Ronald B. Clary
General Manager
New Nuclear Deployment

SCE&G®
A SCANA COMPANY

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
NRO

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.

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

Executed on this 20th 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

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
Bedrcok_September_06_B.dbf
Bedrcok_September_06_B.sbn
Bedrcok_September_06_B.sbx
Bedrcok_September_06_B.shp
Bedrcok_September_06_B.shx
Bedrock_June_06_A.dbf
Bedrock_June_06_A.sbn
Bedrock_June_06_A.sbx
Bedrock_June_06_A.shp
Bedrock_June_06_A.shx
Broad_River.dbf
Broad_River.prj
Broad_River.sbn
Broad_River.sbx
Broad_River.shp
Broad_River.shp.xml
Broad_River.shx
BroadRiverParrSPFeet.dbf
BroadRiverParrSPFeet.prj
BroadRiverParrSPFeet.sbn
BroadRiverParrSPFeet.sbx
BroadRiverParrSPFeet.shp
BroadRiverParrSPFeet.shp.xml
BroadRiverParrSPFeet.shx
dip_contour_rast.dbf
dip_contour_rast.prj
dip_contour_rast.sbn
dip_contour_rast.sbx
dip_contour_rast.shp
dip_contour_rast.shx
Clip_streets.dbf
Clip_streets.prj
Clip_streets.sbn
Clip_streets.sbx
Clip_streets.shp
Clip_streets.shp.xml
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
December 07 - bedrock.dbf
December 07 - bedrock.sbn
December 07 - bedrock.sbx
December 07 - bedrock.shp
December 07 - bedrock.shp.xml
December 07 - bedrock.shx
Existing_proposed.dbf
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
gw_OW.shp
gw_OW.shx
June07_Bedrock_Contours.DBF
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
Monti_Areas.sbn
Monti_Areas.sbx
Monti_Areas.shp
Monti_Areas.shx
Names2.dbf
Names2.prj
Names2.sbn
Names2.sbx
Names2.shp
Names2.shx
Names3.dbf
Names3.prj
Names3.sbn
Names3.sbx
Names3.shp
Names3.shx
Names.dbf
Names.prj
Names.sbn
Names.sbx
Names.shp
Names.shx
navestrm_rft2.dbf
navestrm_rft2.prj
navestrm_rft2.sbn
navestrm_rft2.sbx
navestrm_rft2.shp
navestrm_rft2.shp.xml
navestrm_rft2.shx
navlake.dbf
navlake.prj
navlake.sbn
navlake.sbx
navlake.shp
navlake.shp.xml
navlake.shx
nwp401.dbf
nwp401.prj
nwp401.shp
nwp401.shp.xml
nwp401.shx
O_test3.dbf
O_test3.prj
O_test3.sbn
O_test3.sbx
O_test3.shp
O_test3.shx
O_test.dbf
O_test.prj
O_test.sbn
O_test.sbx
O_test.shp
O_test.shx
Parr_dam.dbf
Parr_dam.prj
Parr_dam.sbn
Parr_dam.sbx
Parr_dam.shp
Parr_dam.shp.xml
Parr_dam.shx
ParrDam_+.dbf
ParrDam_+.prj
ParrDam_+.sbn
ParrDam_+.sbx
ParrDam_+.shp
ParrDam_+.shp.xml
ParrDam_+.shx
pgwcbow.dbf
pgwcbow.prj
pgwcbow.sbn
pgwcbow.sbx
pgwcbow.shp
pgwcbow.shp.xml
pgwcbow.shx
SC_3Cities.dbf
SC_3Cities.prj
SC_3Cities.sbn
SC_3Cities.sbx
SC_3Cities.shp
SC_3Cities.shp.xml
SC_3Cities.shx
SC_hydrogl020.dbf
SC_hydrogl020.prj
SC_hydrogl020.sbn
SC_hydrogl020.sbx
SC_hydrogl020.shp
SC_hydrogl020.shp.xml
SC_hydrogl020.shx
SC_sitys.dbf
SC_sitys.prj
SC_sitys.sbn
SC_sitys.sbx
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

VC_SUMMER_FOR_SanFransisco3Poly2.shp.xml
VC_SUMMER_FOR_SanFransisco3Poly2.shx
VC_SUMMER_FOR_SanFransisco3Poly_clipa.dbf
VC_SUMMER_FOR_SanFransisco3Poly_clipa.sbn
VC_SUMMER_FOR_SanFransisco3Poly_clipa.sbx
VC_SUMMER_FOR_SanFransisco3Poly_clipa.shp
VC_SUMMER_FOR_SanFransisco3Poly_clipa.shp.xml
VC_SUMMER_FOR_SanFransisco3Poly_clipa.shx
VC_SUMMER_FOR_test_Polygon2.dbf
VC_SUMMER_FOR_test_Polygon2.sbn
VC_SUMMER_FOR_test_Polygon2.sbx
VC_SUMMER_FOR_test_Polygon2.shp
VC_SUMMER_FOR_test_Polygon2.shp.xml
VC_SUMMER_FOR_test_Polygon2.shx
VC_SUMMER_FOR_test_Polygon.dbf
VC_SUMMER_FOR_test_Polygon.sbn
VC_SUMMER_FOR_test_Polygon.sbx
VC_SUMMER_FOR_test_Polygon.shp
VC_SUMMER_FOR_test_Polygon.shp.xml
VC_SUMMER_FOR_test_Polygon.shx
VC_SUMMER_FOR_test_Polyline.dbf
VC_SUMMER_FOR_test_Polyline.sbn
VC_SUMMER_FOR_test_Polyline.sbx
VC_SUMMER_FOR_test_Polyline.shp
VC_SUMMER_FOR_test_Polyline.shp.xml
VC_SUMMER_FOR_test_Polyline.shx
water quality stations2.txt
water quality stations.txt
wotwershed_polyE.dbf
wotwershed_polyE.prj
wotwershed_polyE.sbn
wotwershed_polyE.sbx
wotwershed_polyE.shp
wotwershed_polyE.shp.xml
wotwershed_polyE.shx

XY_EP_WQ_Stations_test.dbf
XY_EP_WQ_Stations_test.prj
XY_EP_WQ_Stations_test.sbn
XY_EP_WQ_Stations_test.sbx
XY_EP_WQ_Stations_test.shp
XY_EP_WQ_Stations_test.shx
XYgw_(bedrock)_June_07.dbf
XYgw_(bedrock)_June_07.sbn
XYgw_(bedrock)_June_07.sbx
XYgw_(bedrock)_June_07.shp
XYgw_(bedrock)_June_07.shx
XYgw_(bedrock)_March_07.dbf
XYgw_(bedrock)_March_07.sbn
XYgw_(bedrock)_March_07.sbx
XYgw_(bedrock)_March_07.shp
XYgw_(bedrock)_March_07.shx
XYgw_(upper)_June_07.dbf
XYgw_(upper)_June_07.sbn
XYgw_(upper)_June_07.sbx
XYgw_(upper)_June_07.shp
XYgw_(upper)_June_07.shx
XYgw_(upper)_March_07.dbf
XYgw_(upper)_March_07.sbn
XYgw_(upper)_March_07.sbx
XYgw_(upper)_March_07.shp
XYgw_(upper)_March_07.shx
XYwater_quality_stations2.dbf
XYwater_quality_stations2.sbn
XYwater_quality_stations2.sbx
XYwater_quality_stations2.shp
XYwater_quality_stations2.shx
XYwater_quality_stations3.dbf
XYwater_quality_stations3.sbn
XYwater_quality_stations3.sbx
XYwater_quality_stations3.shp

XYwater_quality_stations3.shx
XYwater_quality_stations.dbf
XYwater_quality_stations.prj
XYwater_quality_stations.sbn
XYwater_quality_stations.sbx
XYwater_quality_stations.shp
XYwater_quality_stations.shx

GIS files for ER2.3 Figures\tin4

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

Directory of GIS File Contents

GIS files for TtNUS Figures

- add-ins
- AlternateSites
- archaeological
- 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
- 2.4-2 T&E Surveys.mxd
- 2.4-3 Small Mammal Trapping Transects.mxd
- 2.5-1 10-mile sectors.mxd
- 2.5-2 50-Mile sectors.mxd
- 2.5-3 Road and Highway Transportation System.mxd
- 2.5-4 Airports and Rails.mxd
- 2.5-5 Cultural Surveys.mxd
- 2.5-5 Cultural Surveys.mxd.xml
- 2.5-6 EJ Black Minority.mxd
- 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
- 2.5-11 EJ Low Income.mxd
- 2.8-1 Anthropogenic Radiation Sources.mxd
- 4.3-1 Disturbed Areas.mxd
- 5.3-4 Thermal Mixing Zone of Discharge.mxd
- 5.8-1 Closest Residences.mxd
- 6.2-1 Existing Rad Samples Remote.mxd
- 6.2-2 Existing Rad Samples Local.mxd
- 6.2-3 Rad Sample Locations.mxd
- 6.3-1 Observation Wells.mxd
- 9.3-3 SRS.mxd
- 9.3-4 SRS Minority.mxd
- 9.3-5 SRS Low-Income.mxd
- 9.3-6 CopeGeneratingStation.mxd
- 9.3-7 CopeGeneratingStation Minority.mxd
- 9.3-7 CopeGeneratingStation Minority.mxd.xml
- 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

GIS files for TtNUS Figures\add-ins

- 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

Directory of GIS File Contents

GIS files for TtNUS Figures\AlternateSites

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

GIS files for TtNUS Figures\archaeological

- archaeological_readme.txt
- cemetery_boundary.dbf
- cemetery_boundary.prj
- cemetery_boundary.sbn
- cemetery_boundary.sbx
- cemetery_boundary.shp
- cemetery_boundary.shp.xml
- cemetery_boundary.shx
- cultural_survey.dbf
- cultural_survey.prj
- cultural_survey.sbn
- cultural_survey.sbx
- cultural_survey.shp
- cultural_survey.shp.xml
- cultural_survey.shx
- SurveyAreaNAD27.dbf
- SurveyAreaNAD27.prj
- SurveyAreaNAD27.sbn
- SurveyAreaNAD27.sbx
- SurveyAreaNAD27.shp
- SurveyAreaNAD27.shp.xml
- SurveyAreaNAD27.shx
- VCSummersiters.sbn

GIS files for TtNUS Figures\boundary

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

GIS files for TtNUS Figures\buffers

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

GIS files for TtNUS Figures\CAD

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

Directory of GIS File Contents

\GIS files for TtNUS Figures\census

- Cope
- data
- SaludaCo
- SRS
- aggregate.dbf
- aggregate.prj
- aggregate.sbn
- aggregate.sbx
- aggregate.shp
- aggregate.shp.xml
- aggregate.shx
- ai_an.dbf
- ai_an.prj
- ai_an.sbn
- ai_an.sbx
- ai_an.shp
- ai_an.shp.xml
- ai_an.shx
- asian.dbf
- asian.prj
- asian.sbn
- asian.sbx
- asian.shp
- asian.shp.xml
- asian.shx
- at_tigeresri18261456.zip
- at_tigeresri482814913.zip
- at_tigeresri678211403.zip
- black.dbf
- black.prj
- black.sbn
- black.sbx
- black.shp
- black.shp.xml
- black.shx
- blk0045039.zip
- blockgroups50.dbf
- blockgroups50.prj
- blockgroups50.sbn
- blockgroups50.sbx
- blockgroups50.shp
- blockgroups50.shp.xml
- blockgroups50.shx
- census_readme.txt
- EJ_DATA.DBF
- EJ_DATA.dbf.xml
- hispanic.dbf
- hispanic.prj
- hispanic.sbn
- hispanic.sbx
- hispanic.shp
- hispanic.shp.xml
- hispanic.shx
- low_income.dbf
- low_income.prj
- low_income.sbn
- low_income.sbx
- low_income.shp
- low_income.shp.xml
- low_income.shx
- readme.html
- schema.ini

GIS files for TtNUS Figures\census\Cope

- cope_bgs.dbf
- cope_bgs.prj
- cope_bgs.sbn
- cope_bgs.sbx
- cope_bgs.shp
- cope_bgs.shp.xml
- cope_bgs.shx
- Cope_DATA.DBF
- Cope_DATA.SFID.atx
- cope_readme.txt
- metadata.sgml

GIS files for TtNUS Figures\census\data

- Acc2000.zip
- Access97.zip
- at_tigeresri3819114140.zip
- data_readme.txt
- nc00001_uf1.zip
- nc00008_uf3.zip
- NC_LI_data.zip
- NC_race_data.zip
- nc_sf1_u_data1.xls
- nc_sf3_u_data1.xls
- ncgeo_uf1.zip
- ncgeo_uf3.zip
- NCSF1.mdb
- NCSF3.mdb
- readme.html
- SC2000SF1.mdb
- SC_LI_data.zip
- SC_race_data.zip
- sc_sf1_u_data1.xls
- sc_sf3_u_data1.xls
- SCSF3.mdb
- SF1.MDB
- sf1blk45000.zip
- tgr45000sf1blk.dbf
- tgr45000sf1blk.STFID.atx

GIS files for TtNUS Figures\census\SaludaCo

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

GIS files for TtNUS Figures\census\SRS

- data
- 2000scbgdata.dbf.xml
- schema.ini
- SRS_50milebg.dbf
- SRS_50milebg.prj
- SRS_50milebg.sbn
- SRS_50milebg.sbx
- SRS_50milebg.shp
- SRS_50milebg.shp.xml
- SRS_50milebg.shx
- SRS_readme.txt
- SRS_readme.txt.xml

