_Keyword: Rhode Island RI  
Place\_Keyword: South Carolina SC  
Place\_Keyword: South Dakota SD  
Place\_Keyword: Tennessee TN  
Place\_Keyword: Texas TX  
Place\_Keyword: Utah UT  
Place\_Keyword: Vermont VT  
Place\_Keyword: Virginia VA  
Place\_Keyword: Washington WA  
Place\_Keyword: West Virginia WV  
Place\_Keyword: Wisconsin WI  
Place\_Keyword: Wyoming WY

Access\_Constraints:

None.

Use\_Constraints:

None. Acknowledgement of the U.S. Environmental Protection Agency would be appreciated.

Native\_Data\_Set\_Environment:

Arcview Shapefile format for Windows 95 PC

## Cross\_Reference:

## Citation\_Information:

## Originator:

James R. Anderson, Ernest E. Hardy, John T. Roach, and Richard E. Witmer

Publication\_Date: 1976

## Title:

A Land Use and Land Cover Classification System for Use with Remote Sensor Data

## Publication\_Information:

Publication\_Place: Reston, Virginia

Publisher: U.S. Geological Survey Professional Paper 964

Online\_Linkage: <URL:http://www-nmd.usgs.gov/pub/ti/LULC/lulcpp964>

## Cross\_Reference:

## Citation\_Information:

Originator: U.S. Geological Survey

Publication\_Date: 1990

## Title:

USGeoData 1:250,000 and 1:100,000 Scale Land Use and Land Cover and Associated Maps Digital Data

## Publication\_Information:

Publication\_Place: Reston, Virginia

Publisher: U.S. Geological Survey

Online\_Linkage: <URL:http://www-nmd.usgs.gov/pub/ti/LULC/lulcguide>

## Cross\_Reference:

## Citation\_Information:

Originator: U.S. Environmental Protection Agency

Publication\_Date: 1994

## Title:

Metadata for 1:250,000 Scale Quadrangles of Landuse/Landcover GIRAS Spatial Data in the Conterminous United States

## Publication\_Information:

Publication\_Place: Washington, DC

Publisher: U.S. Environmental Protection Agency

Online\_Linkage: <URL:http://www.epa.gov/nsdi/projects/lulcmeta.htm>

## Spatial\_Reference\_Information:

## Horizontal\_Coordinate\_System\_Definition:

## Geographic:

Latitude\_Resolution: 0.0001

Longitude\_Resolution: 0.0001

Geographic\_Coordinate\_Units: Decimal Degrees

## Geodetic\_Model:

Horizontal\_Datum\_Name: North American Datum of 1983

Ellipsoid\_Name: Geodetic Reference System 80

Semi-major\_Axis: 6378137

Denominator\_of\_Flattening\_Ratio: 298.257

## Entity\_and\_Attribute\_Information:

## Detailed\_Description:

## Entity\_Type:

Entity\_Type\_Label: quadname.SHP

Entity\_Type\_Definition: GIRAS Landuse/Landcover polygons

Entity\_Type\_Definition\_Source: USGS GIRAS

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Attribute\_Definition: ArcView internal field

Attribute\_Definition\_Source: Assigned  
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       Codeset\_Name: Anderson landuse classification name  
       Codeset\_Source: see Publication\_Information U.S.G.S. paper 964

## Overview\_Description:

Entity\_and\_Attribute\_Overview: See the attached attribute list.

Entity\_and\_Attribute\_Detail\_Citation: See Entity\_and\_Attribute\_Information.

## Distribution\_Information:

## Distributor:

## Contact\_Information:

## Contact\_Organization\_Primary:

Contact\_Organization: USEPA/Office of Water/OST

## Contact\_Address:

Address\_Type: Mailing Address

Address: 1200 Pennsylvania Ave., NW (4305T)

City: Washington

State\_or\_Province: District of Columbia

Postal\_Code: 20460

Country: USA

Contact\_Voice\_Telephone: 202-566-0400

Contact\_Facsimile\_Telephone: 202-566-0409

Contact\_Electronic\_Mail\_Address: basins@epa.gov

## Distribution\_Liability:

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## Standard\_Order\_Process:

## Digital\_Form:

## Digital\_Transfer\_Information:

Format\_Name: Environmental Systems Research Institute (ESRI)

ArcView Shapefile

## Digital\_Transfer\_Option:

## Online\_Option:

## Computer\_Contact\_Information:

## Network\_Address:

Network\_Resource\_Name: <http://www.epa.gov/waterscience/basins/>

## Offline\_Option:

Offline\_Media: CD-ROM

Recording\_Format: ISO 9660

Fees: None

## Ordering\_Instructions:

When requesting data by phone or mail, please inquire about spatial data sets that work with Better Assessment Science Integrating Point and Nonpoint Sources (BASINS). The BASINS web page has instructions for downloading datasets. It also has a link to The National Center for Environmental Publications and Information (NCEPI), from which BASINS CD-ROMs may be ordered. Each CD-ROM contains the BASINS v2.0 Application and this data set along with others covering the spatial extent of an EPA Region.

## Metadata\_Reference\_Information:

Metadata\_Date: 20070611

Metadata\_Contact:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: USEPA/OW/OST

Contact\_Address:

Address\_Type: Mailing Address

Address: 1200 Pennsylvania Ave., NW (4305T)

City: Washington

State\_or\_Province: District of Columbia

Postal\_Code: 20460

Country: USA

Contact\_Voice\_Telephone: 202-566-0400

Contact\_Facsimile\_Telephone: 202-566-0409

Contact\_Electronic\_Mail\_Address: basins@epa.gov

Metadata\_Standard\_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata\_Standard\_Version: 19940608

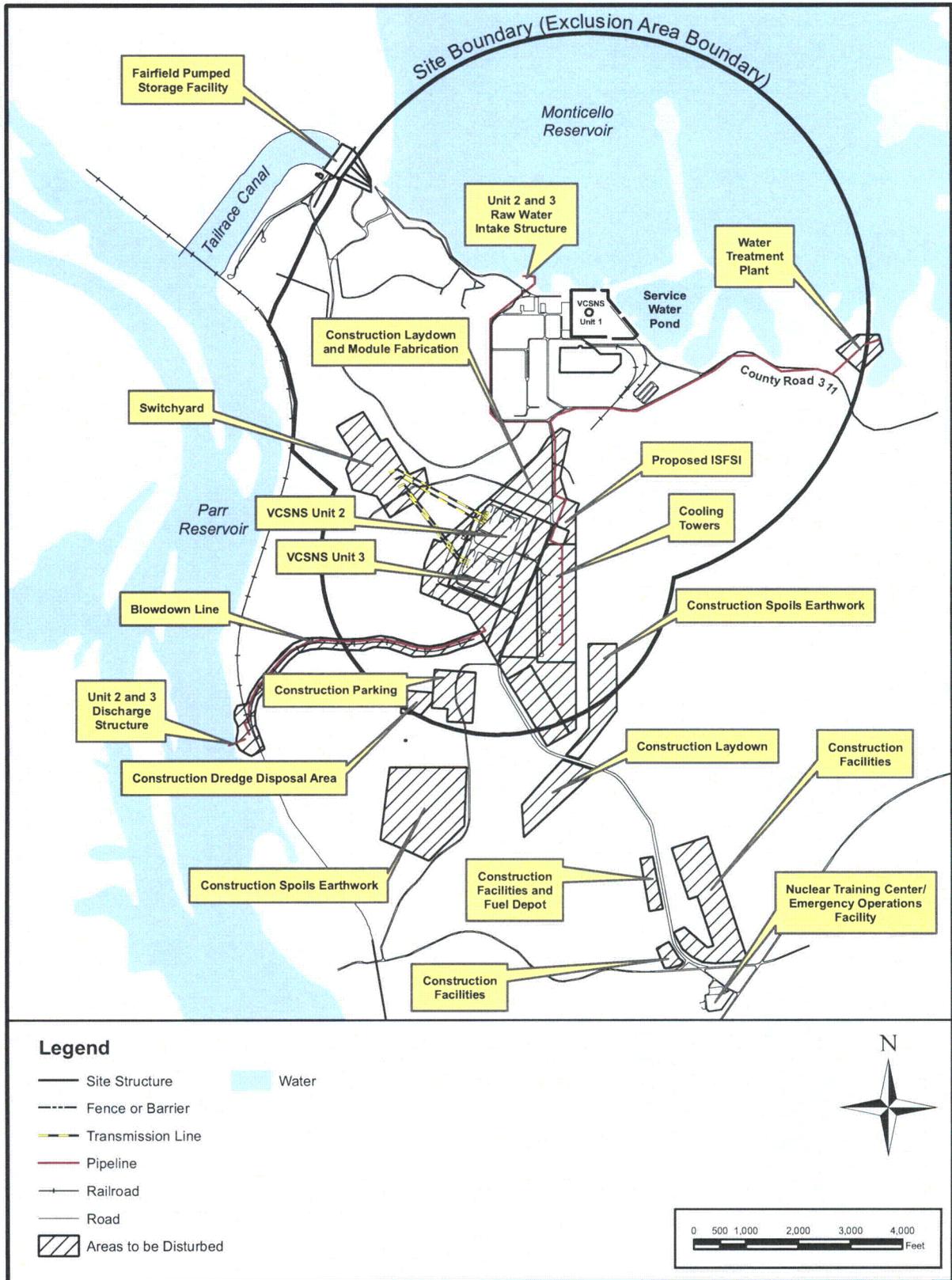


Figure 2.1-1 VCSNS Site and Proposed Plant Footprint

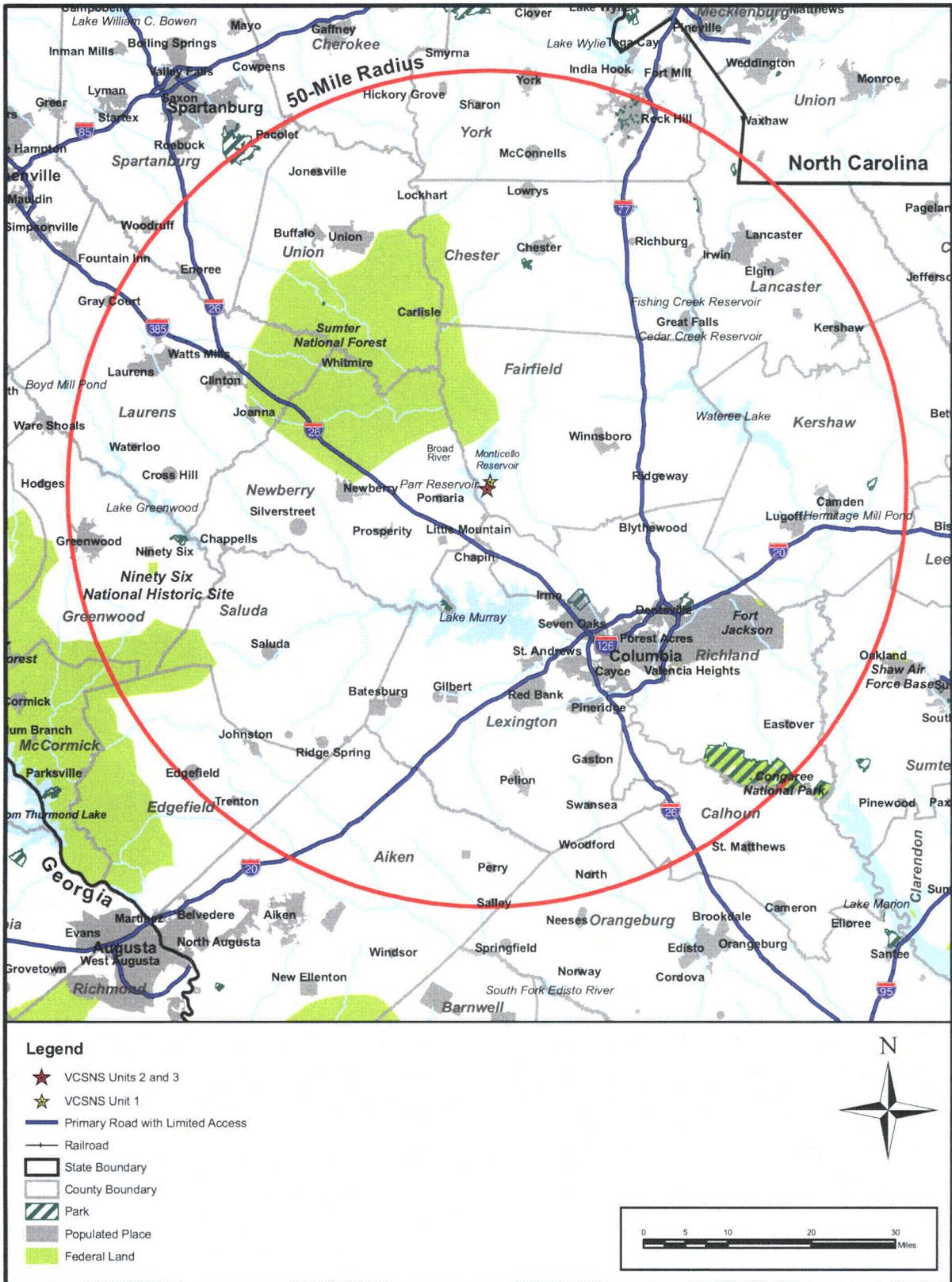


Figure 2.1-2 50-Mile Vicinity

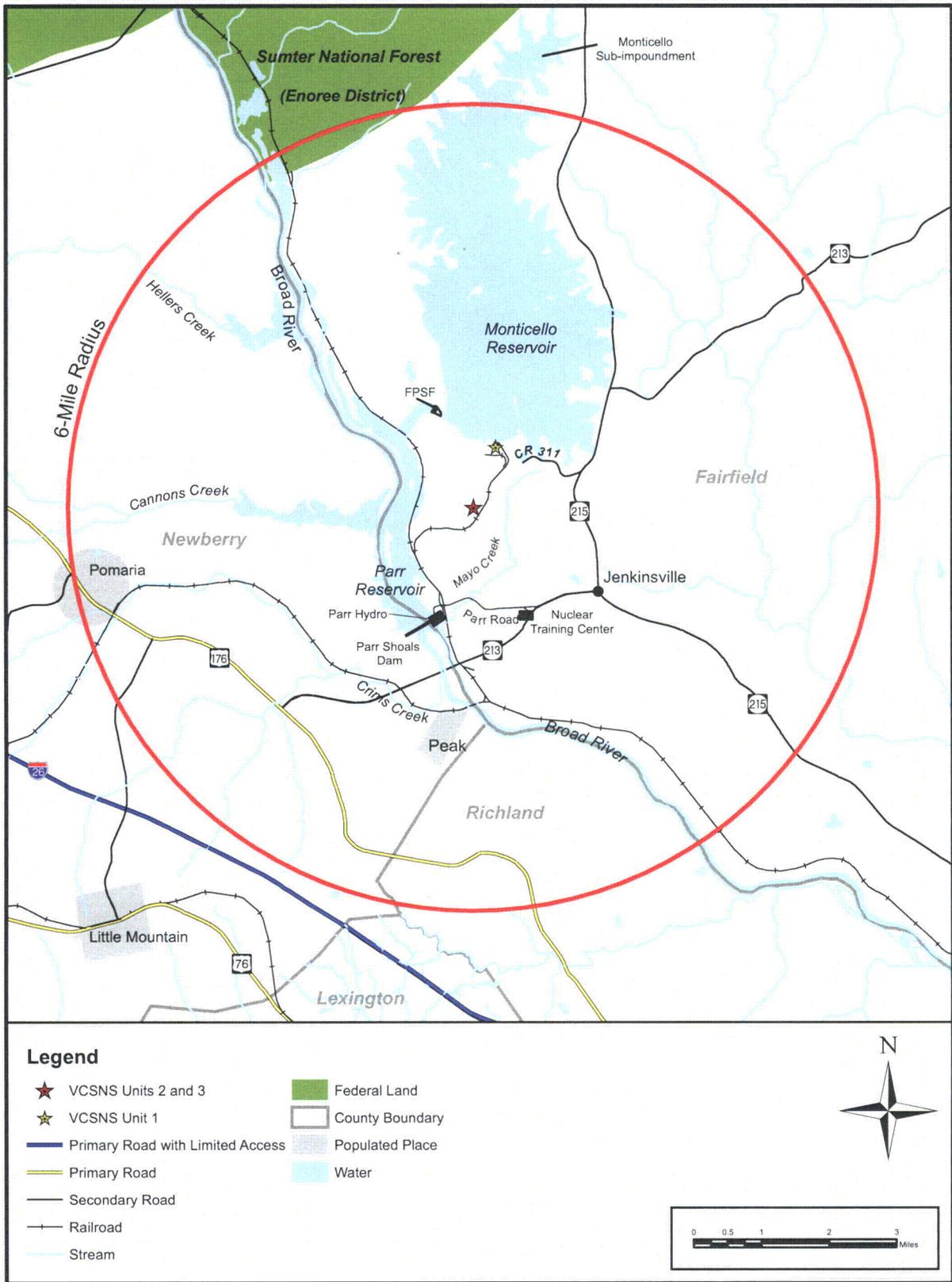
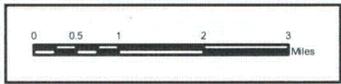


Figure 2.1-3 6-Mile Vicinity



**Legend**

- ★ VCSNS Units 2 and 3
- Past Mineral Resource
- ▭ County Boundary
- ▧ Urban or Built-up Land
- Agricultural Land
- ▨ Forest Land
- ▨ Wetland
- ▨ Barren Land
- ▲ Present Mineral Resource
- Primary Highway with Limited Access
- Primary Road
- Secondary Road
- Railroad
- Stream