GIS files for TtNUS Figures\census\SRS\data

- SRS_DATA.DBF
- SRS_DATA.SFID.atx

Directory of GIS File Contents

GIS files for TtNUS Figures\ecological

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

GIS files for TtNUS Figures\ecological\trapping

- schema.ini
- trapping_readme.txt
- trapping_readme.txt.xml
- trapping_transects.dbf
- trapping_transects.prj
- trapping_transects.sbn
- trapping_transects.sbx
- trapping_transects.shp
- trapping_transects.shp.xml
- trapping_transects.shx

GIS files for TtNUS Figures\LULC

- datum_reference.txt
- datum_reference.txt.xml
- EPA 1998.pdf
- lulc_6mile.dbf
- lulc_6mile.prj
- lulc_6mile.sbn
- lulc_6mile.sbx
- lulc_6mile.shp
- lulc_6mile.shp.xml
- lulc_6mile.shx
- lulc_merge.dbf
- lulc_merge.prj
- lulc_merge.sbn
- lulc_merge.sbx
- lulc_merge.shp
- lulc_merge.shp.xml
- lulc_merge.shx
- lulc_readme.txt
- lulc_readme.txt.xml
- schema.ini

GIS files for TtNUS Figures\new_plant_features

- centroid.dbf
- centroid.prj
- centroid.sbn
- centroid.sbx
- centroid.shp
- centroid.shp.xml
- centroid.shx
- construction_poly.dbf
- construction_poly.prj
- construction_poly.sbn
- construction_poly.sbx
- construction_poly.shp
- construction_poly.shp.xml
- construction_poly.shx
- layout_0107.dbf
- layout_0107.prj
- layout_0107.sbn
- layout_0107.sbx
- layout_0107.shp
- layout_0107.shp.xml
- layout_0107.shx
- new_EAB.dbf
- new_EAB.prj
- new_EAB.sbn
- new_EAB.sbx
- new_EAB.shp
- new_EAB.shp.xml
- new_EAB.shx
- new_plant_features_readme.txt
- plot.log
- site_rds.dbf
- site_rds.prj
- site_rds.sbn
- site_rds.sbx
- site_rds.shp
- site_rds.shp.xml
- site_rds.shx
- spoils.dbf
- spoils.prj
- spoils.sbn
- spoils.sbx
- spoils.shp
- spoils.shp.xml
- spoils.shx
- switchyard_new.dbf
- switchyard_new.prj
- switchyard_new.sbn
- switchyard_new.sbx
- switchyard_new.shp
- switchyard_new.shp.xml
- switchyard_new.shx
- Thumbs.db
- unit1_containmen_building.dbf
- unit1_containmen_building.prj
- unit1_containmen_building.sbn
- unit1_containmen_building.sbx
- unit1_containmen_building.shp
- unit1_containmen_building.shp.xml
- unit1_containmen_building.shx
- unit2_and_3_containment_buildings.dbf
- unit2_and_3_containment_buildings.prj
- unit2_and_3_containment_buildings.sbn
- unit2_and_3_containment_buildings.sbx
- unit2_and_3_containment_buildings.shp
- unit2_and_3_containment_buildings.shp.xml
- unit2_and_3_containment_buildings.shx

Directory of GIS File Contents

GIS files for TtNUS Figures\pdfs

- 2.1-1 VCSNS Site and the Proposed Footprint.pdf
- 2.1-2 50-Mile Vicinity.pdf
- 2.1-3 6-Mile Vicinity.pdf
- 2.2-1 Land Use on the Proposed Site.pdf
- 2.2-2 Land Use in the Vicinity.pdf
- 2.2-3 Existing Transmission System for Unit1.pdf
- 2.2-4 Proposed Transmission System.pdf
- 2.2-5 Land Use in the Region.pdf
- 2.3-20 Wetlands in the Proj Area.pdf
- 2.4-1 Habitats and Areas in the Proj Area.pdf
- 2.4-2 T&E Surveys.pdf
- 2.4-3 Small Mammal Trapping Transects.pdf
- 2.5-1 10-mile sectors.pdf
- 2.5-2 50-Mile sectors.pdf
- 2.5-3 Road and Highway Transportation System.pdf
- 2.5-4 Airports and Rails.pdf
- 2.5-5 Cultural Surveys.pdf
- 2.5-6 EJ Black Minority.pdf
- 2.5-7 EJ AI_AN Minority.pdf
- 2.5-8 EJ Asian Minority.pdf
- 2.5-9 EJ Aggregate Minority.pdf
- 2.5-10 EJ Hispanic Minority.pdf
- 2.5-11 EJ Low Income.pdf
- 2.8-1 Anthropogenic Radiation Sources.pdf
- 4.3-1 Disturbed Areas.pdf
- 5.3-4 Thermal Mixing Zone of Discharge.pdf
- 5.8-1 Closest Residences.pdf
- 6.2-1 Existing Rad Samples Remote.pdf
- 6.2-2 Existing Rad Samples Local.pdf
- 6.2-3 Rad Sample Locations.pdf
- 6.3-1 Observation Wells.pdf
- 9.3-3 SRS.pdf
- 9.3-4 SRS Minority.pdf
- 9.3-5 SRS Low-Income.pdf
- 9.3-6 CopeGeneratingStation.pdf
- 9.3-7 CopeGeneratingStation Minority.pdf
- 9.3-8 CopeGeneratingStation Low-Income.pdf
- 9.3-9 SaludaSite.pdf
- 9.3-10 SaludaCountySite Minority.pdf
- 9.3-11 SaludaCountySite Low-Income.pdf
- pdfs_readme.txt
- pdfs_readme.txt.xml
- schema.ini
- Thumbs.db

GIS files for TtNUS Figures\places

- cities.dbf
- cities.prj
- cities.sbn
- cities.sbx
- cities.shp
- cities.shp.xml
- cities.shx
- columbia.dbf
- columbia.prj
- columbia.sbn
- columbia.sbx
- columbia.shp
- columbia.shp.xml
- columbia.shx
- congareeNP.dbf
- congareeNP.prj
- congareeNP.sbn
- congareeNP.sbx
- congareeNP.shp
- congareeNP.shp.xml
- congareeNP.shx
- fed_land.dbf
- fed_land.prj
- fed_land.sbn
- fed_land.sbx
- fed_land.shp
- fed_land.shp.xml
- fed_land.shx
- metadata.sgml
- nrcsitx020.met
- nukeplants.dbf
- nukeplants.prj
- nukeplants.sbn
- nukeplants.sbx
- nukeplants.shp
- nukeplants.shp.xml
- nukeplants.shx
- parks.dbf
- parks.prj
- parks.sbn
- parks.sbx
- parks.sgml
- parks.shp
- parks.shp.xml
- parks.shx
- place.dbf
- place.prj
- place.sbn
- place.sbx
- place.shp
- place.shp.xml
- place.shx
- places_readme.txt
- places_readme.txt.xml
- rad_sources.dbf
- rad_sources.prj
- rad_sources.sbn
- rad_sources.sbx
- rad_sources.sgml
- rad_sources.shp
- rad_sources.shp.xml
- rad_sources.shx
- residences.dbf
- residences.prj
- residences.sbn
- residences.sbx
- residences.shp
- residences.shp.xml
- residences.shx
- SC_gppl.dbf
- SC_gppl.prj
- SC_gppl.sbn
- SC_gppl.sbx
- SC_gppl.shp
- SC_gppl.shp.xml
- SC_gppl.shx
- schema.ini
- scparks.dbf
- scparks.prj
- scparks.sbn
- scparks.sbx
- scparks.shp
- scparks.shp.xml
- scparks.shx
- urban.dbf
- urban.prj
- urban.sbn
- urban.sbx
- urban.shp
- urban.shp.xml
- urban.shx
- usforest_polys.dbf
- usforest_polys.shp
- usforest_polys.shp.xml
- usforest_polys.shx

GIS files for TtNUS Figures\rad_samples

- existing_samples.dbf
- existing_samples.prj
- existing_samples.sbn
- existing_samples.sbx
- existing_samples.shp
- existing_samples.shp.xml
- existing_samples.shx
- rad_samples_readme.txt
- schema.ini

Directory of GIS File Contents

GIS files for TtNUS Figures\tiger

merge_tigerpoly.dbf
merge_tigerpoly.prj
merge_tigerpoly.sbn
merge_tigerpoly.sbx
merge_tigerpoly.shp
merge_tigerpoly.shp.xml
merge_tigerpoly.shx
NC_Union_County.dbf
NC_Union_County.prj
NC_Union_County.shp
NC_Union_County.shx
NC_Union_County_Poly.dbf
NC_Union_County_Poly.shp
NC_Union_County_Poly.shx
SC.zip
SC_Aiken_County.dbf
SC_Aiken_County.prj
SC_Aiken_County.shp
SC_Aiken_County.shx
SC_Aiken_County_Poly.dbf
SC_Aiken_County_Poly.shp
SC_Aiken_County_Poly.shx
SC_Calhoun_County.dbf
SC_Calhoun_County.prj
SC_Calhoun_County.shp
SC_Calhoun_County.shx
SC_Calhoun_County_Poly.dbf
SC_Calhoun_County_Poly.shp
SC_Calhoun_County_Poly.shx
SC_Cherokee_County.dbf
SC_Cherokee_County.prj
SC_Cherokee_County.shp
SC_Cherokee_County.shx
SC_Cherokee_County_Poly.dbf
SC_Cherokee_County_Poly.shp
SC_Cherokee_County_Poly.shx
SC_Chester_County.dbf
SC_Chester_County.prj
SC_Chester_County.shp
SC_Chester_County.shx
SC_Chester_County_Poly.dbf
SC_Chester_County_Poly.shp
SC_Chester_County_Poly.shx
SC_Edgefield_County.dbf
SC_Edgefield_County.prj
SC_Edgefield_County.shp
SC_Edgefield_County.shx
SC_Edgefield_County_Poly.dbf
SC_Edgefield_County_Poly.shp
SC_Edgefield_County_Poly.shx
SC_Fairfield_County.dbf
SC_Fairfield_County.prj
SC_Fairfield_County.sbn
SC_Fairfield_County.sbx
SC_Fairfield_County.shp
SC_Fairfield_County.shx
SC_Fairfield_County_Poly.dbf
SC_Fairfield_County_Poly.prj
SC_Fairfield_County_Poly.sbn
SC_Fairfield_County_Poly.sbx
SC_Fairfield_County_Poly.shp
SC_Fairfield_County_Poly.shx
SC_Greenwood_County.dbf
SC_Greenwood_County.prj
SC_Greenwood_County.shp
SC_Greenwood_County.shx
SC_Greenwood_County_Poly.dbf
SC_Greenwood_County_Poly.shp
SC_Greenwood_County_Poly.shx
SC_Kershaw_County.dbf
SC_Kershaw_County.prj
SC_Kershaw_County.shp
SC_Kershaw_County.shx
SC_Kershaw_County_Poly.dbf
SC_Kershaw_County_Poly.shp
SC_Kershaw_County_Poly.shx
SC_Lancaster_County.dbf
SC_Lancaster_County.prj
SC_Lancaster_County.shp
SC_Lancaster_County.shx
SC_Lancaster_County_Poly.dbf
SC_Lancaster_County_Poly.shp
SC_Lancaster_County_Poly.shx
SC_Laurens_County.dbf
SC_Laurens_County.prj
SC_Laurens_County.shp
SC_Laurens_County.shx
SC_Laurens_County_Poly.dbf
SC_Laurens_County_Poly.shp
SC_Laurens_County_Poly.shx
SC_Lee_County.dbf
SC_Lee_County.prj
SC_Lee_County.shp
SC_Lee_County.shp.xml
SC_Lee_County.shx
SC_Lee_County_Poly.dbf
SC_Lee_County_Poly.shp
SC_Lee_County_Poly.shx
SC_Lexington_County.dbf
SC_Lexington_County.prj
SC_Lexington_County.shp
SC_Lexington_County.shx
SC_Lexington_County_Poly.dbf
SC_Lexington_County_Poly.prj
SC_Lexington_County_Poly.sbn
SC_Lexington_County_Poly.sbx
SC_Lexington_County_Poly.shp
SC_Lexington_County_Poly.shx
SC_McCormick_County.dbf
SC_McCormick_County.prj
SC_McCormick_County.shp
SC_McCormick_County.shx
SC_McCormick_County_Poly.dbf
SC_McCormick_County_Poly.shp
SC_McCormick_County_Poly.shx
SC_Newberry_County.dbf
SC_Newberry_County.prj
SC_Newberry_County.sbn
SC_Newberry_County.sbx
SC_Newberry_County.shp
SC_Newberry_County.shx
SC_Newberry_County_Poly.dbf
SC_Newberry_County_Poly.prj
SC_Newberry_County_Poly.sbn
SC_Newberry_County_Poly.sbx
SC_Newberry_County_Poly.shp
SC_Newberry_County_Poly.shx
SC_Orangeburg_County.dbf
SC_Orangeburg_County.prj
SC_Orangeburg_County.shp
SC_Orangeburg_County.shx
SC_Orangeburg_County_Poly.dbf
SC_Orangeburg_County_Poly.shp
SC_Orangeburg_County_Poly.shx
SC_Richland_County.dbf
SC_Richland_County.prj
SC_Richland_County.shp
SC_Richland_County.shx
SC_Richland_County_Poly.dbf
SC_Richland_County_Poly.prj
SC_Richland_County_Poly.sbn
SC_Richland_County_Poly.sbx
SC_Richland_County_Poly.shp
SC_Richland_County_Poly.shx
SC_Saluda_County.dbf
SC_Saluda_County.prj
SC_Saluda_County.shp
SC_Saluda_County.shx
SC_Saluda_County_Poly.dbf
SC_Saluda_County_Poly.shp
SC_Saluda_County_Poly.shx
SC_Spartanburg_County.dbf
SC_Spartanburg_County.prj
SC_Spartanburg_County.shp
SC_Spartanburg_County.shp.xml
SC_Spartanburg_County.shx
SC_Spartanburg_County_Poly.dbf
SC_Spartanburg_County_Poly.shp
SC_Spartanburg_County_Poly.shx
SC_Sumter_County.dbf
SC_Sumter_County.prj
SC_Sumter_County.shp
SC_Sumter_County.shx
SC_Sumter_County_Poly.dbf
SC_Sumter_County_Poly.shp
SC_Sumter_County_Poly.shx
SC_Union_County.dbf
SC_Union_County.prj
SC_Union_County.shp
SC_Union_County.shx
SC_Union_County_Poly.dbf
SC_Union_County_Poly.shp
SC_Union_County_Poly.shx
SC_York_County.dbf
SC_York_County.prj
SC_York_County.shp
SC_York_County.shx
SC_York_County_Poly.dbf
SC_York_County_Poly.shp
SC_York_County_Poly.shx
schema.ini
TGR45079.ZIP
tiger_readme.txt
tiger_readme.txt.xml
tigerline_merge.dbf
tigerline_merge.prj
tigerline_merge.sbn
tigerline_merge.sbx
tigerline_merge.shp
tigerline_merge.shp.xml
tigerline_merge.shx