**Figure 2.2-2 Land Use in the Vicinity of the Proposed Site**



Figure 2.2-2 Land Use in the Vicinity of the Proposed Site

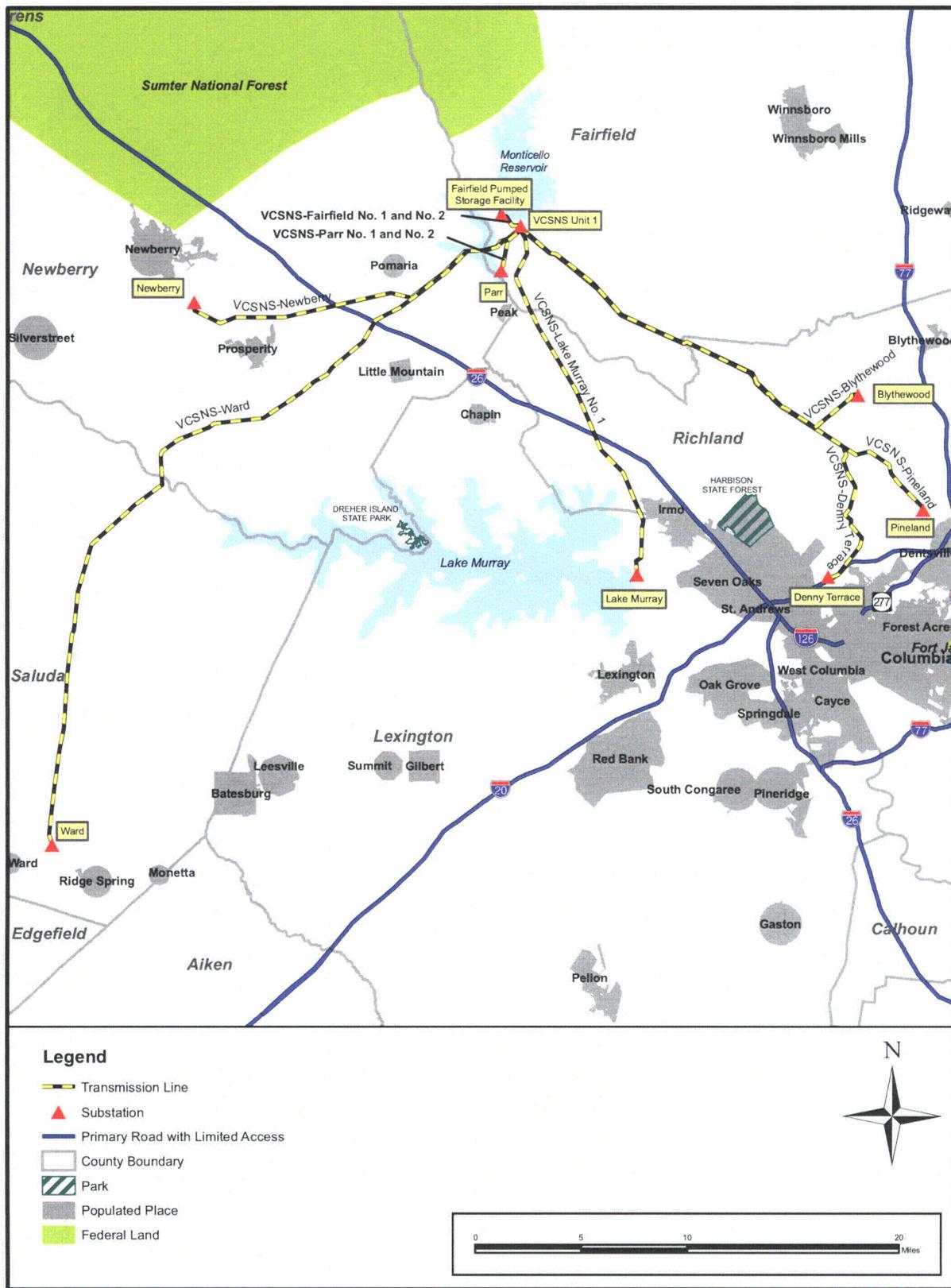


Figure 2.2-3 Existing Transmission System for VCSNS Unit 1

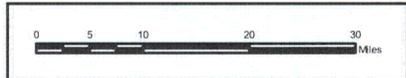


Figure 2.2-4 Land Uses in Counties Affected by the Proposed New Transmission Lines



**Legend**

- ★ VCSNS Units 2 and 3
- Transmission Line
- Primary Road with Limited Access
- ▭ State Boundary
- ▭ County Boundary
- ▭ Residential
- ▭ Industrial
- Agricultural
- Rangeland
- Forest Land
- Water
- Wetland
- Barren Land



**Figure 2.2-5 Land Use in the Region of the Proposed Site**

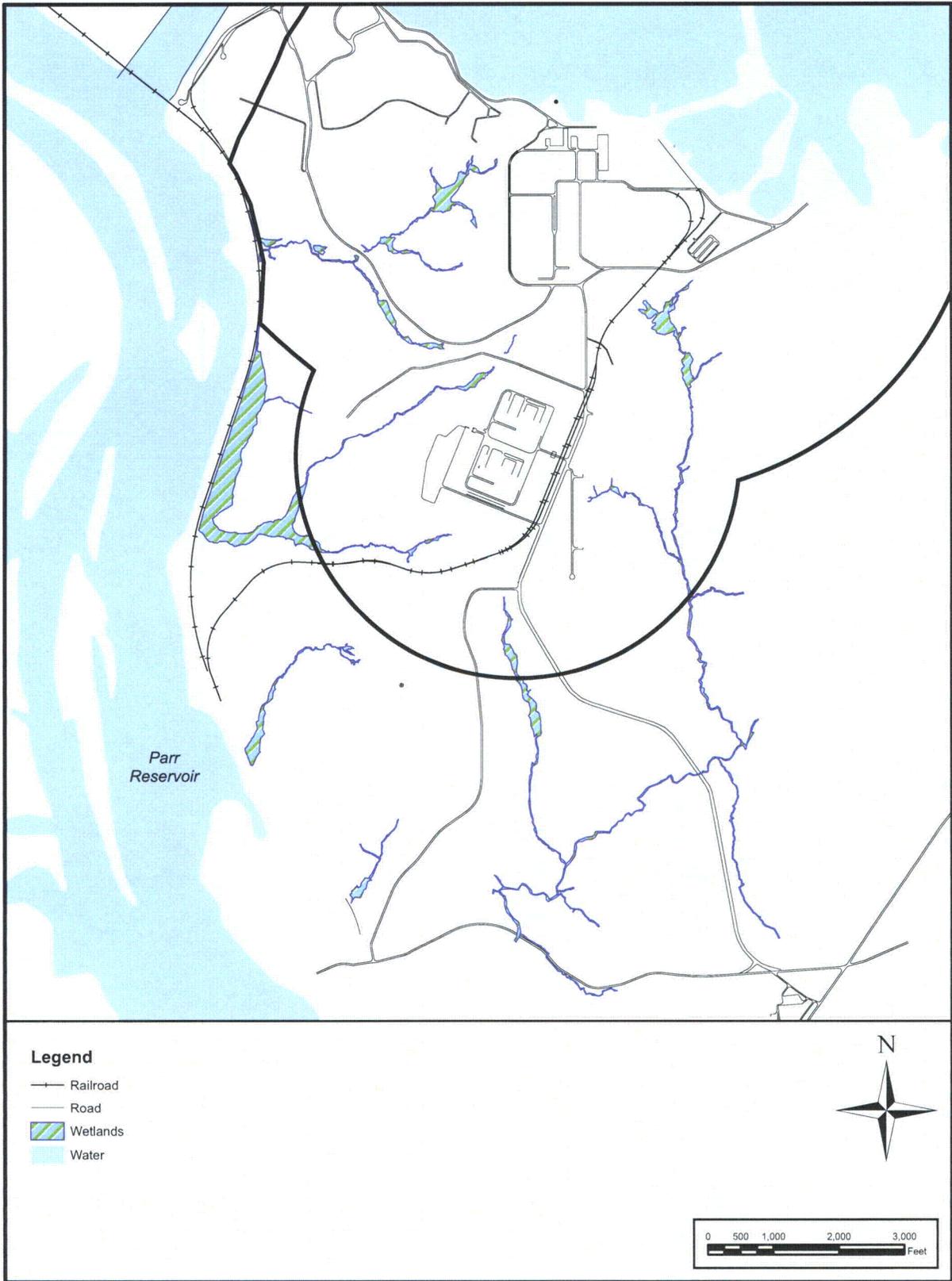


Figure 2.3-20 Mapped Wetlands

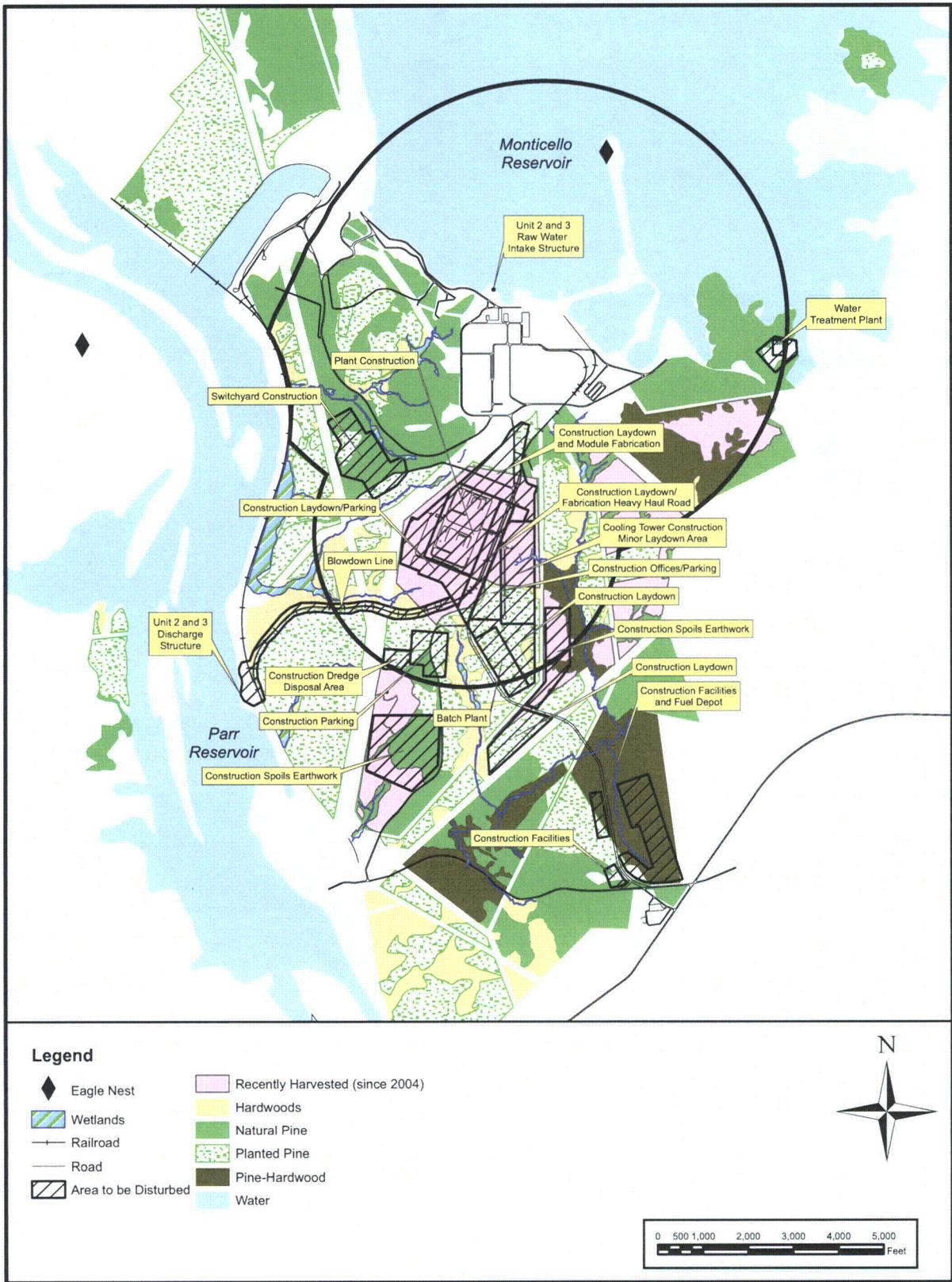


Figure 2.4-1 Habitats and Areas That Will Be Disturbed During Construction of VCSNS Units 2 and 3

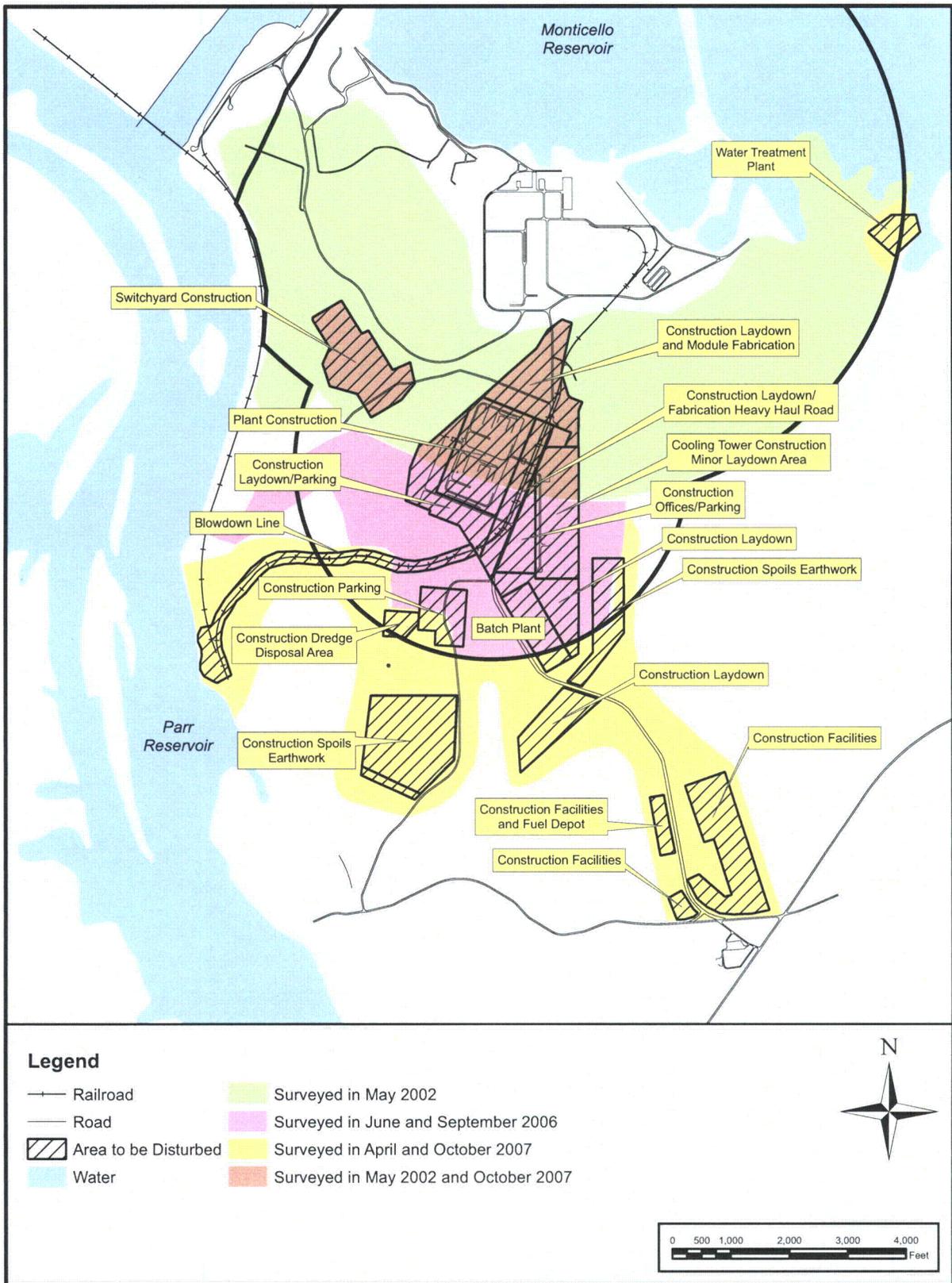


Figure 2.4-2 Areas Surveyed for Endangered and Threatened Species at VCSNS, 2002 - 2007

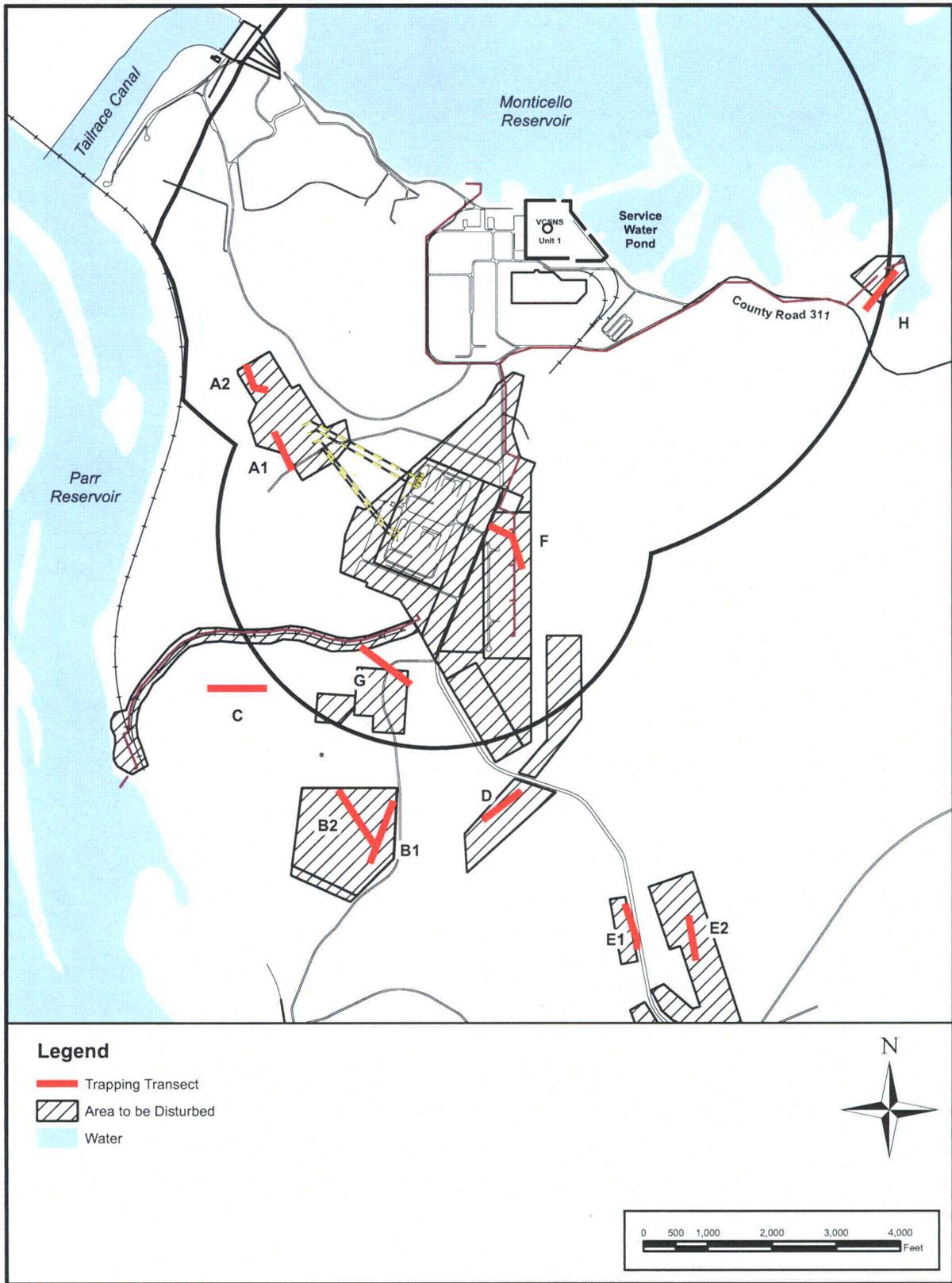


Figure 2.4-3. Small Mammal Trapping Transects on the VCSNS Site, October 2008.