Directory of GIS File Contents

GIS files for TtNUS Figures\timber

- Recently_Harvested _Timber_Stands.dbf
- Recently_Harvested _Timber_Stands.prj
- Recently_Harvested _Timber_Stands.sbn
- Recently_Harvested _Timber_Stands.sbx
- Recently_Harvested _Timber_Stands.shp
- Recently_Harvested _Timber_Stands.shp.xml
- Recently_Harvested _Timber_Stands.shx
- schema.ini
- Stands.dbf
- Stands.prj
- Stands.sbn
- Stands.sbx
- Stands.shp
- Stands.shp.xml
- Stands.shx
- timber_readme.txt

GIS files for TtNUS Figures\transmission

- COL_Unit1_subs.dbf
- COL_Unit1_subs.prj
- COL_Unit1_subs.sbn
- COL_Unit1_subs.sbx
- COL_Unit1_subs.shp
- COL_Unit1_subs.shp.xml
- COL_Unit1_subs.shx
- proposed_substation_terminus.dbf
- proposed_substation_terminus.prj
- proposed_substation_terminus.sbn
- proposed_substation_terminus.sbx
- proposed_substation_terminus.shp
- proposed_substation_terminus.shp.xml
- proposed_substation_terminus.shx
- proposed_transmission_routes.dbf
- proposed_transmission_routes.prj
- proposed_transmission_routes.sbn
- proposed_transmission_routes.sbx
- proposed_transmission_routes.shp
- proposed_transmission_routes.shp.xml
- proposed_transmission_routes.shx
- t-lines.dbf
- t-lines.prj
- t-lines.sbn
- t-lines.sbx
- t-lines.shp
- t-lines.shp.xml
- t-lines.shx

GIS files for TtNUS Figures\transportation

- airports.zip
- CR_311.dbf
- CR_311.prj
- CR_311.sbn
- CR_311.sbx
- CR_311.shp
- CR_311.shp.xml
- CR_311.shx
- Fairfield_trafffic.pdf
- major_roads.dbf
- major_roads.prj
- major_roads.sbn
- major_roads.sbx
- major_roads.shp
- major_roads.shp.xml
- major_roads.shx
- public_airports.dbf
- public_airports.prj
- public_airports.sbn
- public_airports.sbx
- public_airports.shp
- public_airports.shp.xml
- public_airports.shx
- rr.dbf
- rr.sbn
- rr.sbx
- rr.shp
- rr.shp.xml
- rr.shx
- schema.ini
- traffic_patterns.dbf
- traffic_patterns.prj
- traffic_patterns.sbn
- traffic_patterns.sbx
- traffic_patterns.shp
- traffic_patterns.shp.xml
- traffic_patterns.shx
- transportation_readme.txt
- transportation_readme.txt.xml

GIS files for TtNUS Figures\utilities

- pipelines.dbf
- pipelines.prj
- pipelines.sbn
- pipelines.sbx
- pipelines.shp
- pipelines.shp.xml
- pipelines.shx
- pipelines.zip
- pipelines_readme.txt
- schema.ini

GIS files for TtNUS Figures\water

- groundwater
- major_water.dbf
- major_water.prj
- major_water.sbn
- major_water.sbx
- major_water.shp
- major_water.shp.xml
- major_water.shx
- mayo_creek.dbf
- mayo_creek.sbn
- mayo_creek.sbx
- mayo_creek.shp
- mayo_creek.shp.xml
- mayo_creek.shx
- mayo_drainage.dbf
- mayo_drainage.prj
- mayo_drainage.sbn
- mayo_drainage.sbx
- mayo_drainage.shp
- mayo_drainage.shp.xml
- mayo_drainage.shx
- monticello_reservoir.dbf
- monticello_reservoir.prj
- monticello_reservoir.sbn
- monticello_reservoir.sbx
- monticello_reservoir.shp
- monticello_reservoir.shp.xml
- monticello_reservoir.shx
- ocean.dbf
- ocean.prj
- ocean.sbn
- ocean.sbx
- ocean.shp
- ocean.shp.xml
- ocean.shx
- ocean.zip
- sample_streams.dbf
- sample_streams.prj
- sample_streams.sbn
- sample_streams.sbx
- sample_streams.shp
- sample_streams.shp.xml
- sample_streams.shx
- schema.ini
- streams.dbf
- streams.prj
- streams.sbn
- streams.sbx
- streams.shp
- streams.shp.xml
- streams.shx
- thermal plume.dbf
- thermal plume.prj
- thermal plume.sbn
- thermal plume.sbx
- thermal plume.shp
- thermal plume.shp.xml
- thermal plume.shx
- water_poly.dbf
- water_poly.prj
- water_poly.sbn
- water_poly.sbx
- water_poly.shp
- water_poly.shp.xml
- water_poly.shx
- water_readme.txt
- water_readme.txt.xml

Directory of GIS File Contents

GIS files for TtNUS Figures\water\groundwater

- groundwater_readme.txt
- groundwater_readme.txt.xml
- ob_wells.dbf
- ob_wells.dbf.xml
- ob_wells.xls
- schema.ini
- wells.dbf
- wells.prj
- wells.sbn
- wells.sbx
- wells.shp
- wells.shp.xml
- wells.shx

GIS files for TtNUS Figures\Wetlands

- schema.ini
- wetlands.dbf
- wetlands.prj
- wetlands.sbn
- wetlands.sbx
- wetlands.sgml
- wetlands.shp
- wetlands.shp.xml
- wetlands.shx
- wetlands_disturbed1208.dbf
- wetlands_disturbed1208.prj
- wetlands_disturbed1208.sbn
- wetlands_disturbed1208.sbx
- wetlands_disturbed1208.shp
- wetlands_disturbed1208.shp.xml
- wetlands_disturbed1208.shx
- wetlands_EAB.dbf
- wetlands_EAB.prj
- wetlands_EAB.sbn
- wetlands_EAB.sbx
- wetlands_EAB.shp
- wetlands_EAB.shp.xml
- wetlands_EAB.shx
- wetlands_readme.txt
- wetlands_readme.txt.xml

GIS files for TtNUS Figures\windrose

- tables
- LPZ_windrose.dbf
- LPZ_windrose.sbn
- LPZ_windrose.sbx
- LPZ_windrose.shp
- LPZ_windrose.shp.xml
- LPZ_windrose.shx
- schema.ini
- windrose.aih
- windrose.dbf
- windrose.sbn
- windrose.sbx
- windrose.shp
- windrose.shp.xml
- windrose.shx
- windrose_readme.txt
- windrose_readme.txt.xml

GIS files for TtNUS Figures\windrose\tables

- 0C316100
- 50mile_dir_sums.dbf
- county_growth.dbf
- county_growth.FIPS.atx
- direct10_sums.dbf
- direct50_sums.dbf
- sector_pop.dbf
- sector_pop.SECTOR_ID.atx
- sum_10mile.dbf
- sum_50mile.dbf
- sum_copop.CODE.atx
- sum_copop.dbf
- tables_readme.txt

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_ln.sdc
dtl_st_ln.sdc.prj
dtl_st_ln.sdc.xml
dtl_st_ln.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
hydroln.sdc
hydroln.sdc.prj
hydroln.sdc.xml
hydroln.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
Strees(Local)_5mi.dbf
Strees(Local)_5mi.prj
Strees(Local)_5mi.sbn
Strees(Local)_5mi.sbx
Strees(Local)_5mi.shp
Strees(Local)_5mi.shp.xml
Strees(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)

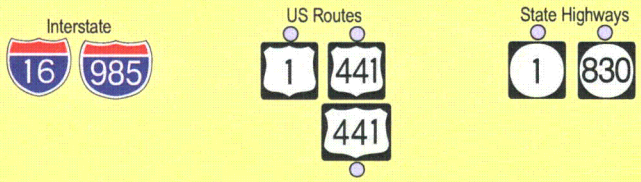
==========

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

==========

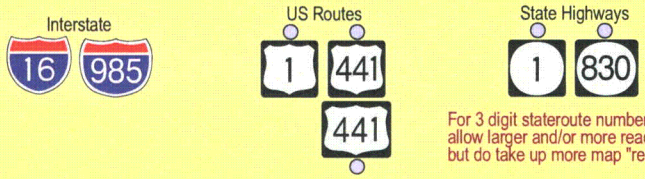
It is only necessary to install the specific series that you will be using. The following descriptions indicate which fonts and which markersets, palettes and/or styles must be installed for each series.

USDOT Series



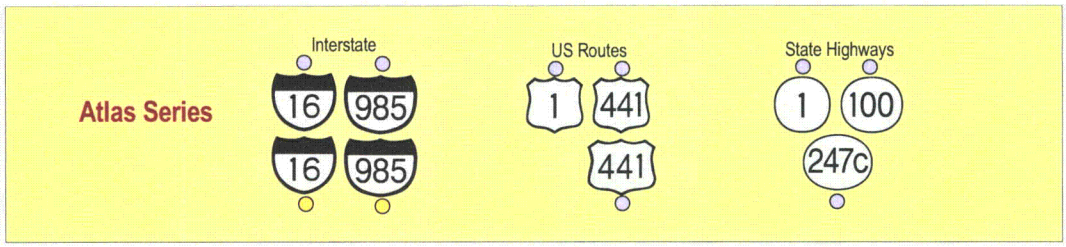
FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVGA01A.TTF	71001	DDVGA01A	DDVGA01A.MRK	DDVGA01A.AVP	DDVGA01A.Style
DDVGA02A.TTF	71002	DDVGA02A			
DDVGA03A.TTF	71003	DDVGA03A			
DDVGA04A.TTF	71004	DDVGA04A			

USDOT Series (Variant)

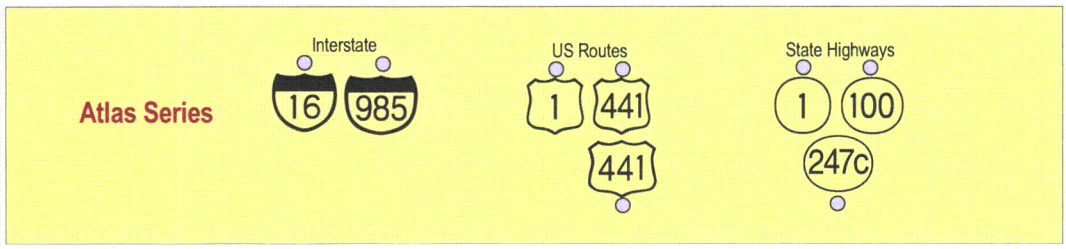


For 3 digit stateroute numbers, wider shields allow larger and/or more readable numbers, but do take up more map "real estate".

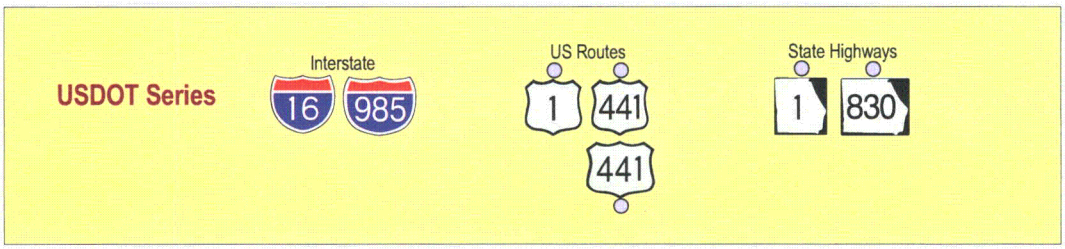
FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVGA05A.TTF	71005	DDVGA05A	DDVGA05A.MRK	DDVGA05A.AVP	DDVGA05A.Style
DDVGA06A.TTF	71006	DDVGA06A			
DDVGA07A.TTF	71007	DDVGA07A			
DDVGA08A.TTF	71008	DDVGA08A			



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

==========

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

ARCVIEW PALETTES: DDVxxxxx.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 IIa 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: DDVxxxxx.TTF Marker sets will always have at least one font and may have thirty or more. (e.g.: DDVCA01D.TTF, DDVMAP1B.TTF).

ARCVIEW PALETTES: DDVxxxxx.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: DDVxxxxx.TTF	Marker sets will always have at least one font and may have thirty or more. (e.g.: DDVCA01D.TTF, DDVMAP1B.TTF).
STYLESETS: DDVxxxxx.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.

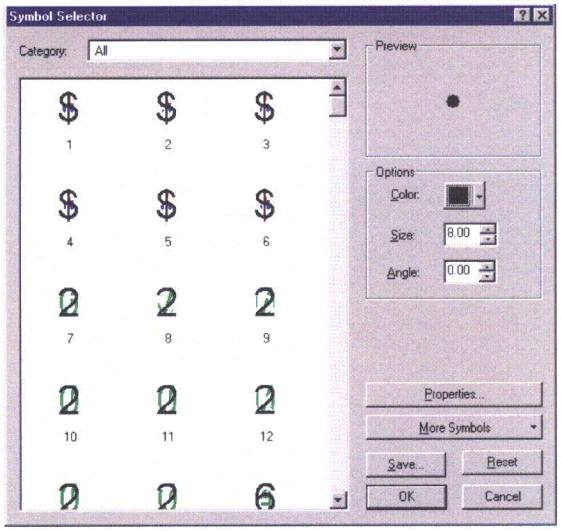
==========

Troubleshooting:

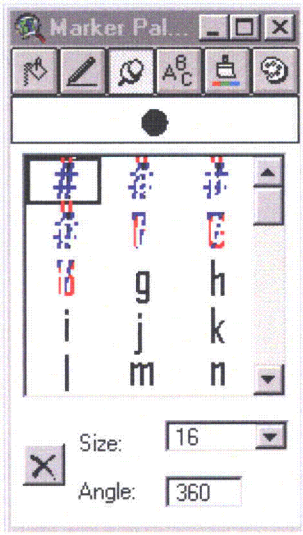
==========

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.

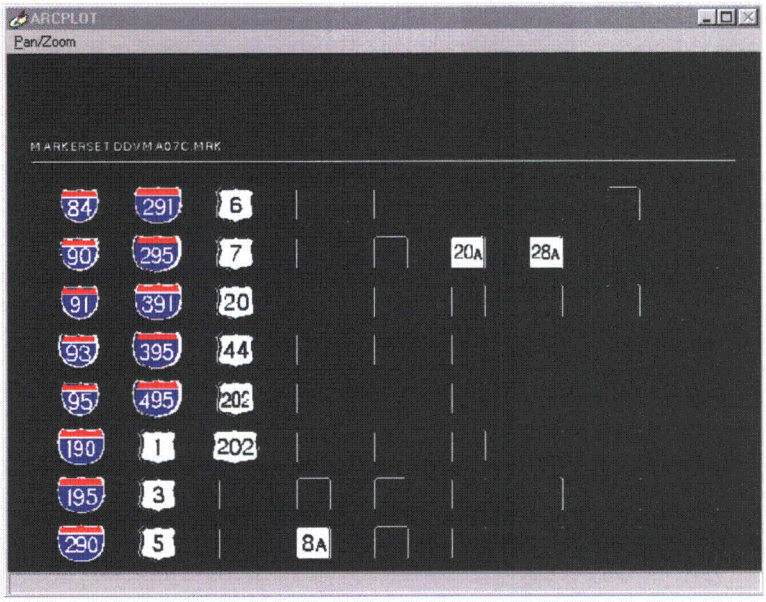
The Magic Approach: Some time ago ESRI technical support indicated that some people were supposedly able to cure the problem by opening file manager or explorer and dragging the fonts to another directory and then immediately dragging them back again. (It's likely they were working with all fonts installed 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.

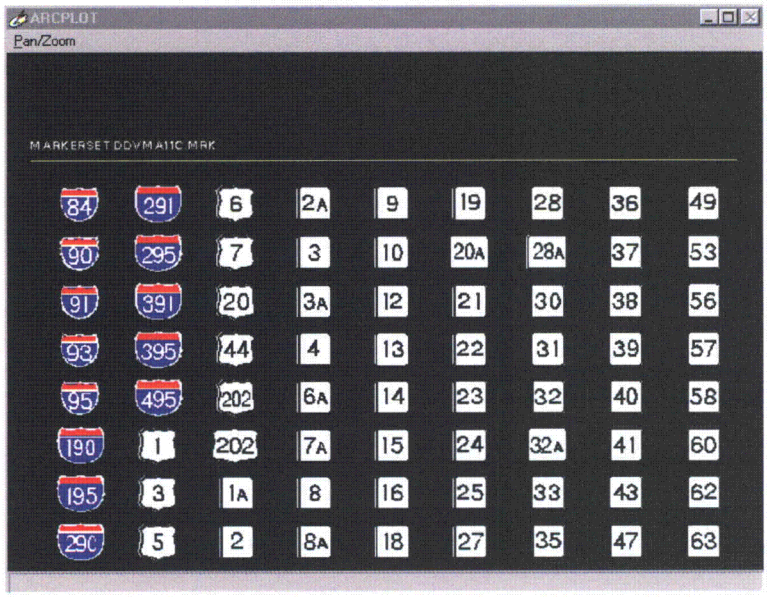
PROBLEM UPDATE: Since the problem was first included in this documentation, the print server suffered an unrecoverable hard disk crash for the "C" drive. After the disk was replaced and the operating system and updated print drivers installed, print submission on the client workstation was noted to take 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 ESPECIALLLY 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 8th Street
Cody, WY 82414

E-Mail: 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)

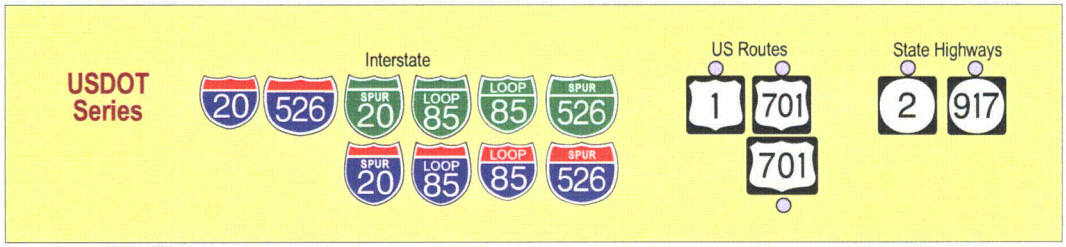
○ = Changeable Background Color (shown in white)

==========

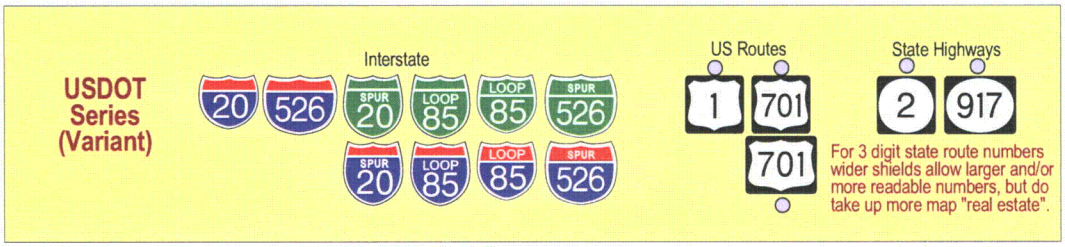
SPECIAL NOTE: BLUE ITEMS below are planned, but may not become available (check in ArcScripts).

==========

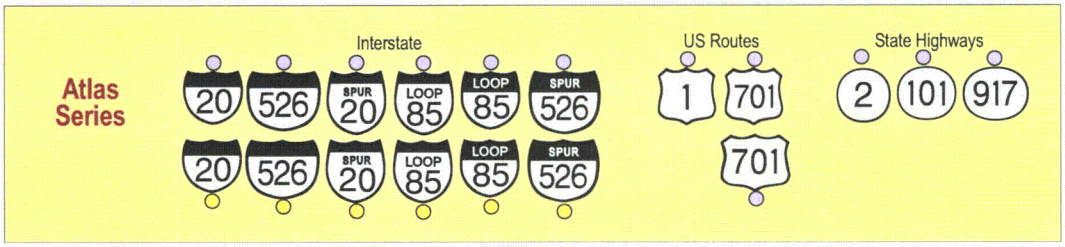
It is only necessary to install the specific series that you will be using. The following descriptions indicate which fonts and which markersets, palettes and/or styles must be installed for each series.



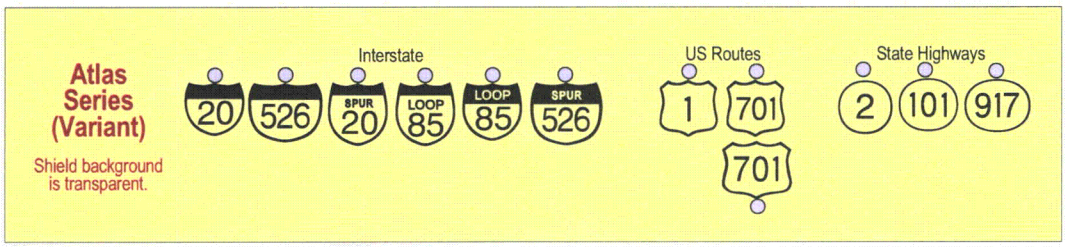
FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVSC01B.TTF	74001	DDVSC01B	DDVSC01B.MRK	DDVSC01B.AVP	DDVSC01B.Style
DDVSC02B.TTF	74002	DDVSC02B			
DDVSC03B.TTF	74003	DDVSC03B			



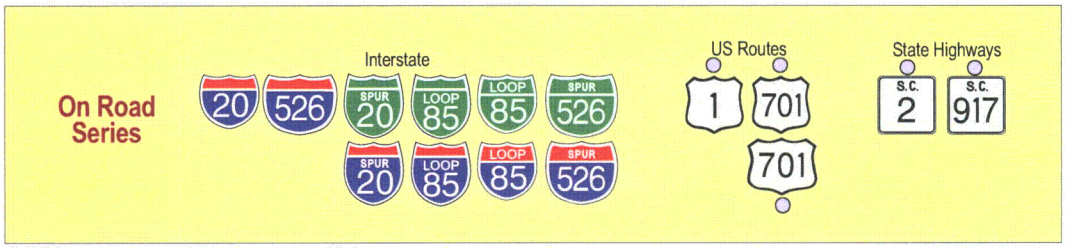
FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVSC04B.TTF	74004	DDVSC04B	DDVSC04B.MRK	DDVSC04B.AVP	DDVSC04B.Style
DDVSC05B.TTF	74005	DDVSC05B			
DDVSC06B.TTF	74006	DDVSC06B			



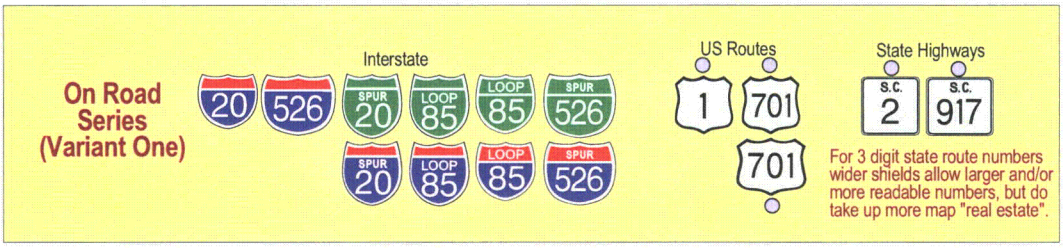
FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVSC07B.TTF	74007	DDVSC07B	DDVSC07B.MRK	DDVSC07B.AVP	DDVSC07B.Style
DDVSC08B.TTF	74008	DDVSC08B			
DDVSC09B.TTF	74009	DDVSC09B			



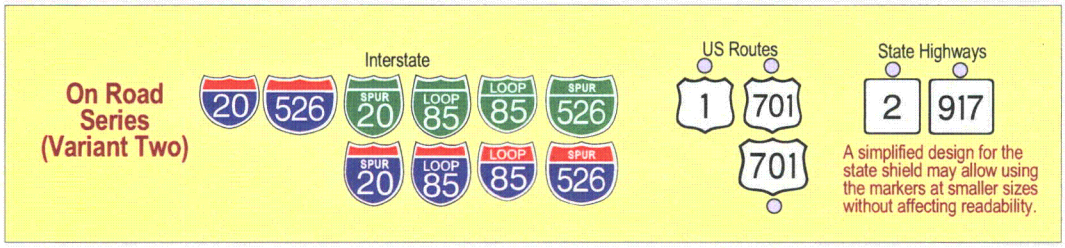
FONTS	FONT# (ArcInfo)	FONTNAME (ArcInfo)	MARKERSET (ArcInfo)	PALETTE (ArcView)	STYLE (ArcGIS 8)
DDVSC07B.TTF	74007	DDVSC07B	DDVSC08B.MRK	DDVSC08B.AVP	DDVSC08B.Style
DDVSC08B.TTF	74008	DDVSC08B			
DDVSC09B.TTF	74009	DDVSC09B			



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			



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



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

==========

VERSION "B" PARTICULARS

==========

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

ARCVIEW PALETTES: DDVxxxxx.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 IIa 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: DDVxxxxx.TTF Marker sets will always have at least one font and may have thirty or more. (e.g.: DDVCA01D.TTF, DDVMAP1B.TTF).

ARCVIEW PALETTES: DDVxxxxx.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: DDVxxxxx.TTF	Marker sets will always have at least one font and may have thirty or more. (e.g.: DDVCA01D.TTF, DDVMAP1B.TTF).
STYLESETS: DDVxxxxx.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.