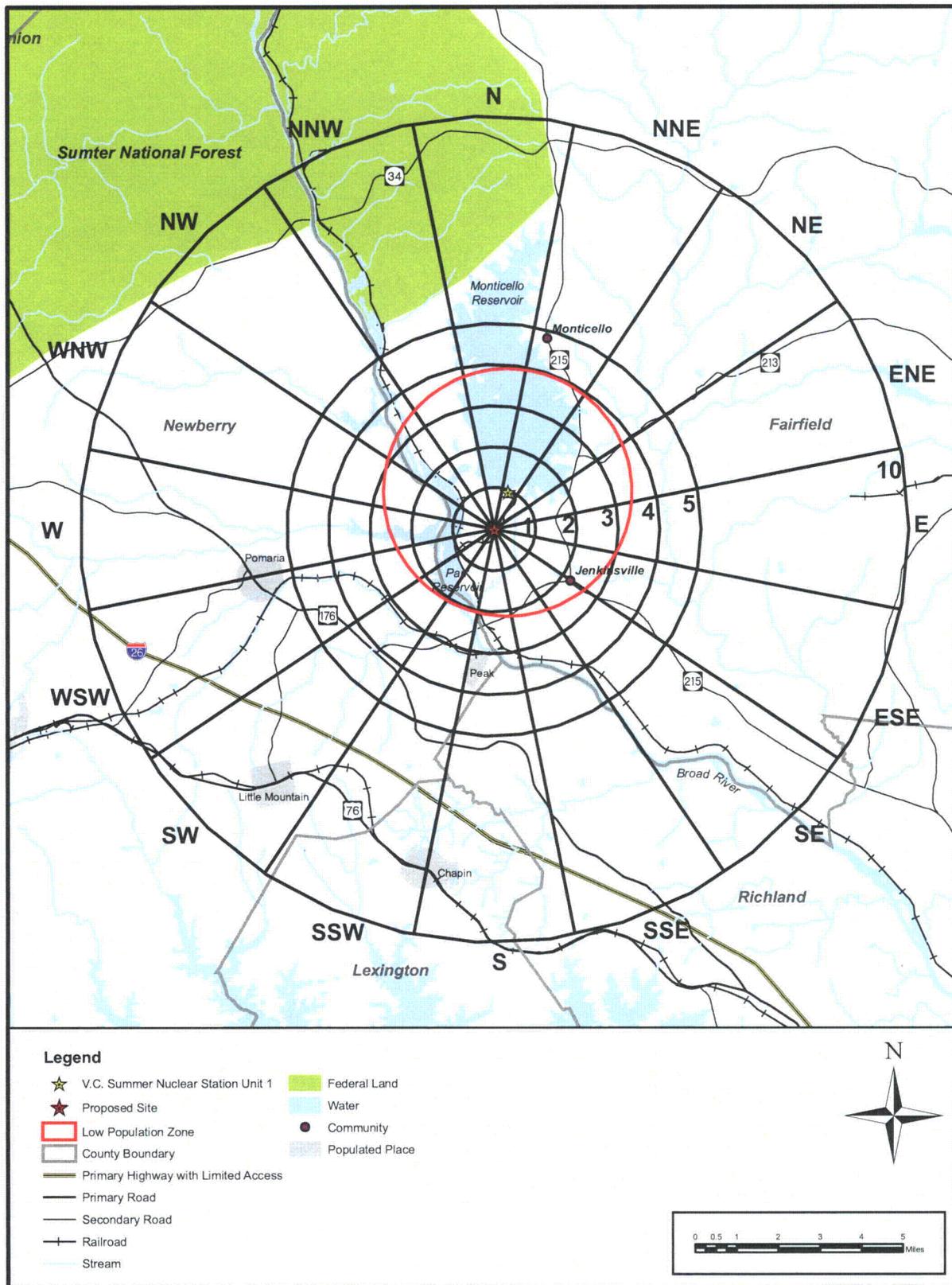
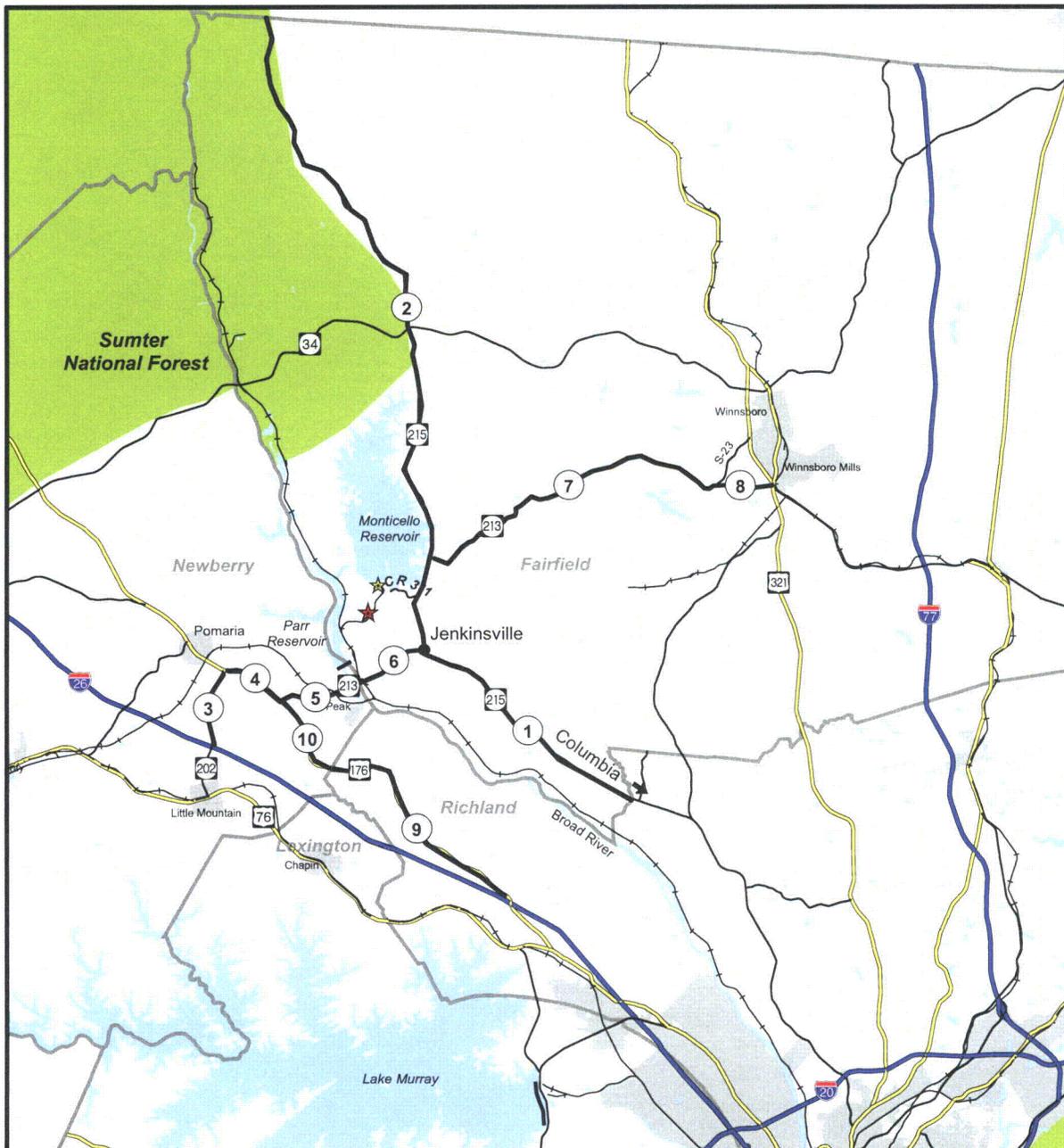


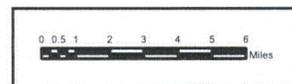
Figure 2.5-1 10-Mile Surrounding Area





**Legend**

- ★ VCSNS Units 2 and 3
- ☆ VCSNS Unit 1
- County Boundary
- Interstate
- Primary Road
- Secondary Road
- Railroad
- Populated Place
- Water
- Main Routes to VCSNS
- ① Route Segment
- 🛣 Interstate Shield
- 🛣 U.S. Route
- 🛣 State Route



**Figure 2.5-3 Road and Highway Transportation System**

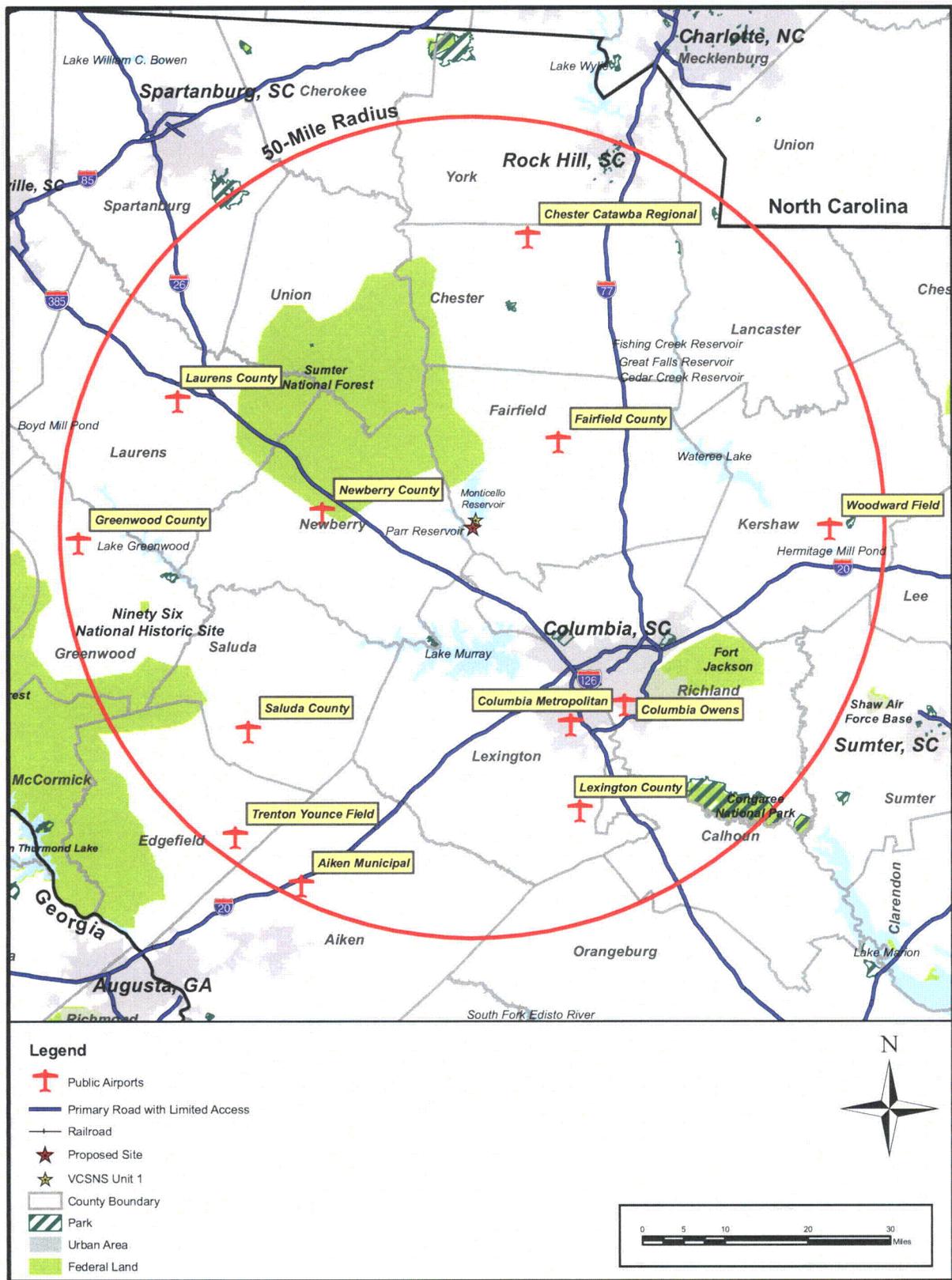


Figure 2.5-4 Public Airports and Rail System Within 50 Miles of the Proposed Site

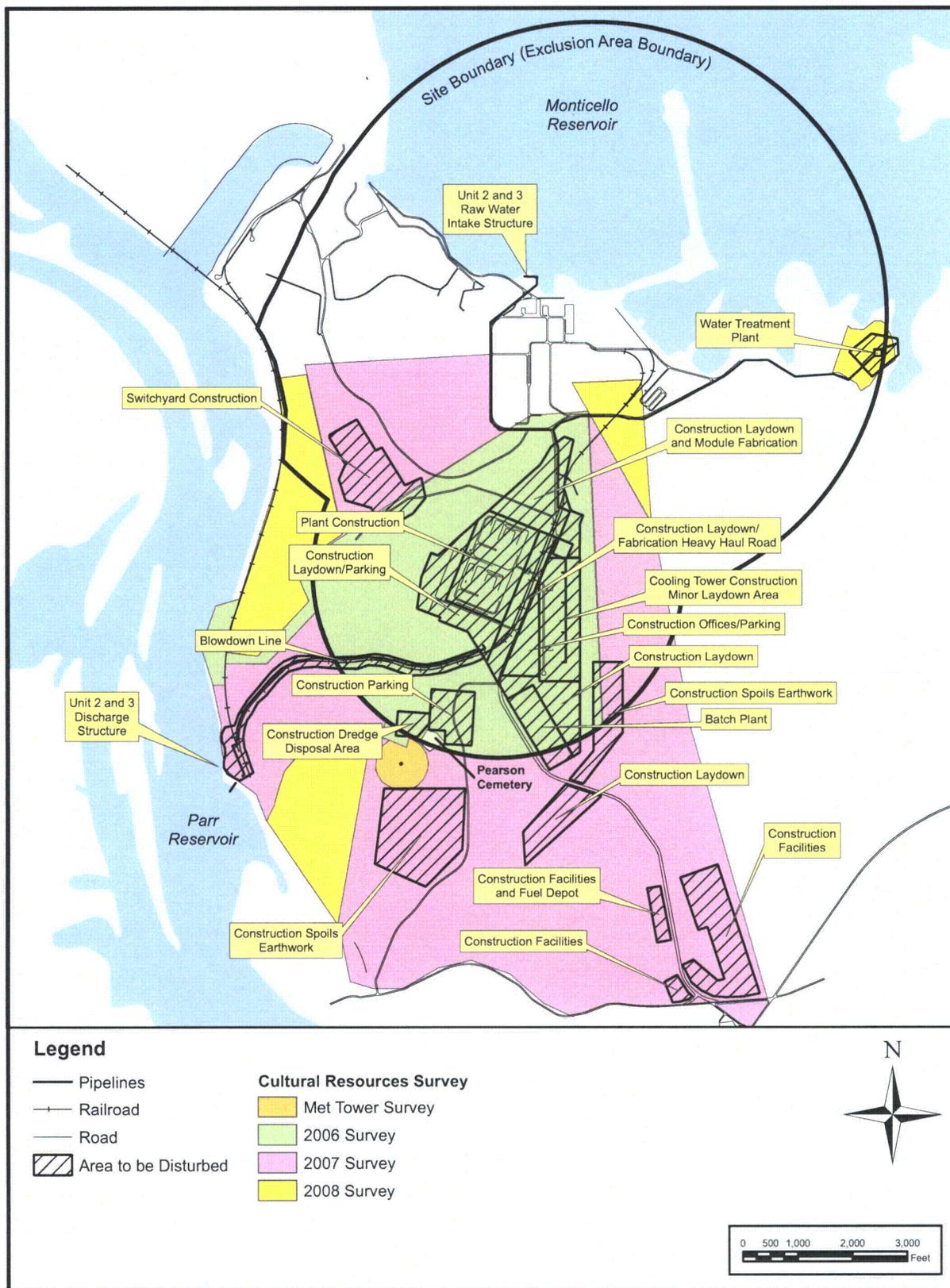


Figure 2.5-5 Areas Surveyed for Cultural Resources at VCSNS

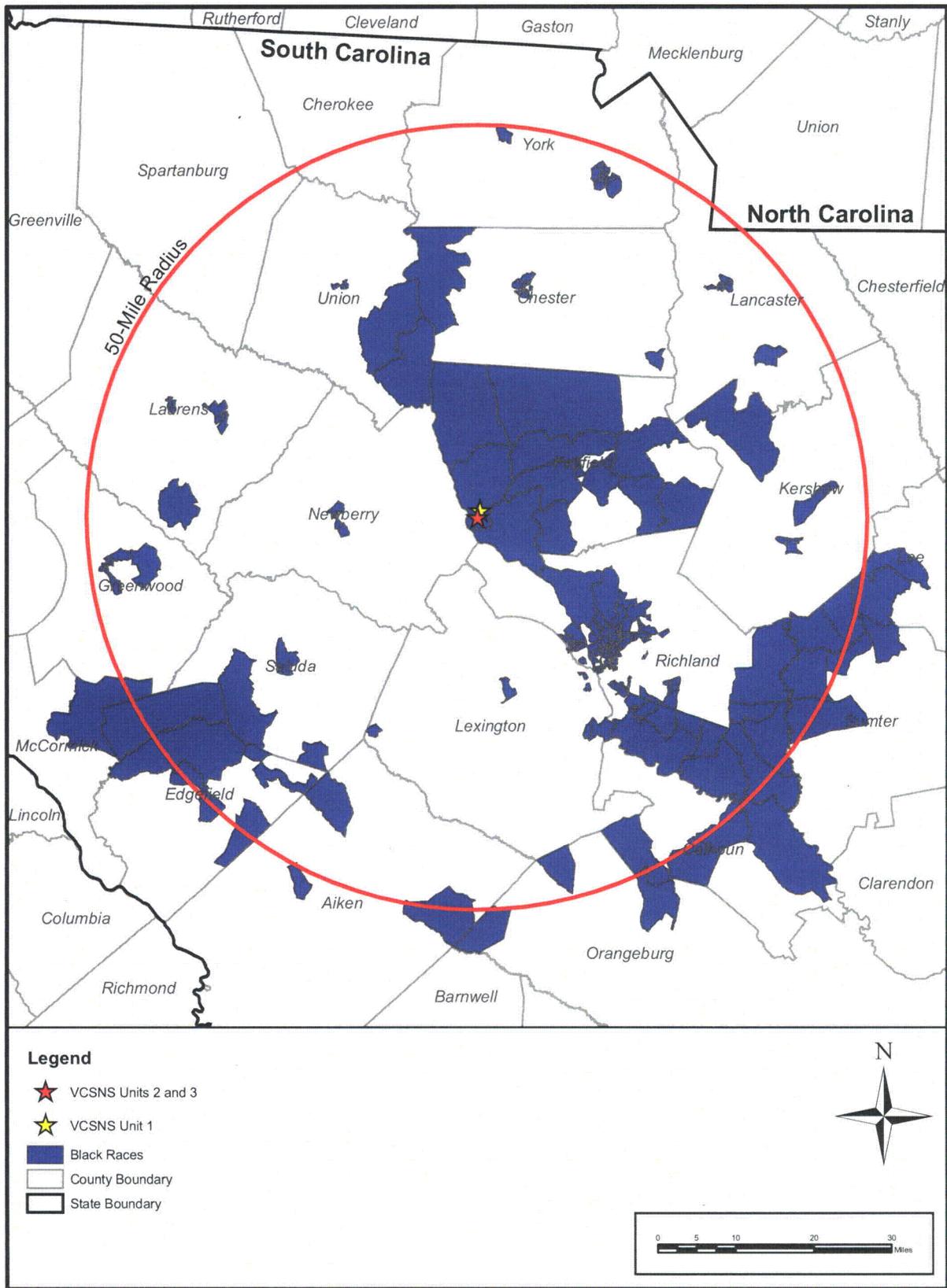


Figure 2.5-6 Black Races Block Groups

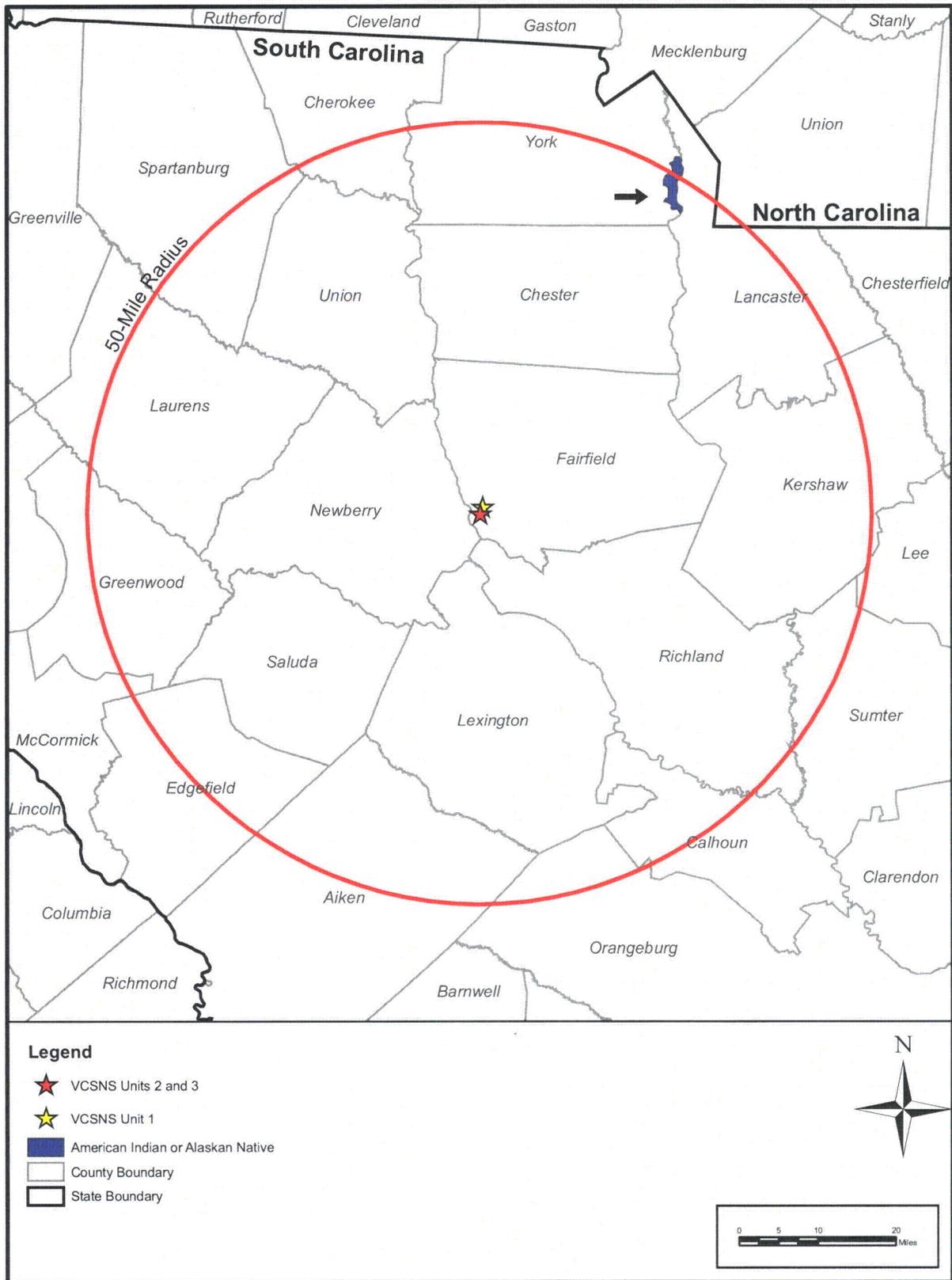


Figure 2.5-7 American Indian or Alaskan Native Block Groups

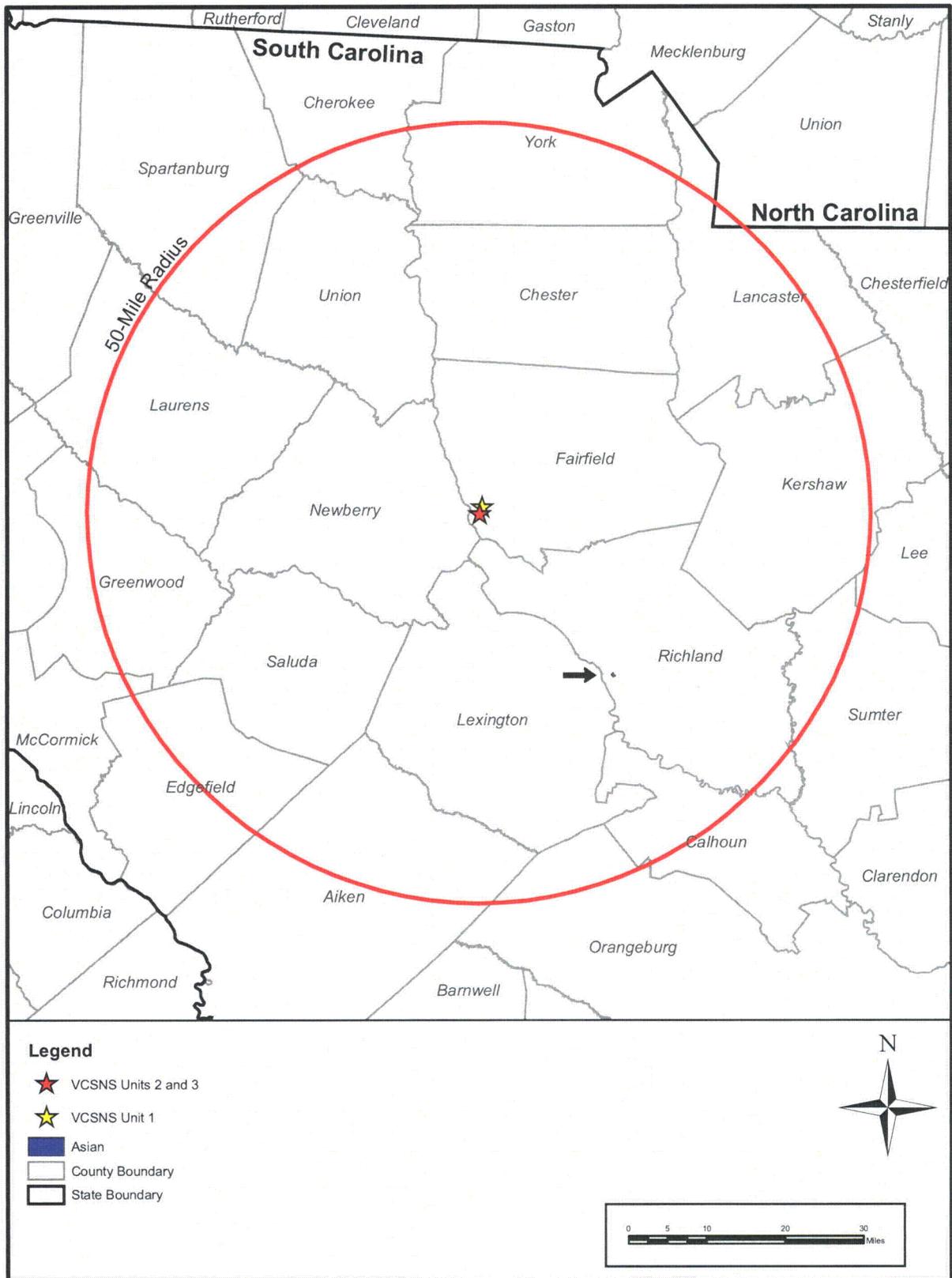


Figure 2.5-8 Asian Block Groups

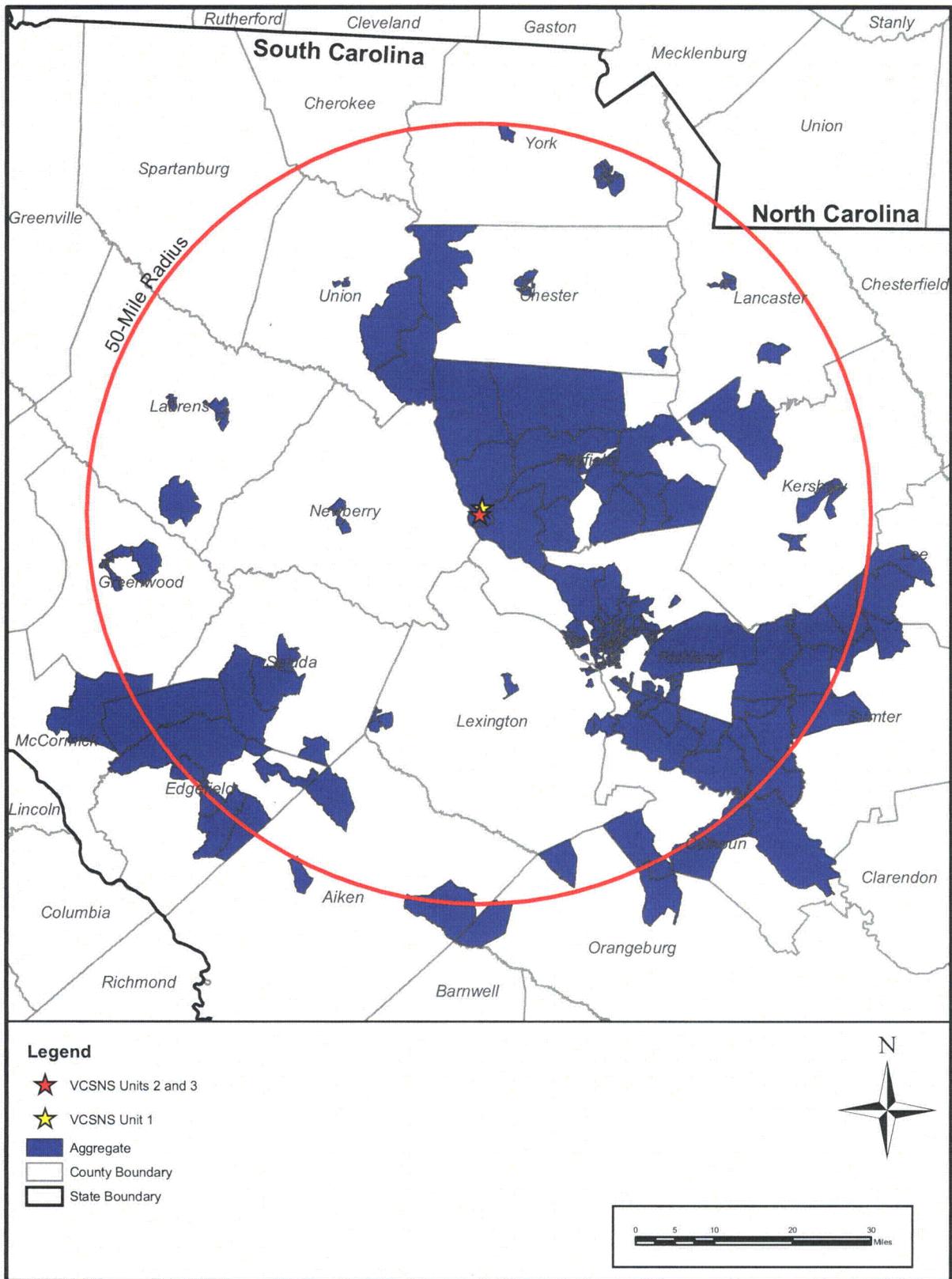