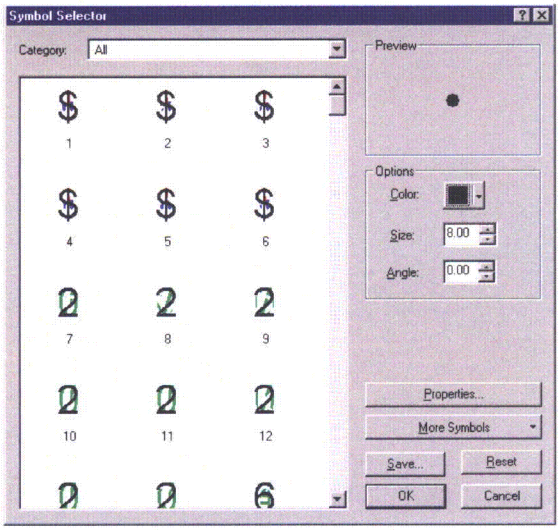
==========

Troubleshooting:

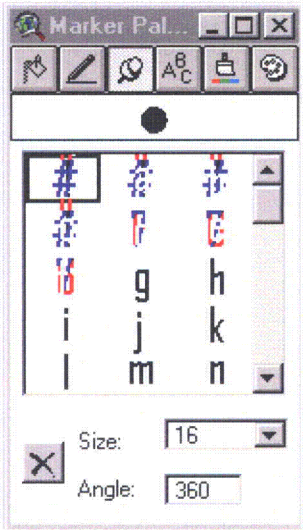
==========

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.

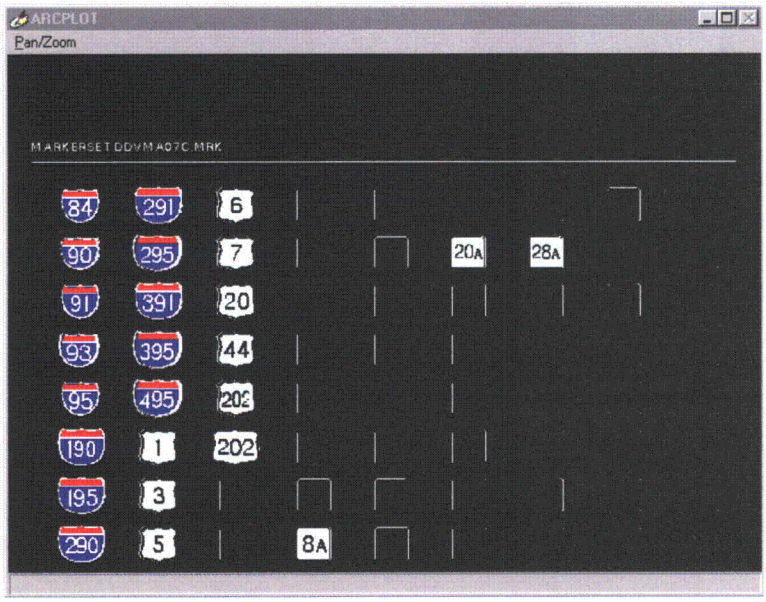
The Magic Approach: Some time ago ESRI technical support indicated that some people were supposedly able to cure the problem by opening file manager or explorer and dragging the fonts to another directory and then immediately dragging them back again. (It's likely they were working with all fonts installed 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.

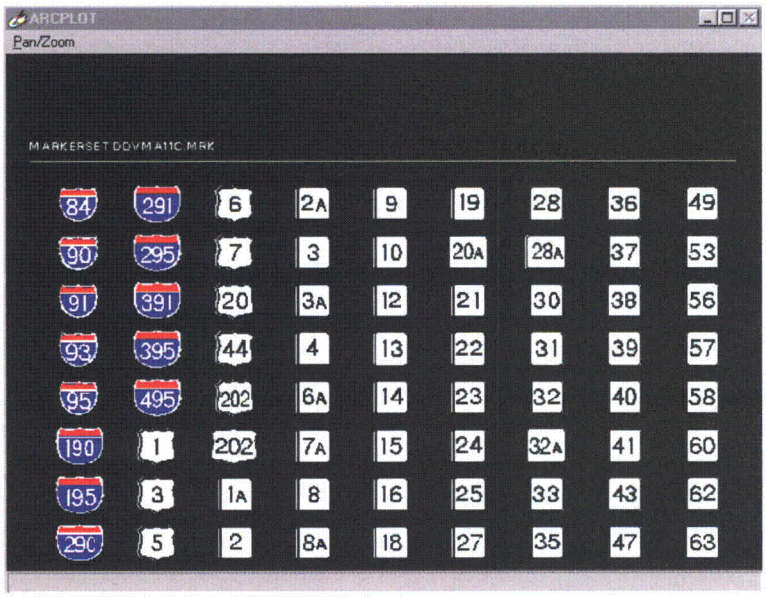
PROBLEM UPDATE: Since the problem was first included in this documentation, the print server suffered an unrecoverable hard disk crash for the "C" drive. After the disk was replaced and the operating system and updated print drivers installed, print submission on the client workstation was noted to take 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 ESPECIALLLY 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 8th Street
Cody, WY 82414

E-Mail: 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. MOSELY, ET AL
193-00-01-044 IRIS J. HOWELL
193-00-01-045 EDWARD EARL BOLIKNIGHT
193-00-01-049 JIMMIE 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
193-00-01-069 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. MOSELY
193-00-01-074 MAGGIE LOUISE BOYD
193-00-01-075 WALTER L. MARTIN
193-00-01-077 DORIS W. MUNCSH
193-00-01-079 MICKEY 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 PRAISE & DELIVERANCE TEMPLE
193-00-03-046 JENNIE V. HARPER & CURTIS L. MARTIN, TRUSTEES
193-00-03-083 TIMOTHY M. ROSEBOROUGH & MYRA N. ROSEBOROUGH
193-00-03-086 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 L. HARPER
207-00-01-012 JAMES E. PEARSON, JR.
207-00-01-013 BESSIE MARTIN
207-00-01-014 SCE&G
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 EZELL SUMMERS
207-00-01-024 JOHN E. WHITE & MARY M. WHITE
207-00-01-025 ROGER S. JENKINS, SR.
207-00-01-026 WALTER WORLEY
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 SADIE 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 STEVIE J. SANDERS & BRENDA SANDERS
207-00-01-040 SILAS CRUMPTON
207-00-01-041 DONALD G. MING & EDITH W. MING
207-00-01-042 RUDOLPH HARPER & LORETTA C.HARPER
207-00-01-043 RUFUS METZE & DOROTHY METZE
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 EARLINE 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 COVIN & 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
207-00-01-064 TERRY LEON THOMPSON
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 VERDELL 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 LOYVONNE P. GINYARD & EARLINE G. GINYARD
207-00-01-078 TWANDA L. FEASTER
207-00-01-079 RICHARD W. BIGGERSTAFF
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 LIZZIE 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 SCE&G
220-00-00-003 SCE&G
220-00-00-004 VERA LOUISE WOOD & JOEL O. WOOD
220-00-00-005 BETTY SCOTT BELL, ET AL
220-00-00-006 SCE&G
220-00-00-007 SCE&G
220-00-00-008 JERRY B RAWL & CALVIN C. CONNER, JR.
220-00-00-009 VERA LOUISE WOOD & JOEL O. WOOD
221-00-00-001 KEVIN CHAPMAN
221-00-00-002 ROBERT C. HARPER, ET AL
221-00-00-003 PAUL H. SHELTON & JUDYTH H. SHELTON
221-00-00-004 BOBBY D. STREET & DONNA W. STREET
221-00-00-008 TONY R. TAFTAR
221-00-00-011 BARBARA B. MANN
221-00-00-052 C. SCOTT BURRISS & ROBERT N. FULMER

NEWBERRY COUNTY

726-5 GERALD H. SMITH & JANE P. SMITH
726-6 HELEN M. SMITH
728-1 JOHNNY THERON RIDDLE
730-1 EVELYN STUCK NICHOLS
730-15 EDNA H. STUCK
730-20 STANLEY GRIFFIN
730-3 WILLIAM CHRISTOPHER JOHNSTON
730-4 WILLIE MAE S. EARGLE, ET AL
730-5 RONALD T. HOPE
730-6 RONALD T. HOPE
730-6-1 RONALD T. HOPE
730-7 RONALD T. HOPE
749-11 MARILYN L. MILLER
749-12 WILLIAM D. MILDROP, JR.
749-4 MARY REBECCA MILLER EST.

NOTE: PROPERTY LINES DEPICTED ON THIS EXHIBIT DERIVED FROM AVAILABLE COUNTY TAX MAPS. THIS EXHIBIT IS NOT A PROPERTY BOUNDARY SURVEY. ALL PROPERTY LINE LOCATIONS SUBJECT TO FULL BOUNDARY SURVEY OF THE DEPICTED PARCEL. NO FIELD SURVEYS WERE PERFORMED FOR THIS EXHIBIT.

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

0 1000' 2000' 3000' 4000' 5000' 6000'

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

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

9302-2

```
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
    Attribute:
      Attribute_Label: SHAPE
      Attribute_Definition: ArcView internal field
```

```
    Attribute_Definition_Source: Assigned
    Attribute_Domain_Values:
      Enumerated_Domain:
        Enumerated_Domain_Value: 12
        Enumerated_Domain_Value_Definition: character ID value
        Enumerated_Domain_Value_Definition_Source: Assigned
  Attribute:
    Attribute_Label: AREA
    Attribute_Definition: area of polygon
    Attribute_Definition_Source: calculated by ArcView
    Attribute_Domain_Values:
      Enumerated_Domain:
        Enumerated_Domain_Value:12
        Enumerated_Domain_Value_Definition: Floating value
        Enumerated_Domain_Value_Definition_Source: Assigned
  Attribute:
    Attribute_Label: PERIMETER
    Attribute_Definition: area of polygon
    Attribute_Definition_Source: calculated by ArcView
    Attribute_Domain_Values:
      Enumerated_Domain:
        Enumerated_Domain_Value:12
        Enumerated_Domain_Value_Definition: Floating value
        Enumerated_Domain_Value_Definition_Source: Assigned

  Attribute:
    Attribute_Label: quadname_
    Attribute_Definition: ArcView internal field
    Attribute_Definition_Source: Assigned
    Attribute_Domain_Values:
      Enumerated_Domain:
        Enumerated_Domain_Value: 10
        Enumerated_Domain_Value_Definition: character ID value
        Enumerated_Domain_Value_Definition_Source: Assigned
  Attribute:
    Attribute_Label: quadname_ID
    Attribute_Definition: ArcView internal field
    Attribute_Definition_Source: Assigned
    Attribute_Domain_Values:
      Enumerated_Domain:
        Enumerated_Domain_Value: 10
        Enumerated_Domain_Value_Definition: character ID value
        Enumerated_Domain_Value_Definition_Source:  Assigned
  Attribute:
    Attribute_Label: LUCODE
    Attribute_Definition: Anderson land use classification code number
    Attribute_Definition_Source: GIRAS
    Attribute_Domain_Values:
      Codeset_Domain:
        Codeset_Name: Anderson landuse classification codes
        Codeset_Source: see Publication_Information U.S.G.S. paper 964
  Attribute:
    Attribute_Label: LEVEL2
    Attribute_Definition: Anderson land use classification name
    Attribute_Definition_Source: GIRAS
    Attribute_Domain_Values:
      Codeset_Domain:
        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:
    Although these data have been processed successfully on a computer
    system at Tetra Tech, Inc., no warranty expressed or implied is
    made regarding the accuracy or utility of the data on any other
    system or for general or scientific purposes, nor shall the act of
    distribution constitute any such warranty. This disclaimer applies
    both to individual use of the data and aggregate use with other
    data. It is also strongly recommended that careful attention be
    paid to the contents of the metadata file associated with these
    data.  The U.S. Environmental Protection Agency nor Tetra Tech,
    Inc. shall not be held liable for improper or incorrect use of the
    data described and/or contained herein.

  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
```