Figure 2.5-9 Aggregate Block Groups

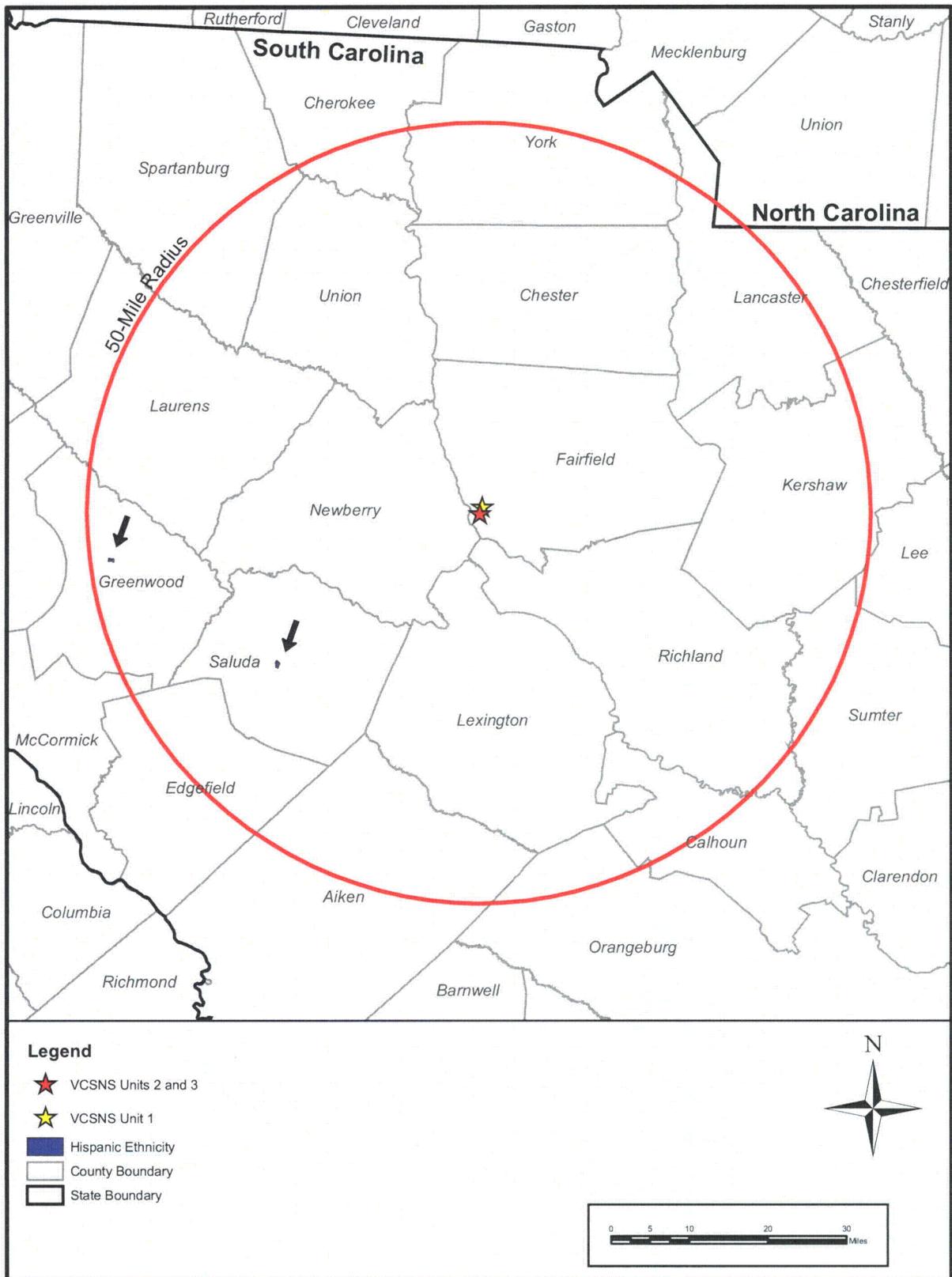


Figure 2.5-10 Hispanic Ethnicity Block Groups

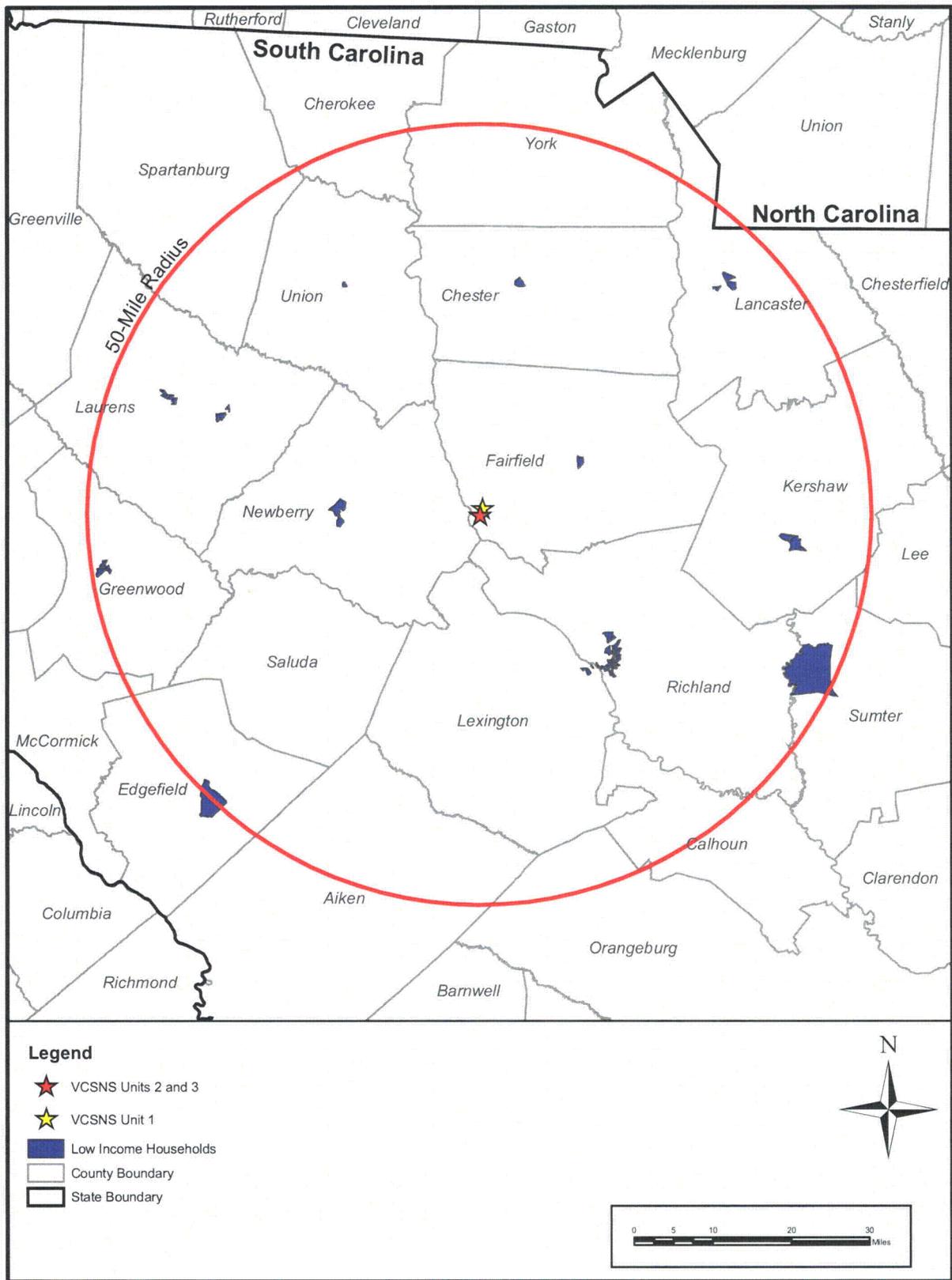


Figure 2.5-11 Low Income Block Groups

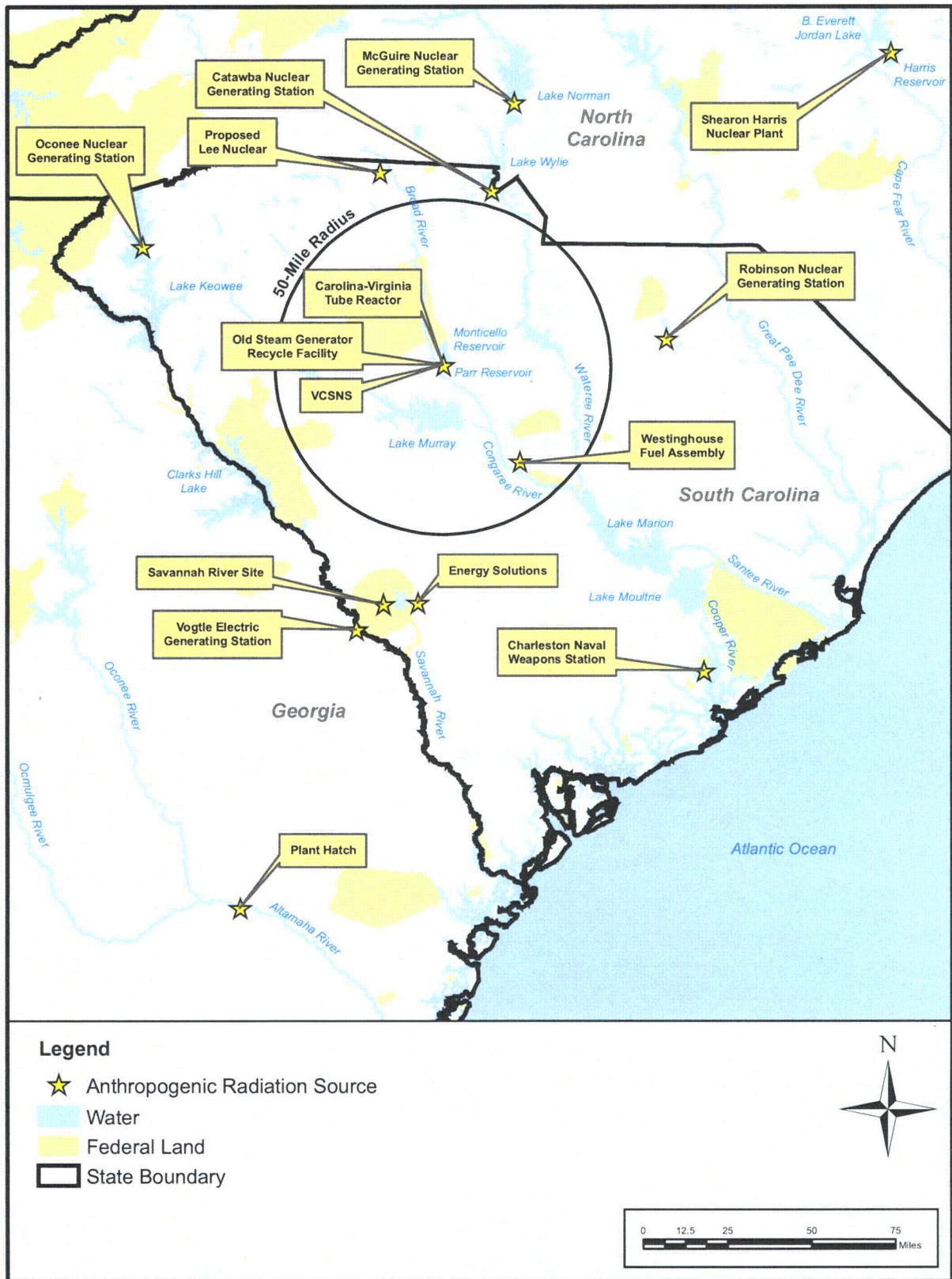


Figure 2.8-1 Anthropogenic Radiation Sources

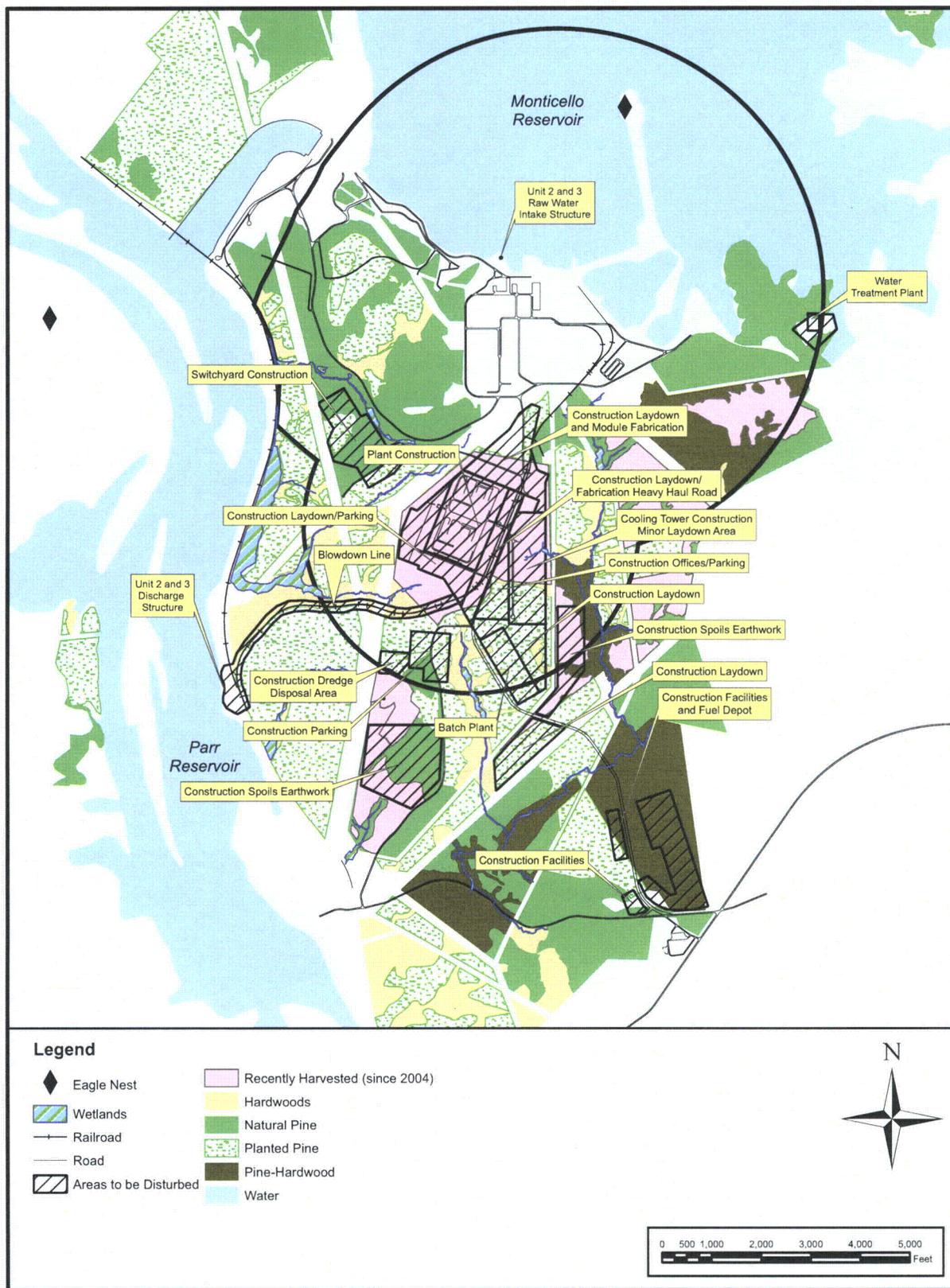


Figure 4.3-1 Habitats and Areas That Will Be Disturbed During Construction of VCSNS Units 2 and 3

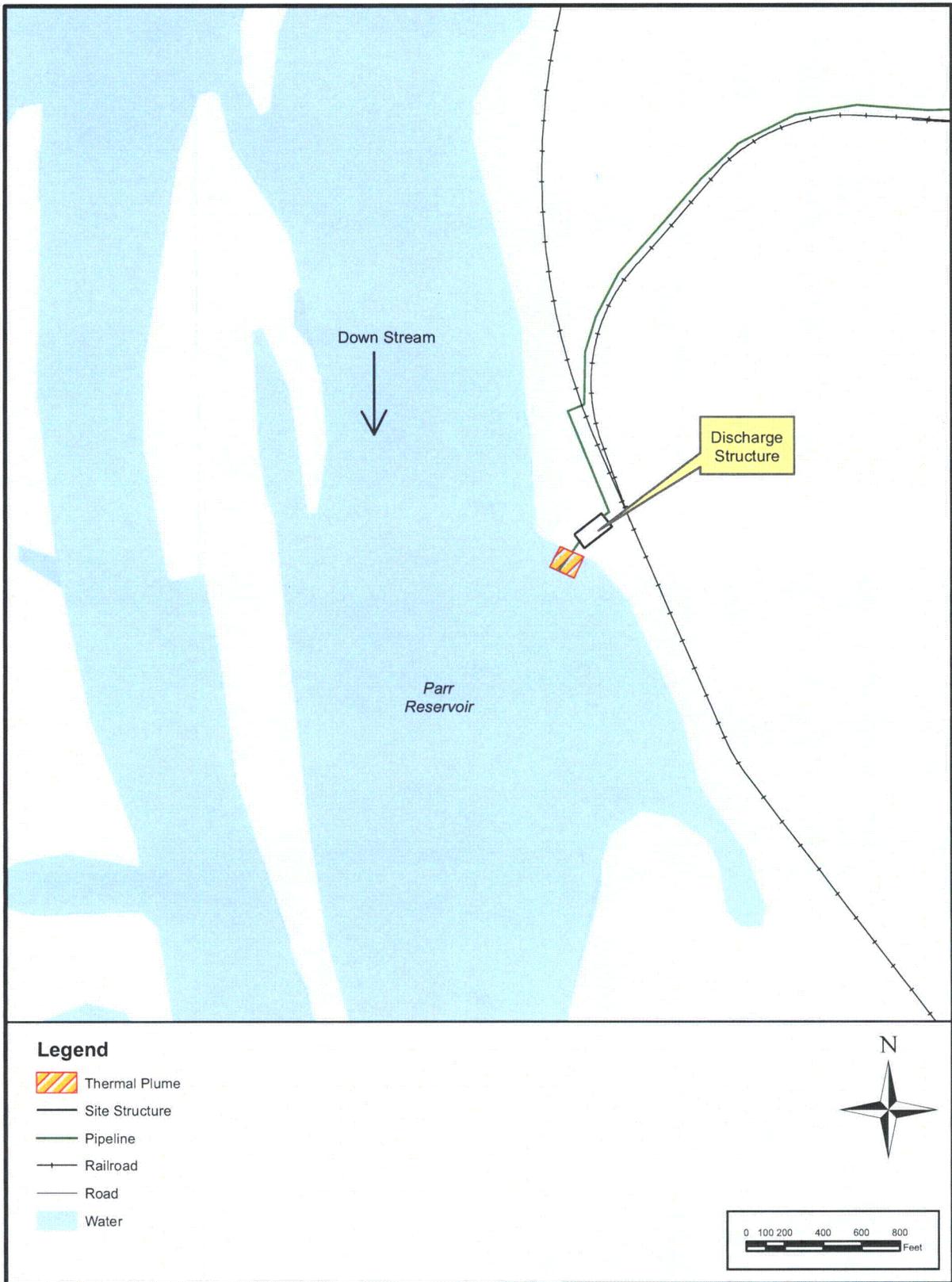


Figure 5.3-4 Modeled Areal Extent of Thermal Plume in Parr Reservoir

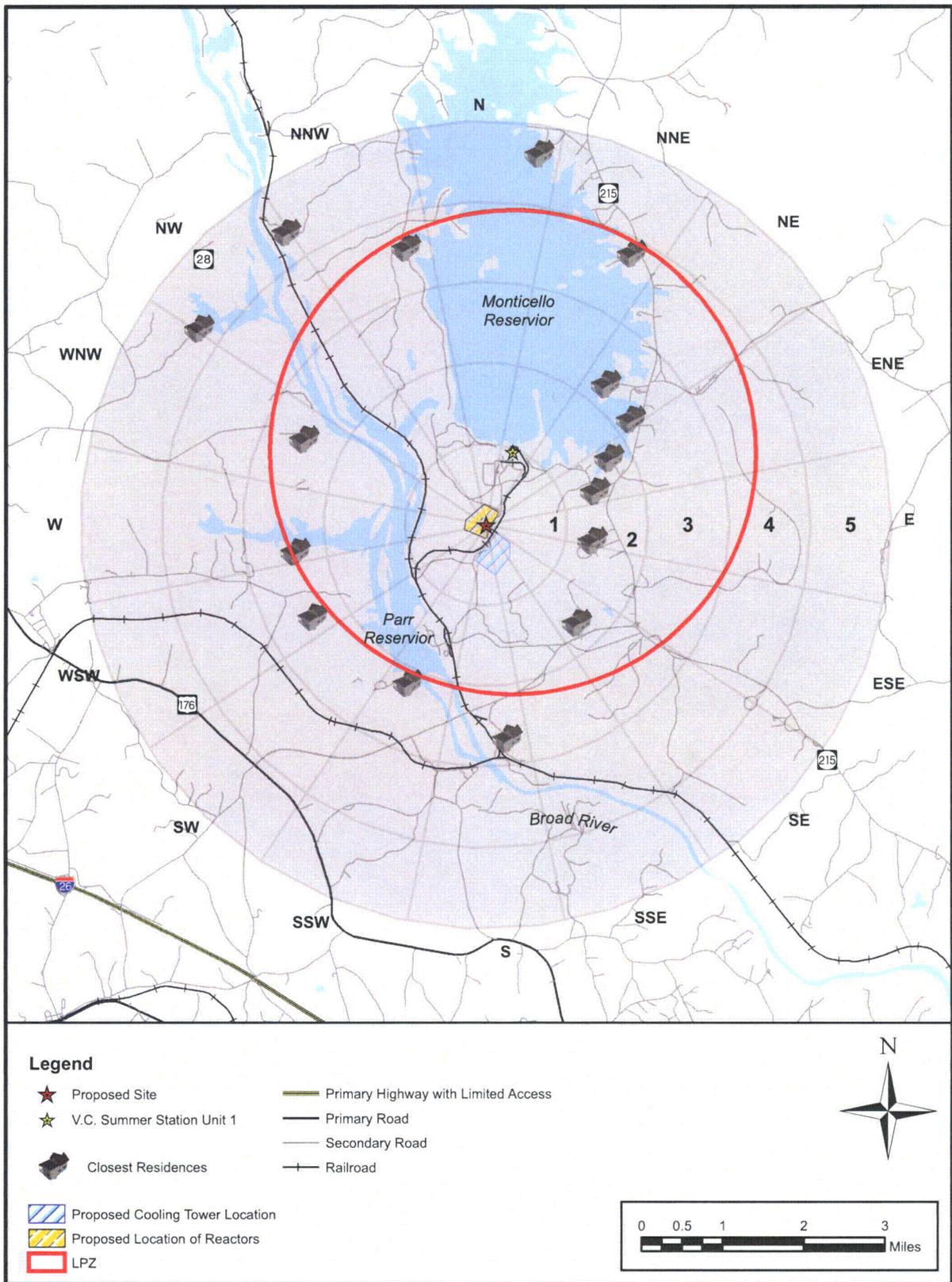


Figure 5.8-1 Closest Residences In Each of 16 Directions

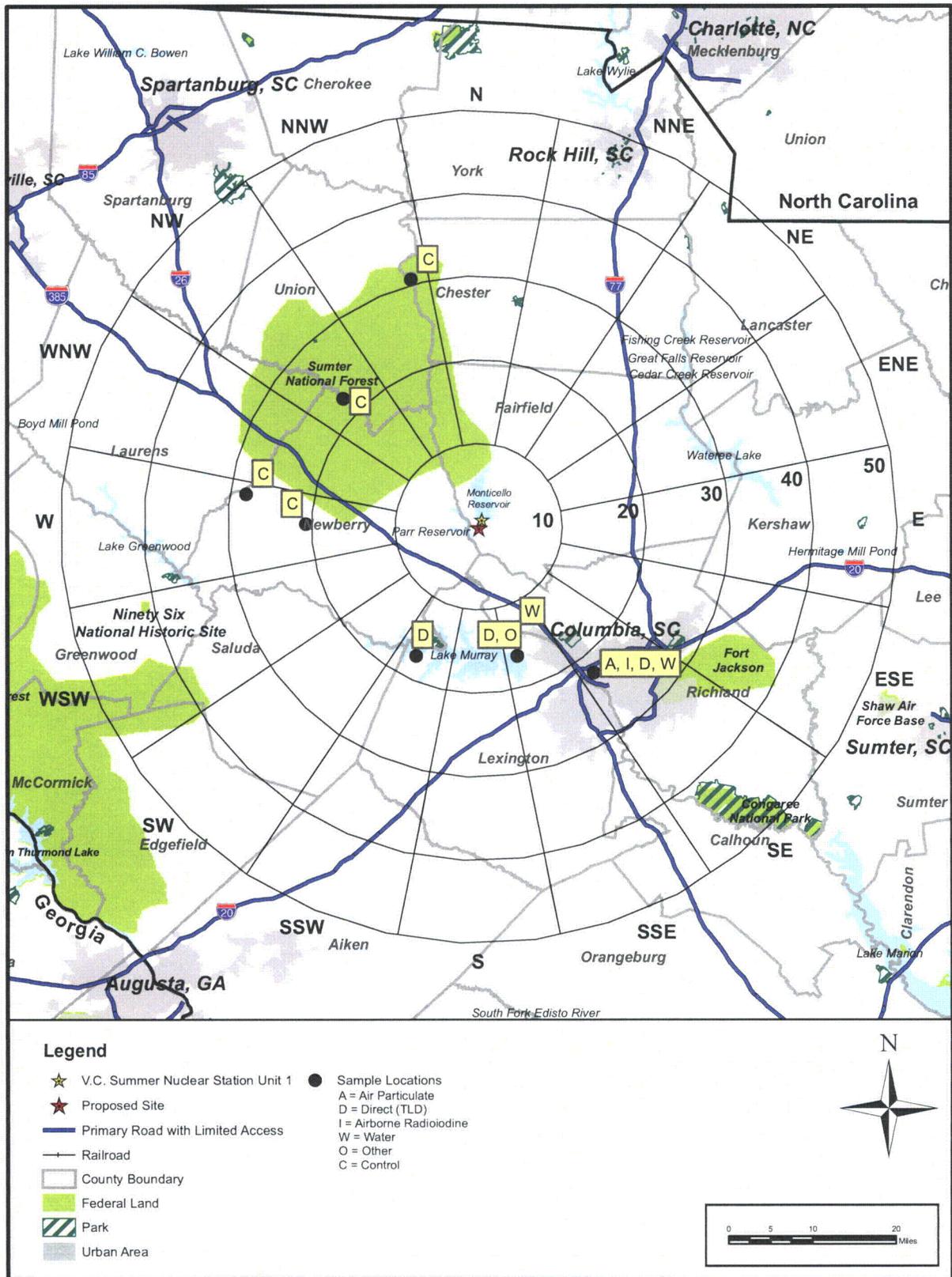


Figure 6.2-1 Existing Radiological Environmental Sample Locations (remote)

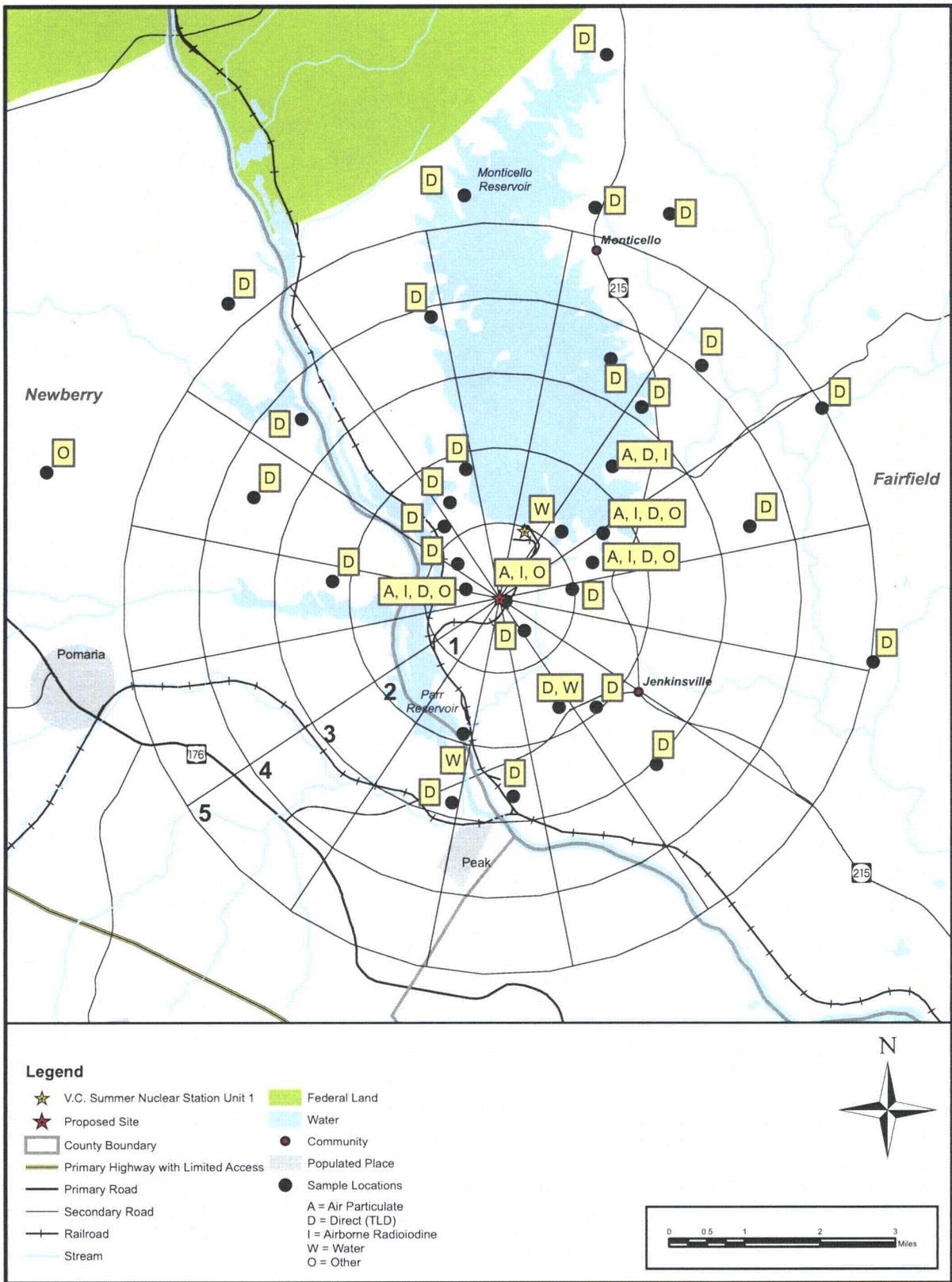


Figure 6.2-2 Existing Radiological Environmental Sample Locations (local)