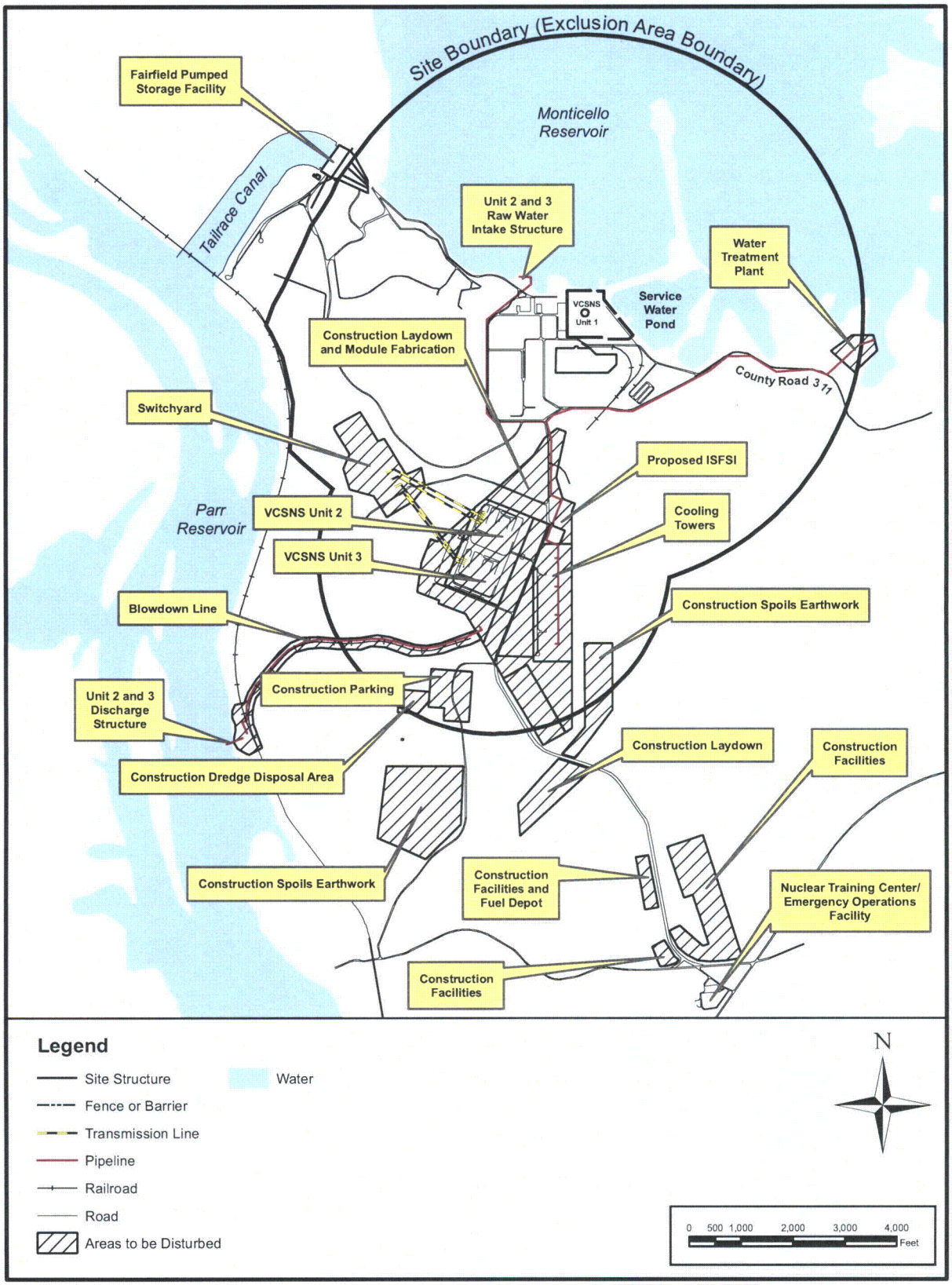


Figure 2.1-1 VCSNS Site and Proposed Plant Footprint

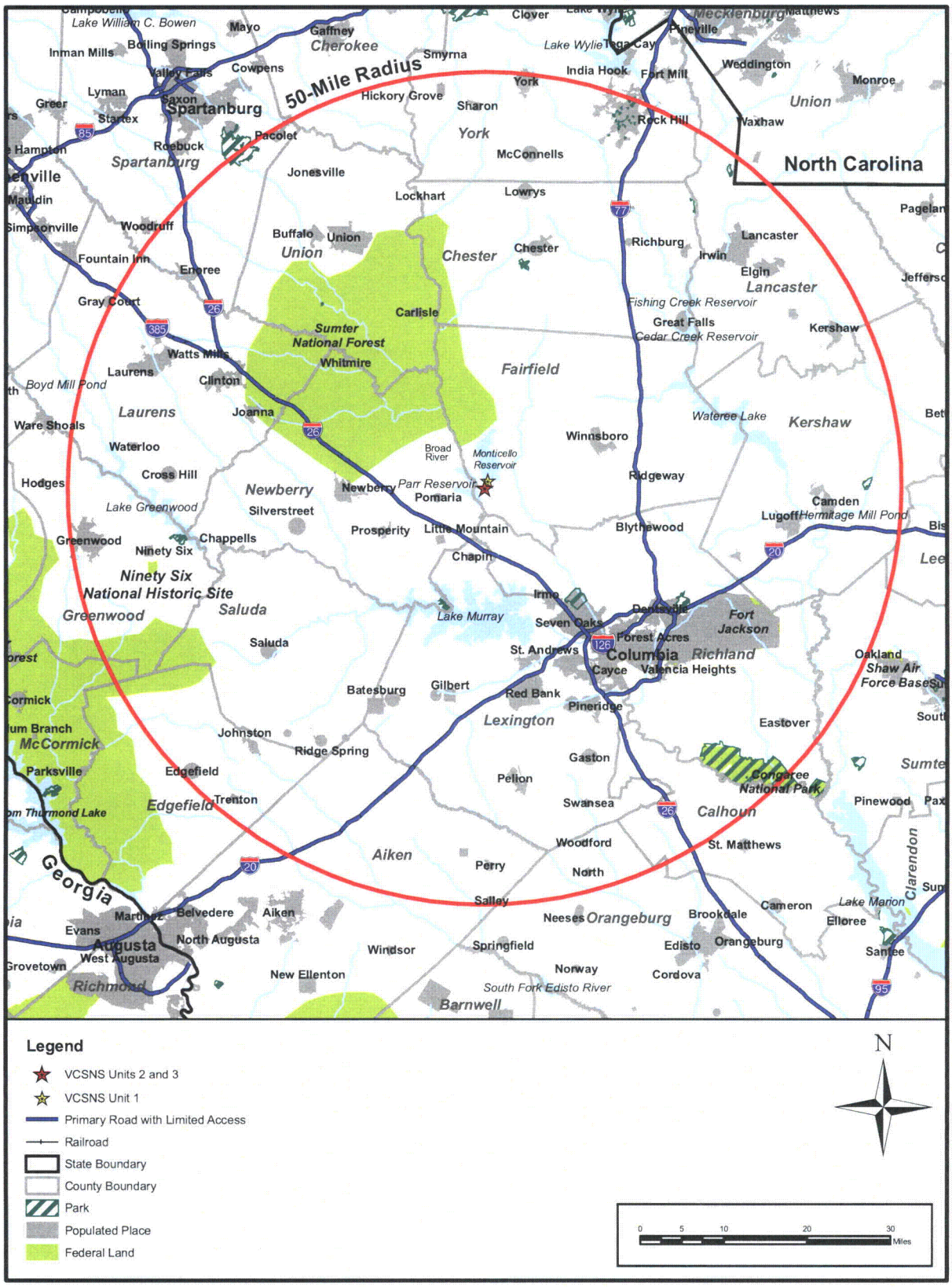


Figure 2.1-2 50-Mile Vicinity

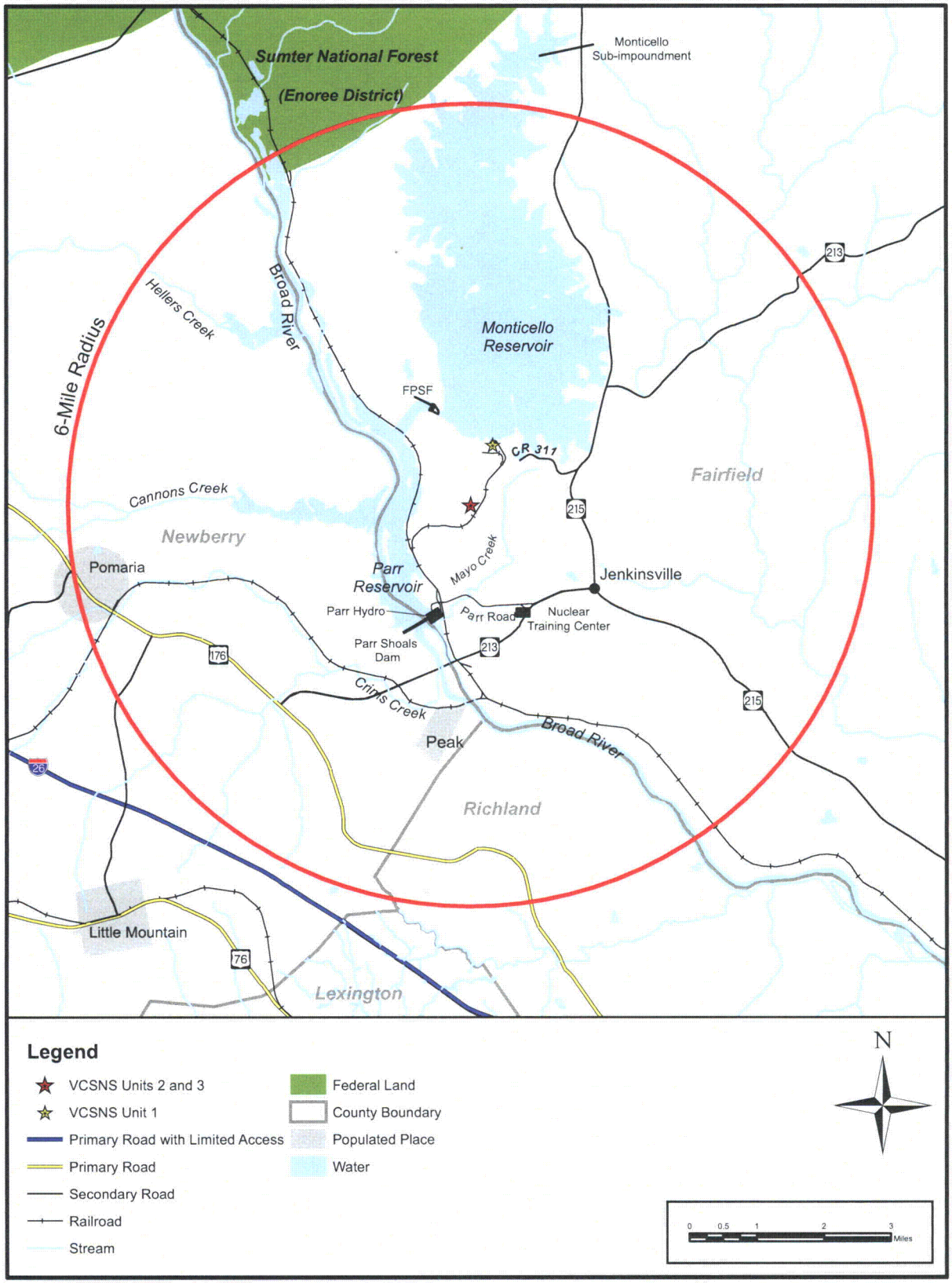


Figure 2.1-3 6-Mile Vicinity

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

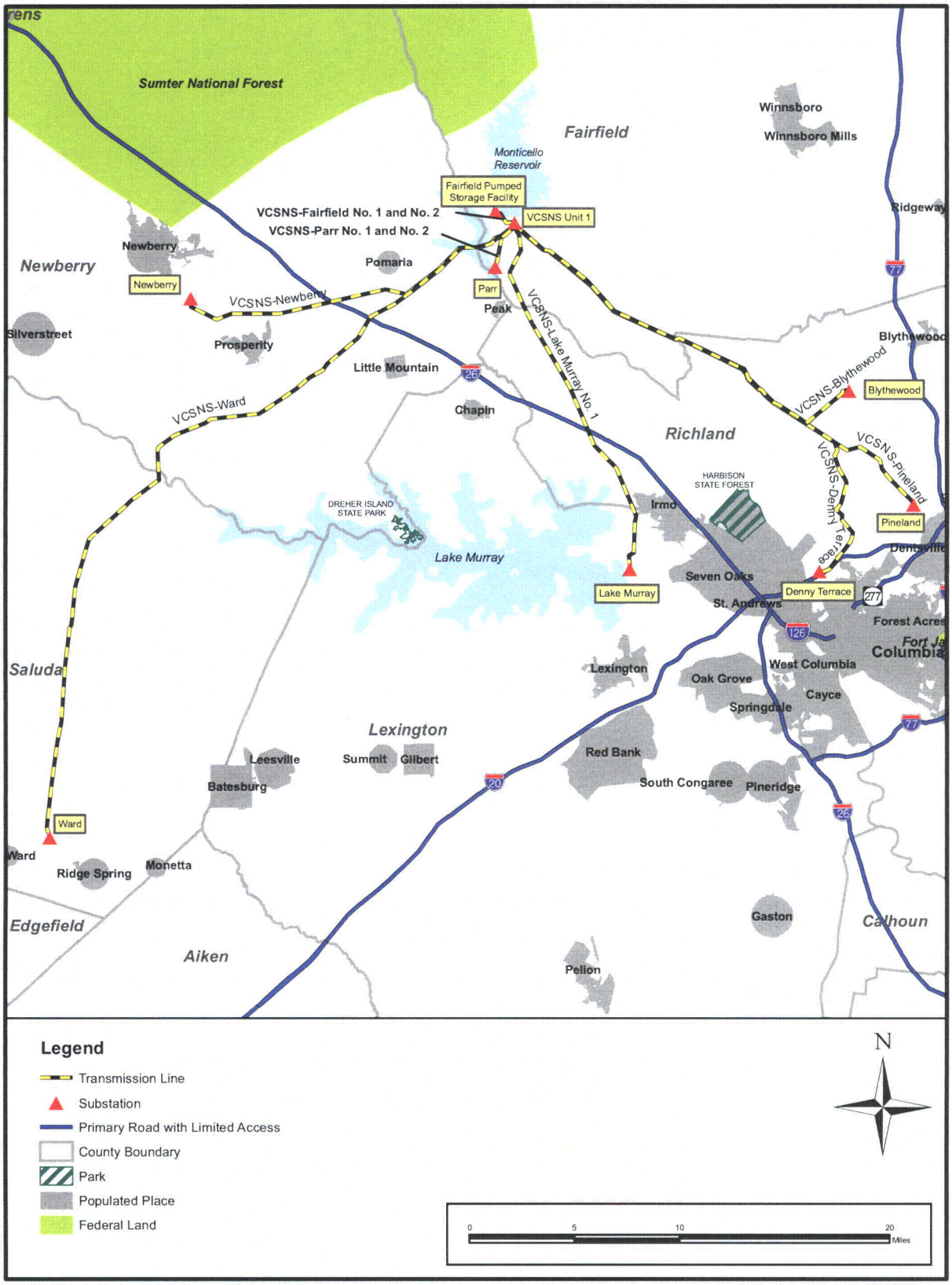


Figure 2.2-3 Existing Transmission System for VCSNS Unit 1

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

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