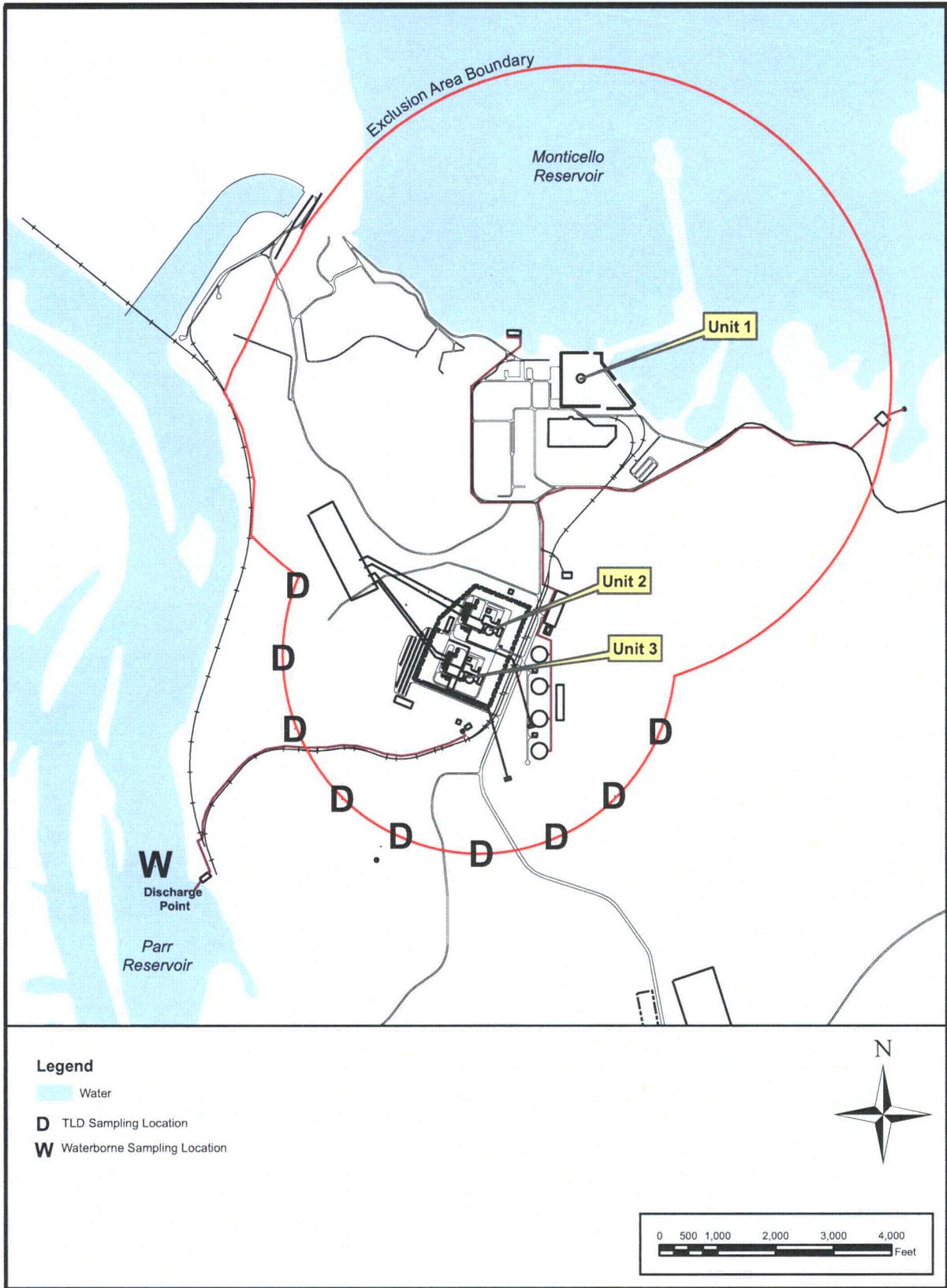


Figure 6.2-3 Proposed New Radiological Sampling Locations

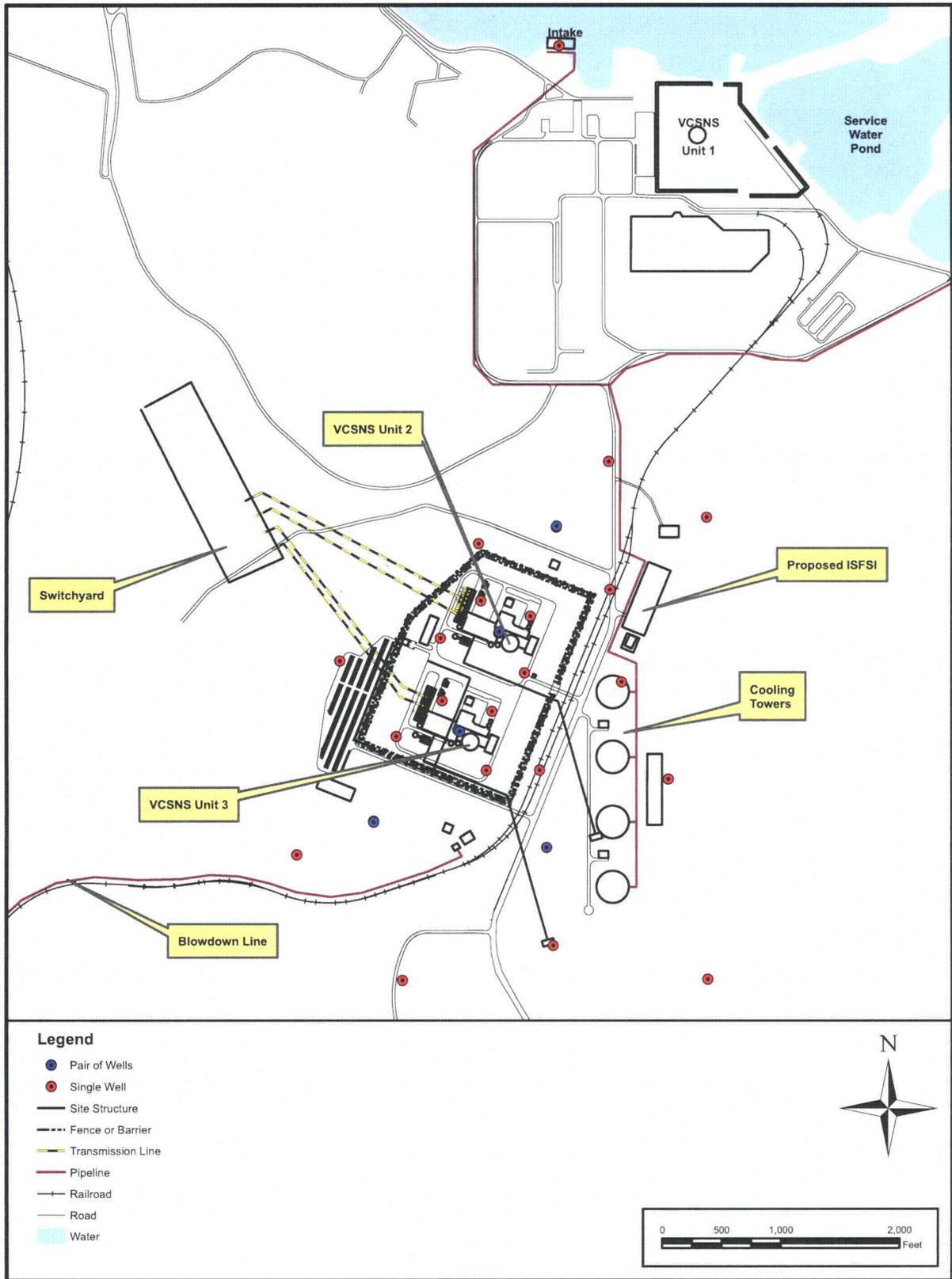


Figure 6.3-1 Observation Wells

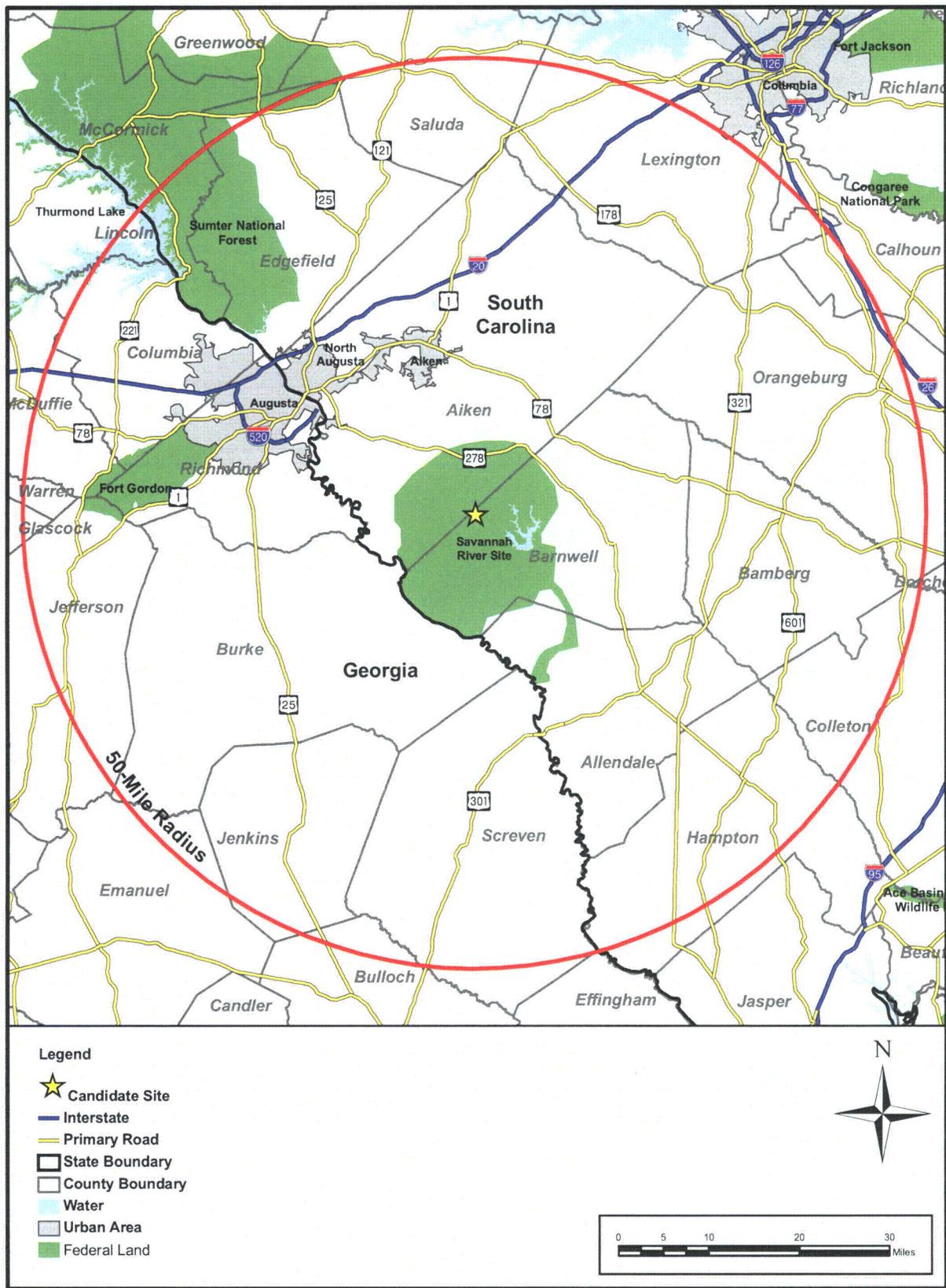


Figure 9.3-3 Savannah River Site

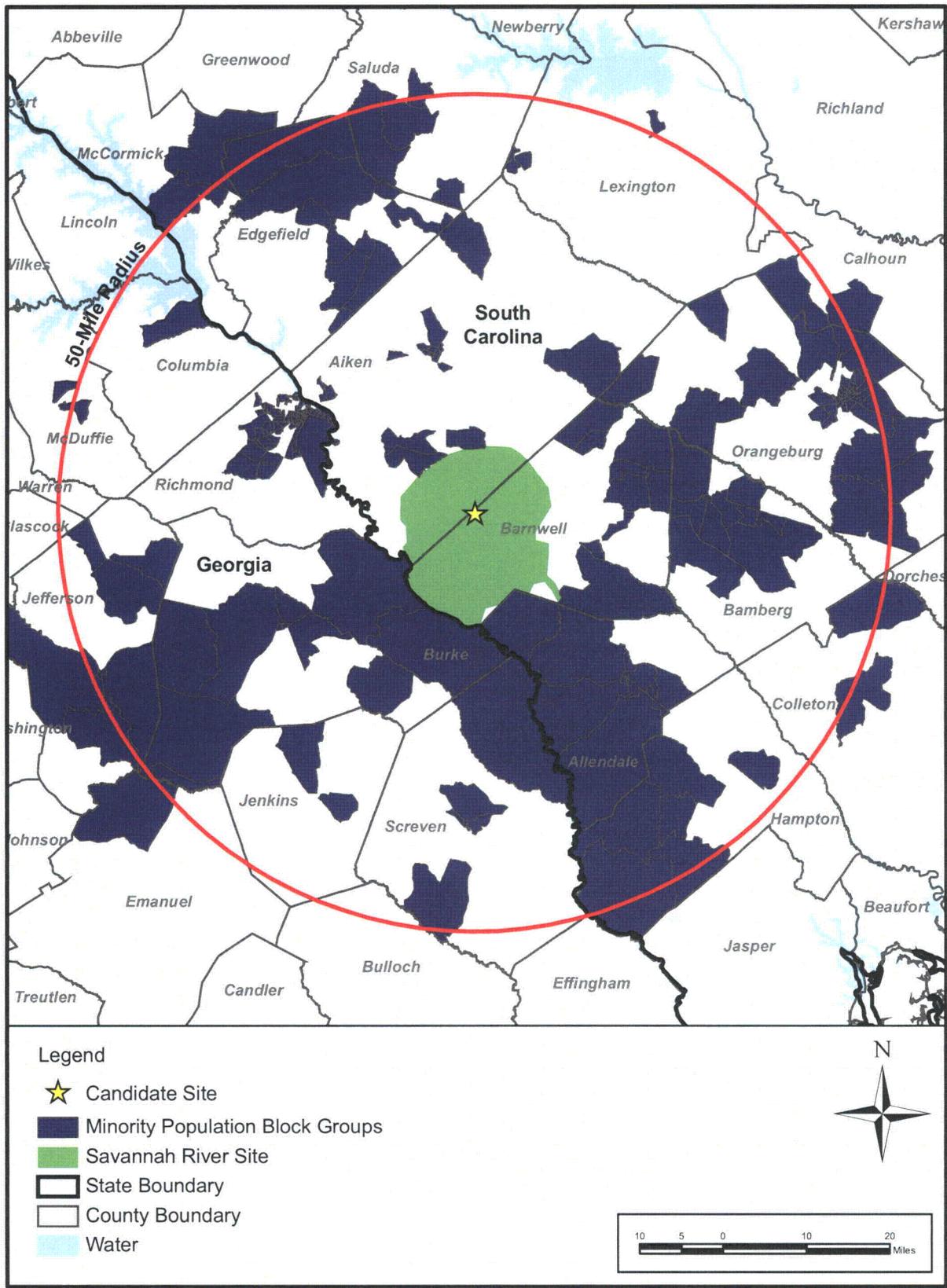


Figure 9.3-4 Minority Population Block Groups within 50 Miles of SRS

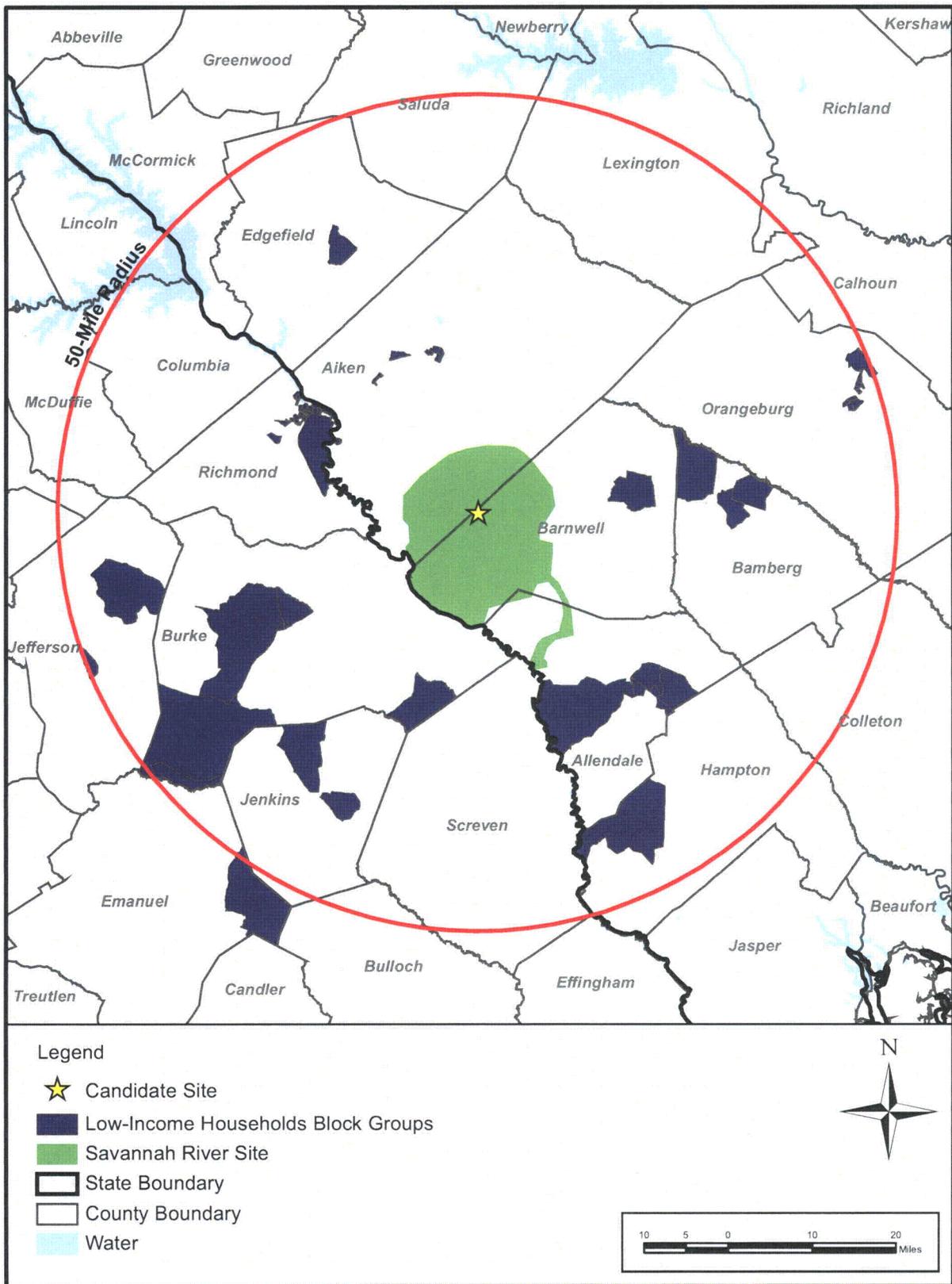


Figure 9.3-5 Low-Income Households Block Groups within 50 Miles of SRS

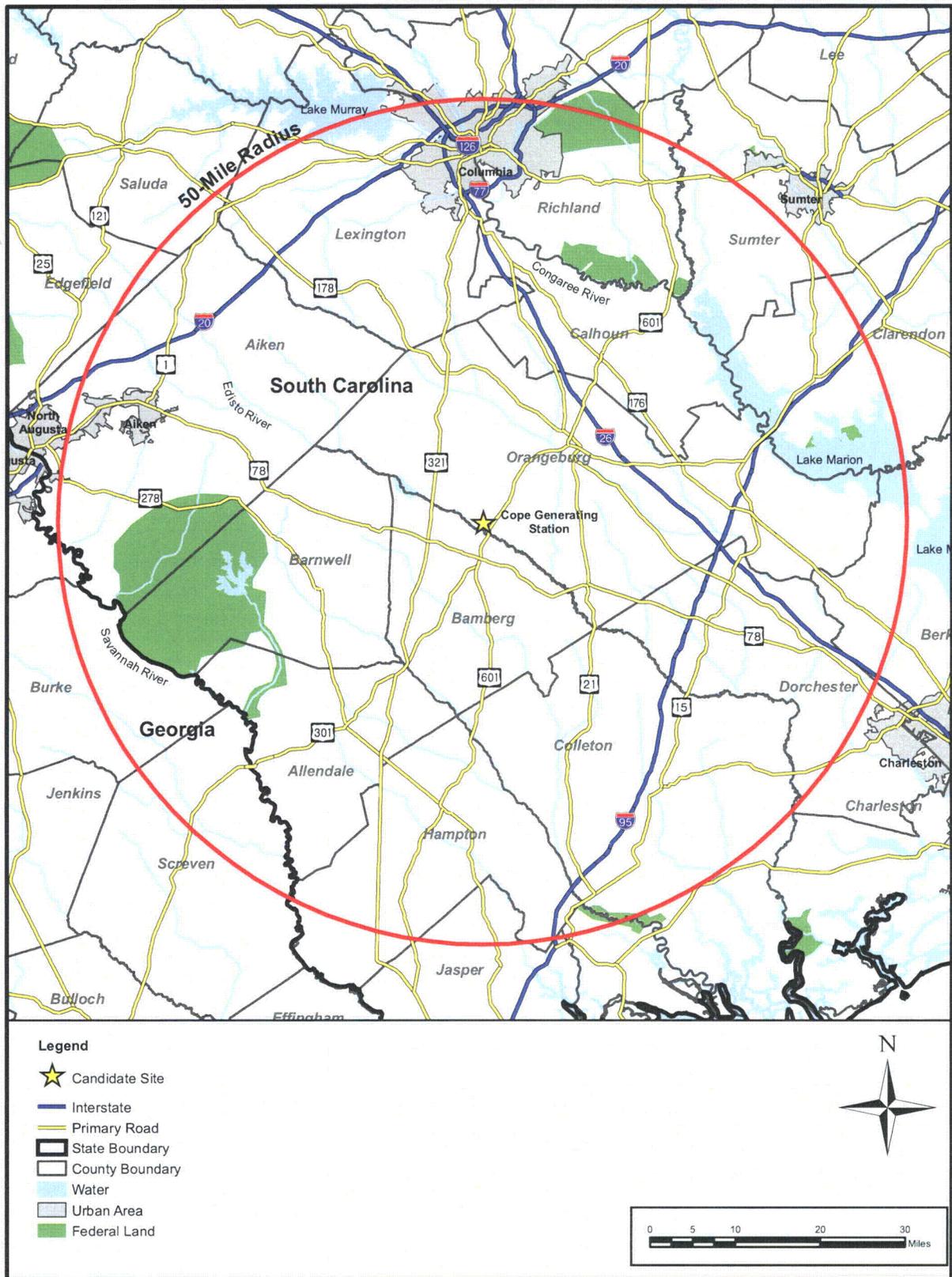


Figure 9.3-6 Cope Generating Station