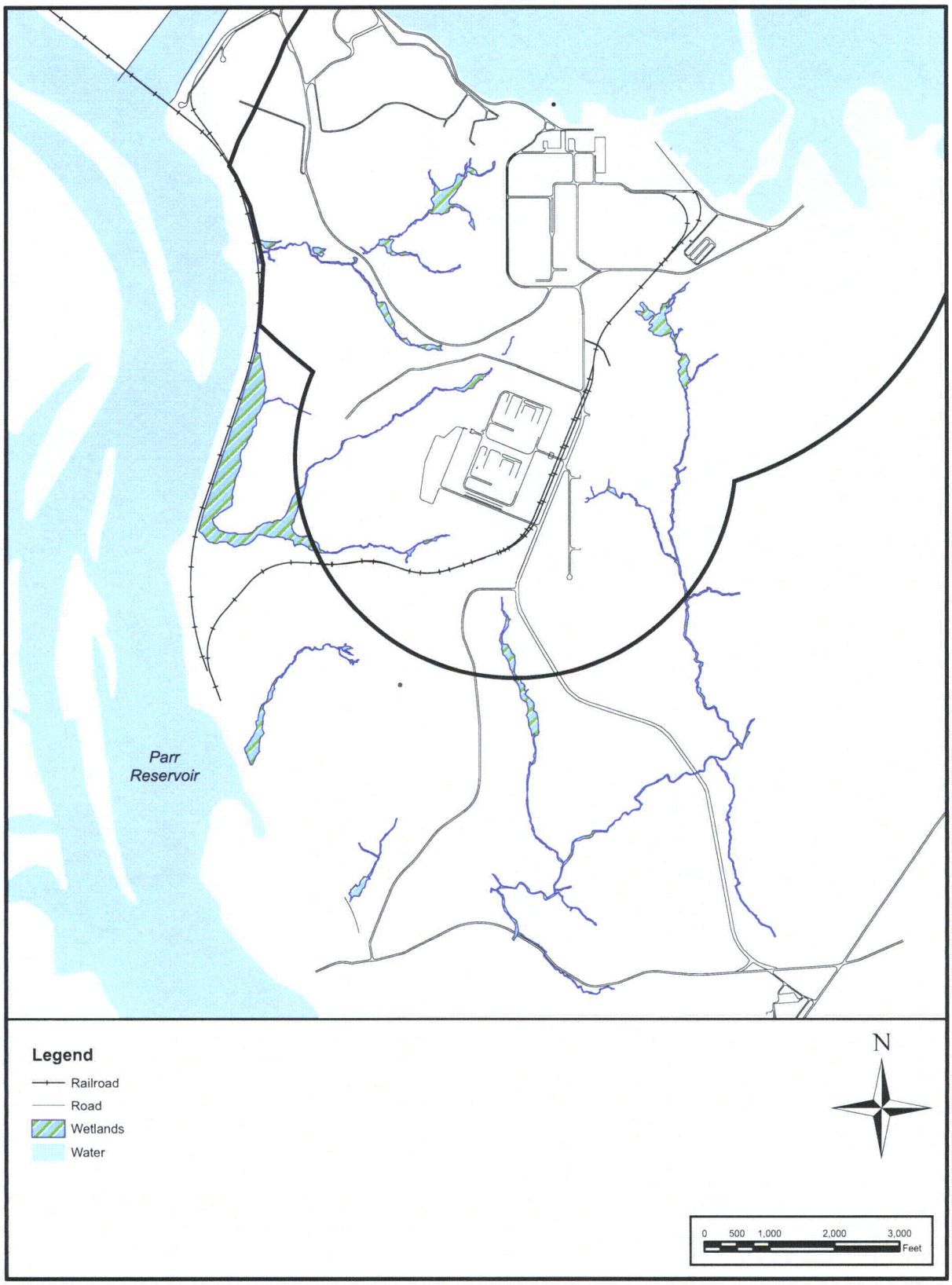


Figure 2.3-20 Mapped Wetlands

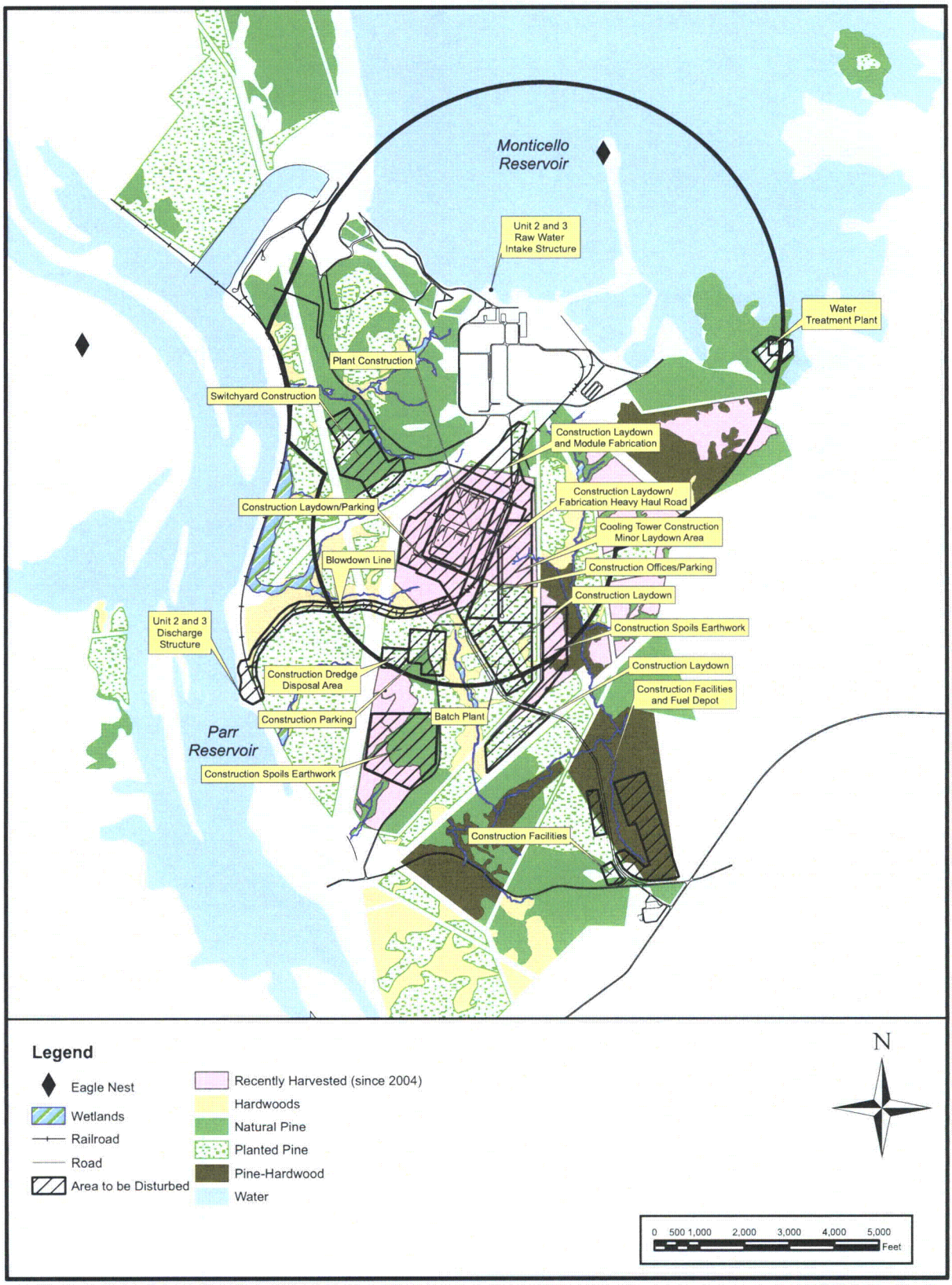


Figure 2.4-1 Habitats and Areas That Will Be Disturbed During Construction of VCSNS Units 2 and 3

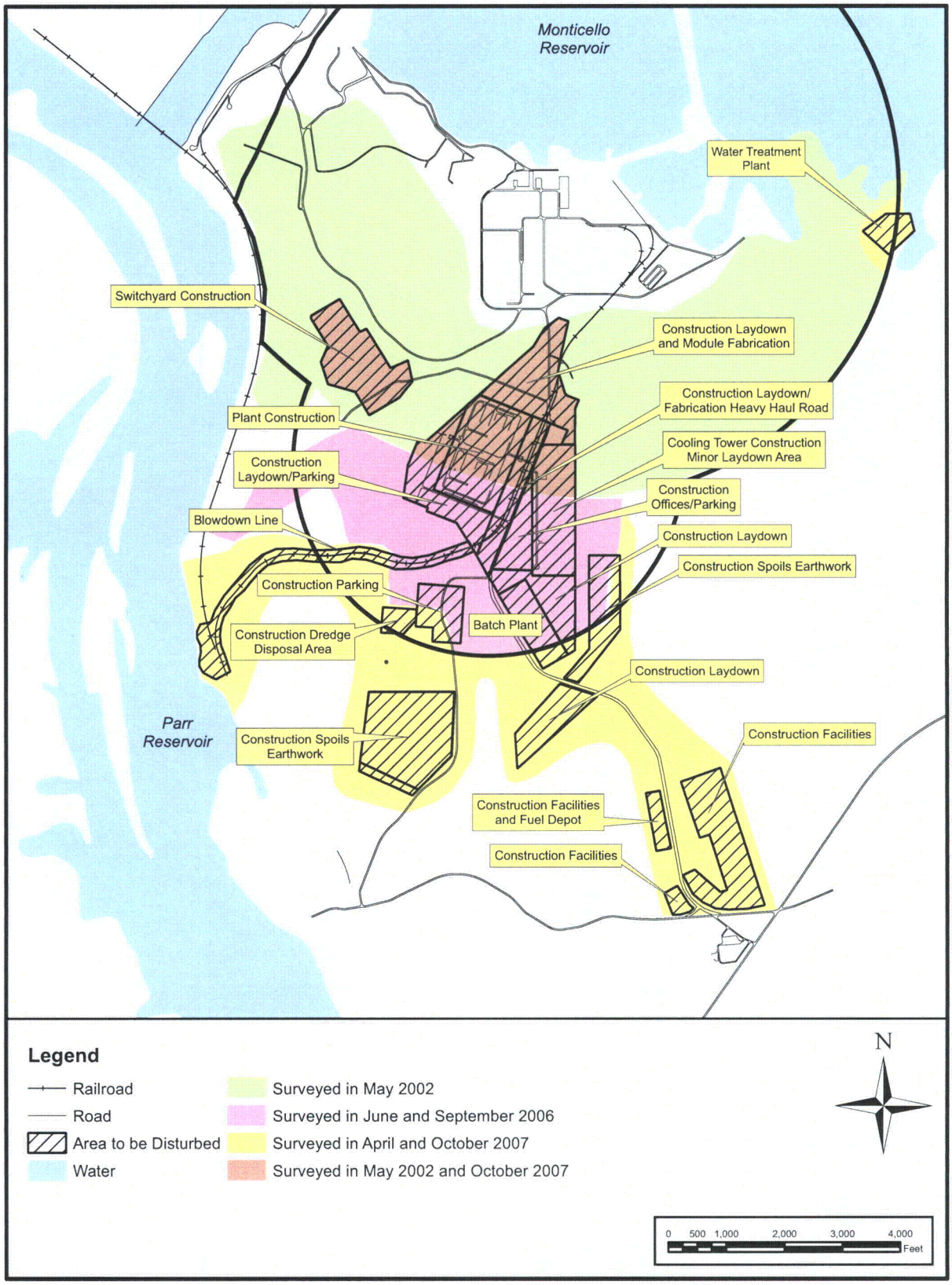


Figure 2.4-2 Areas Surveyed for Endangered and Threatened Species at VCSNS, 2002 - 2007

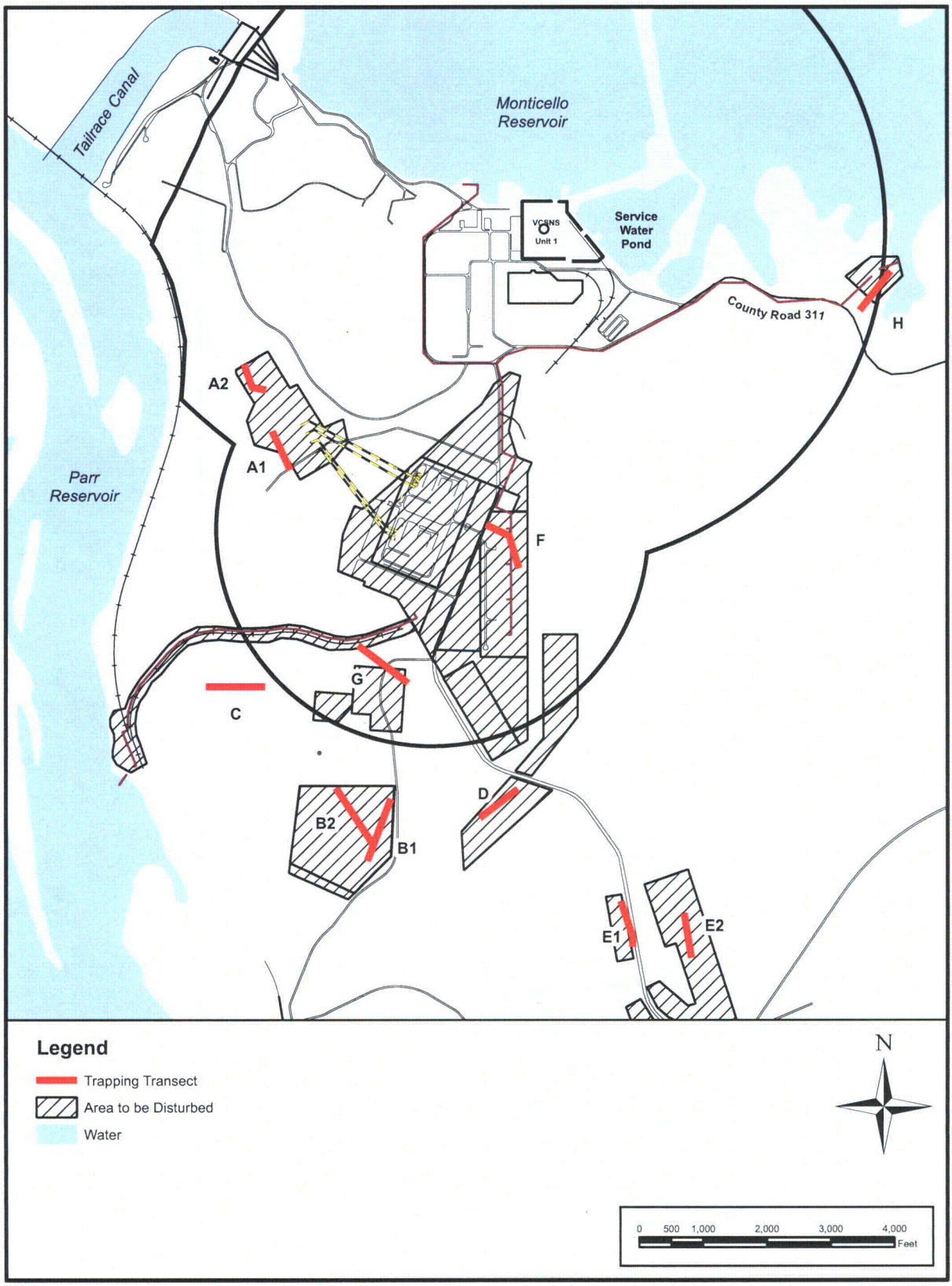


Figure 2.4-3. Small Mammal Trapping Transects on the VCSNS Site, October 2008.