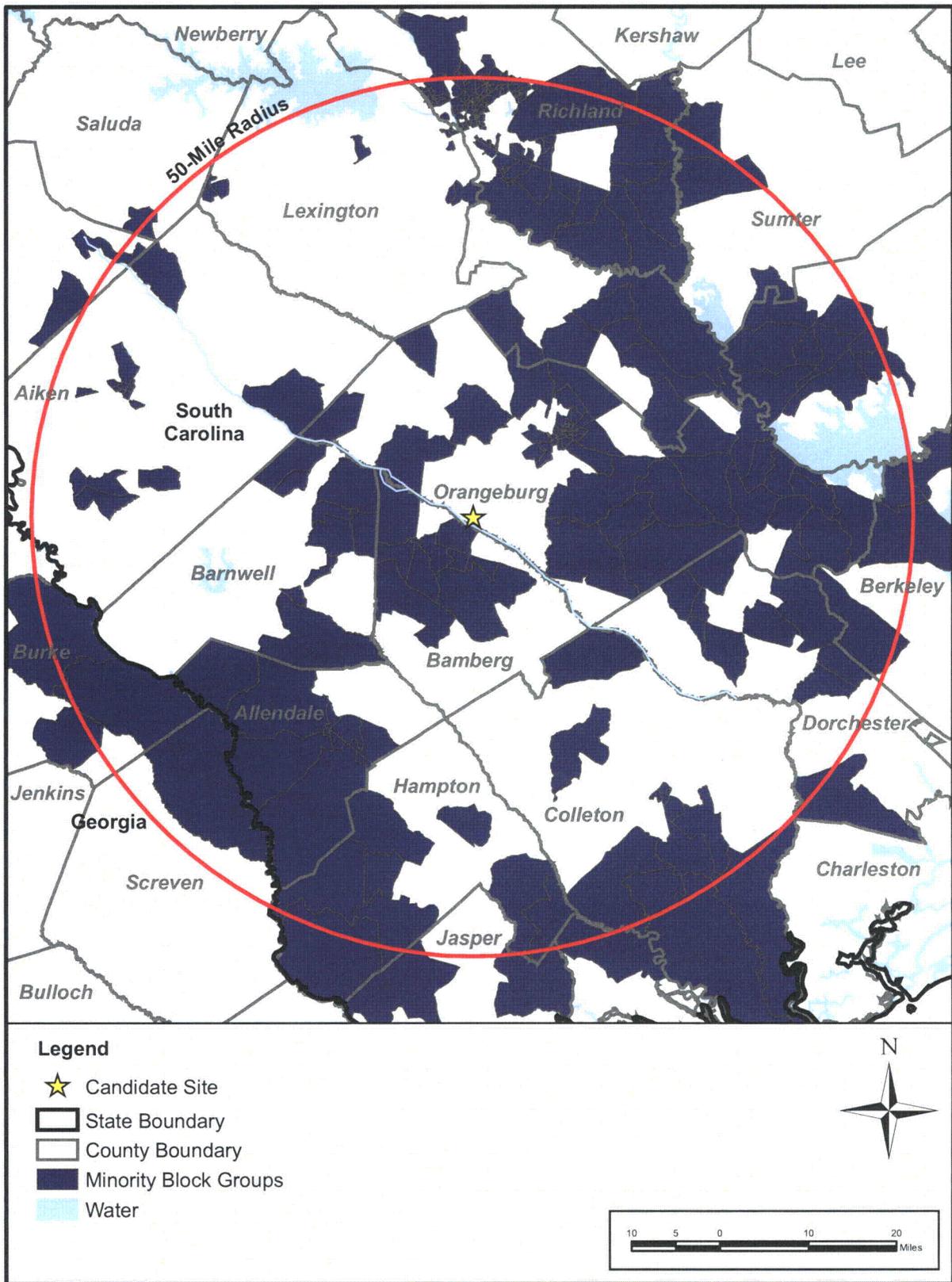


Figure 9.3-7 Minority Block Groups within 50 Miles of Cope Generating Station

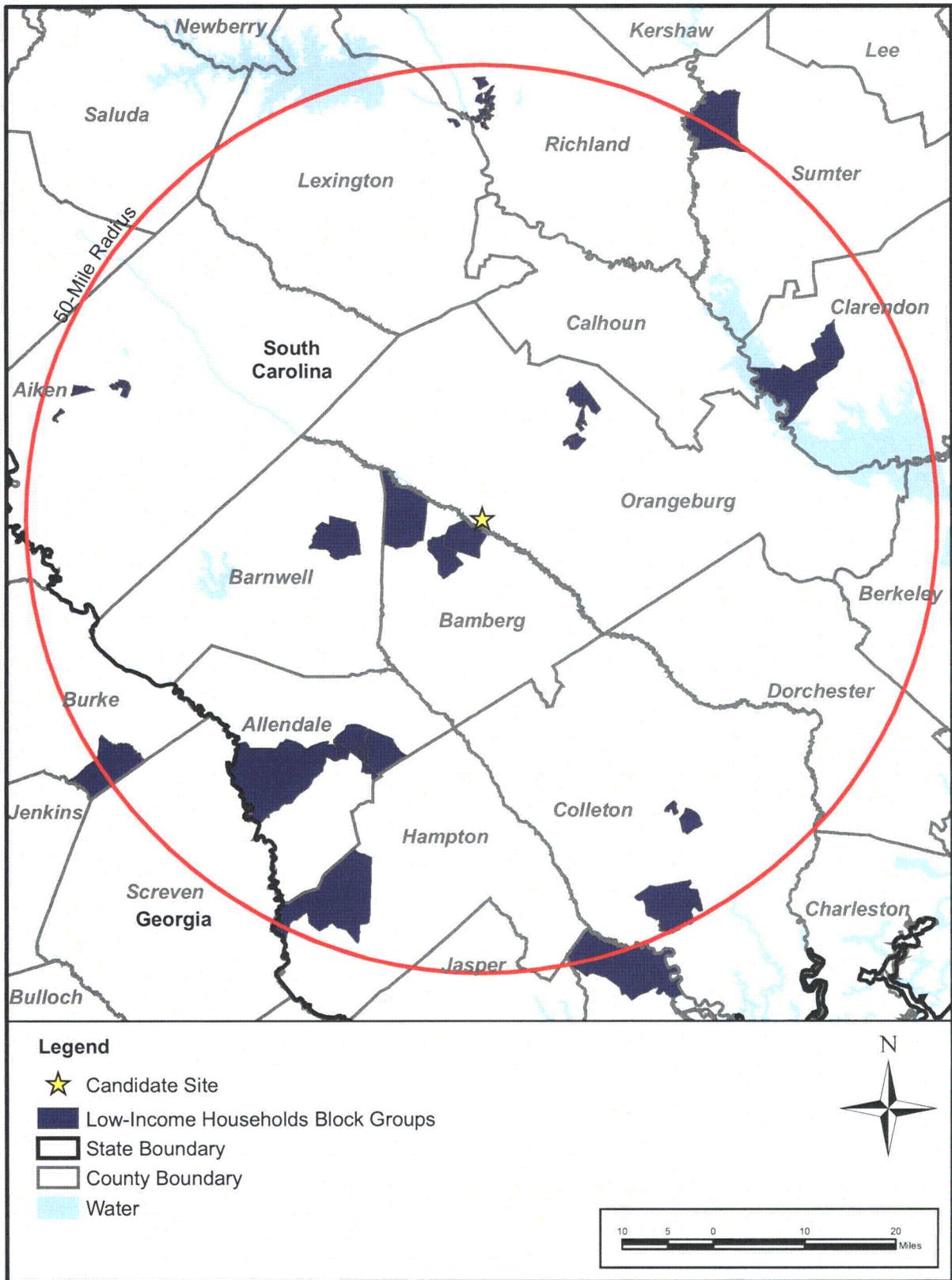


Figure 9.3-8 Low-Income Households Block Groups within 50 Miles of Cope Generating Station

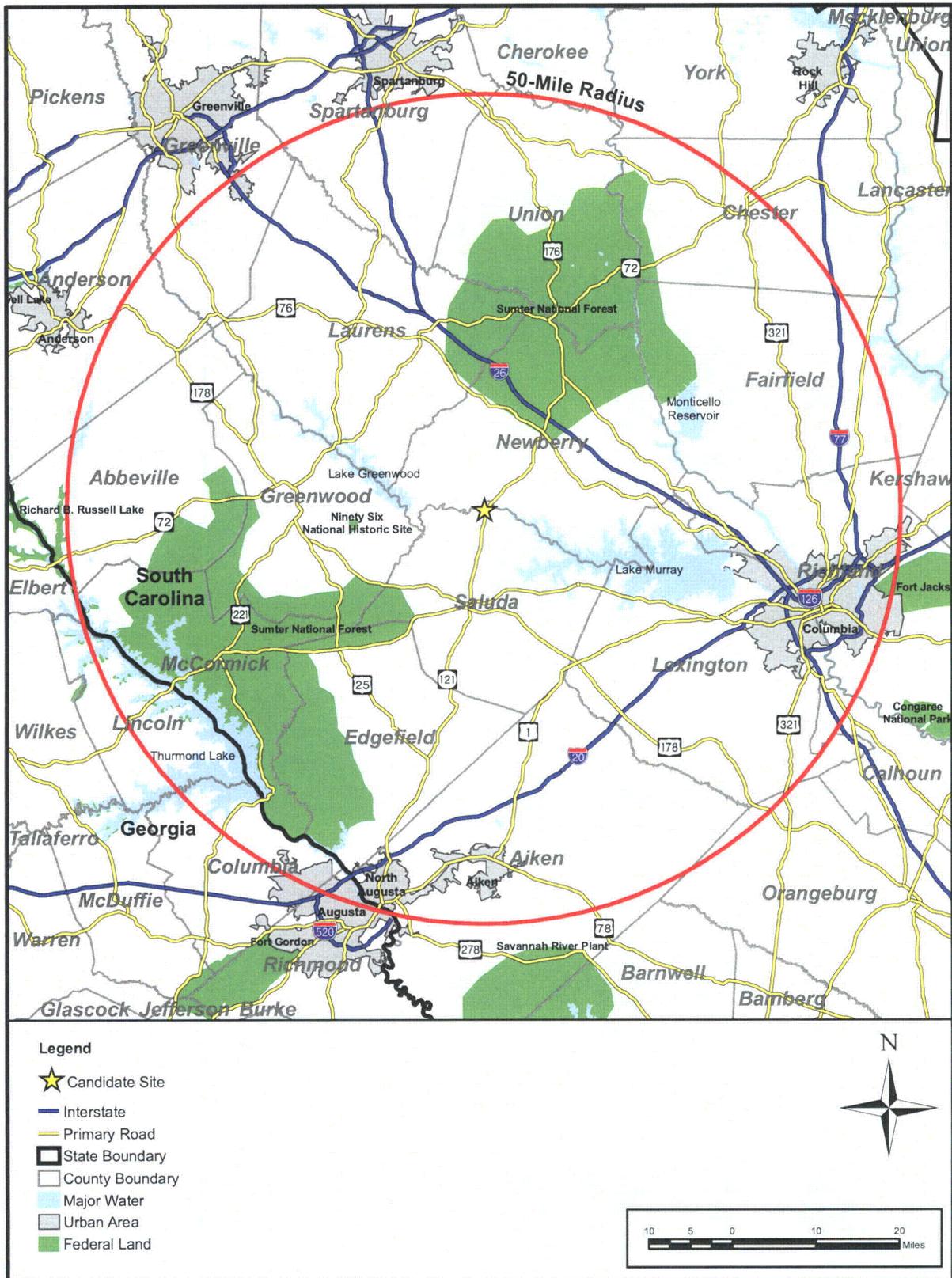


Figure 9.3-9 Saluda Site

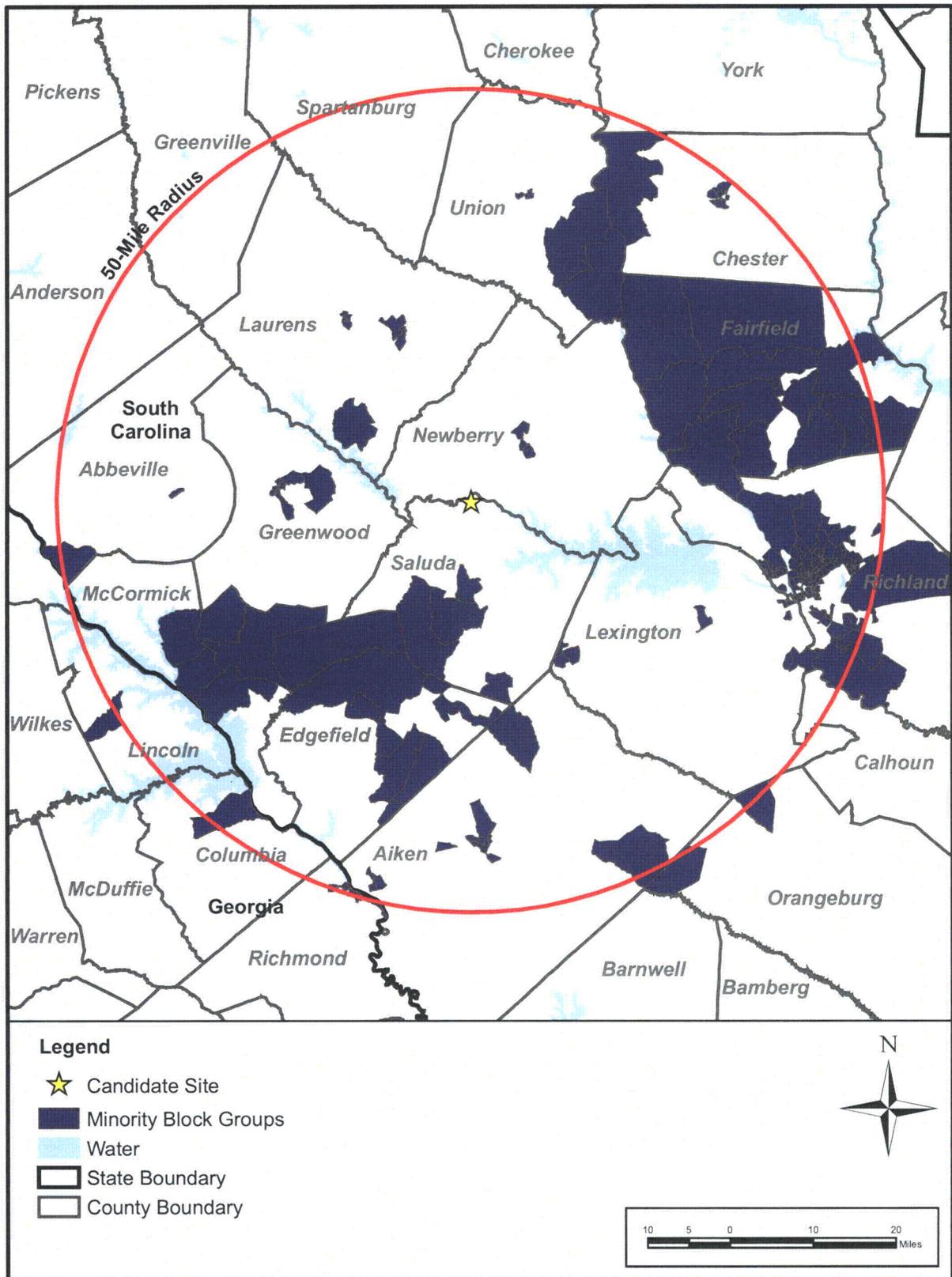


Figure 9.3-10 Minority Block Groups within 50 Miles of the Saluda Site

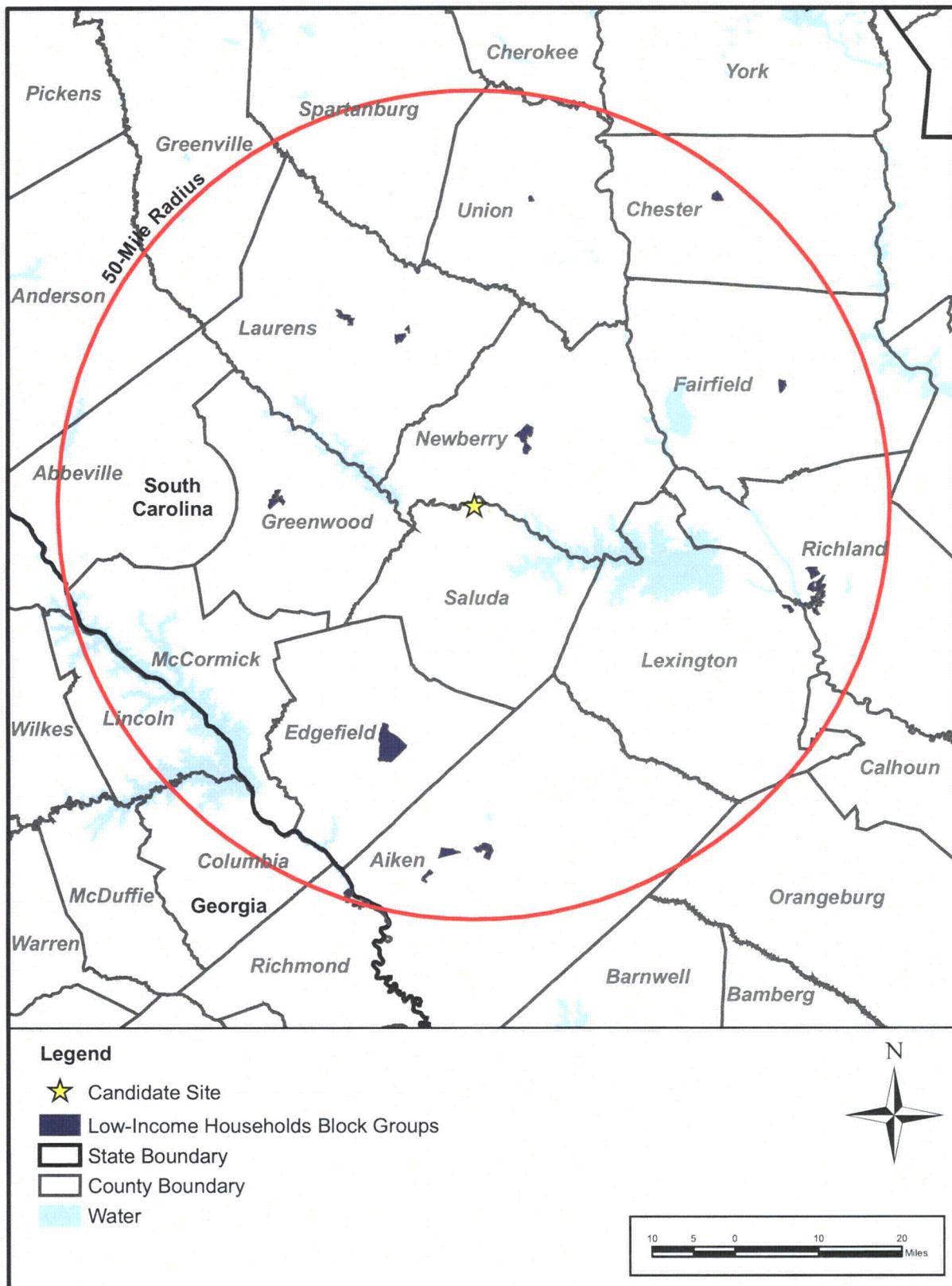


Figure 9.3-11 Low-Income Households Block Groups within 50 Miles of the Saluda Site