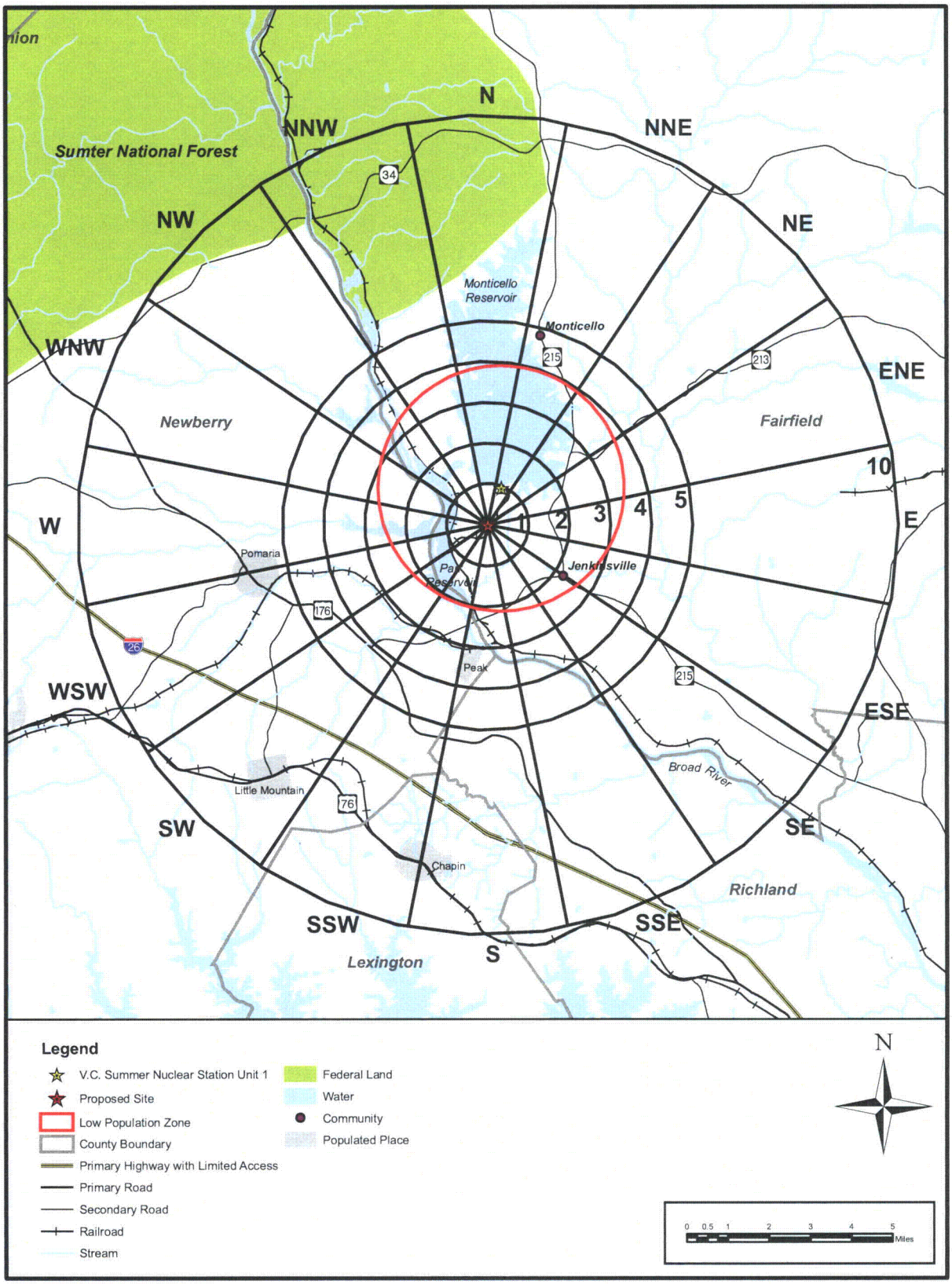


Figure 2.5-1 10-Mile Surrounding Area

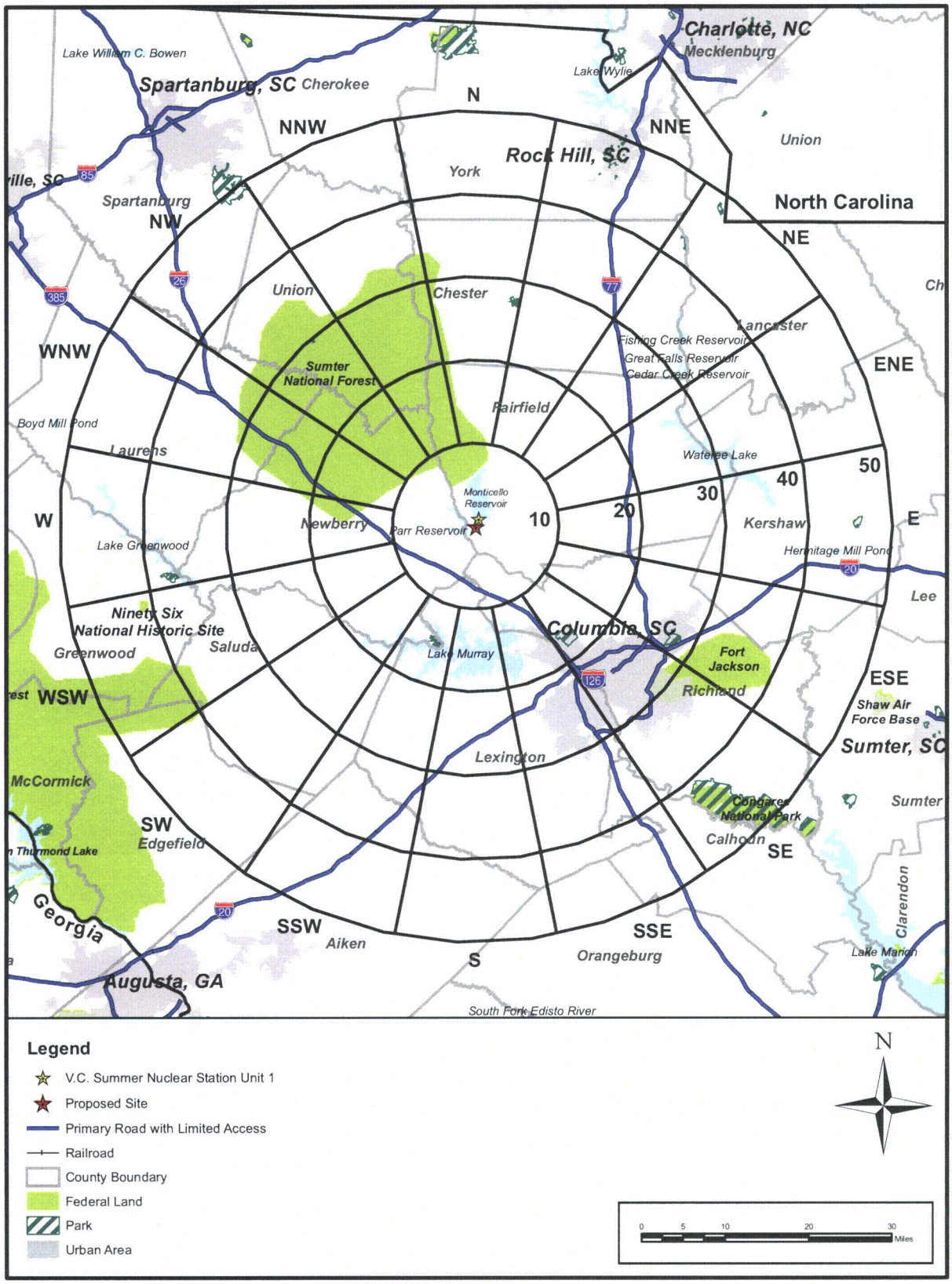


Figure 2.5-2 50-Mile Surrounding Area

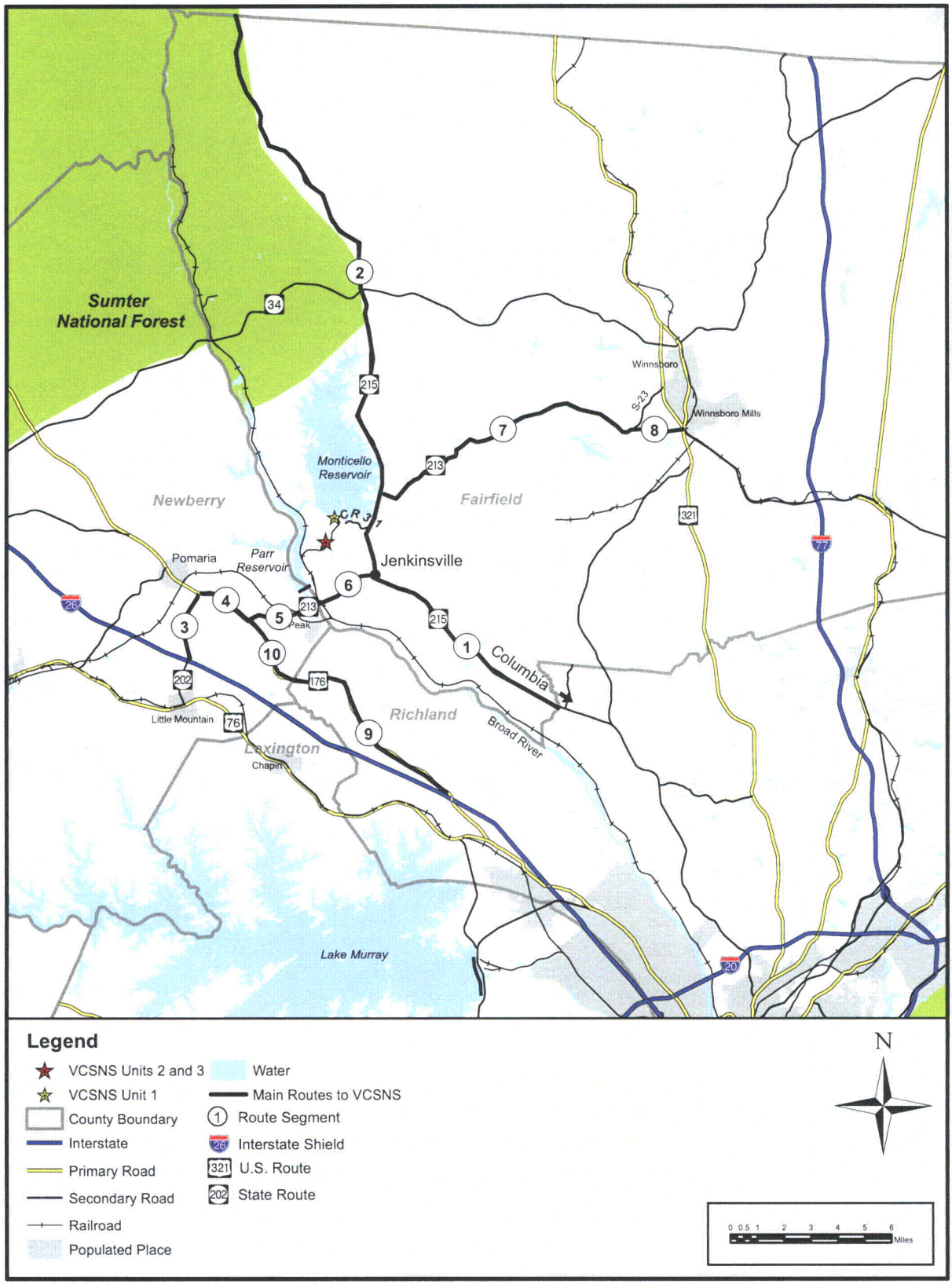


Figure 2.5-3 Road and Highway Transportation System

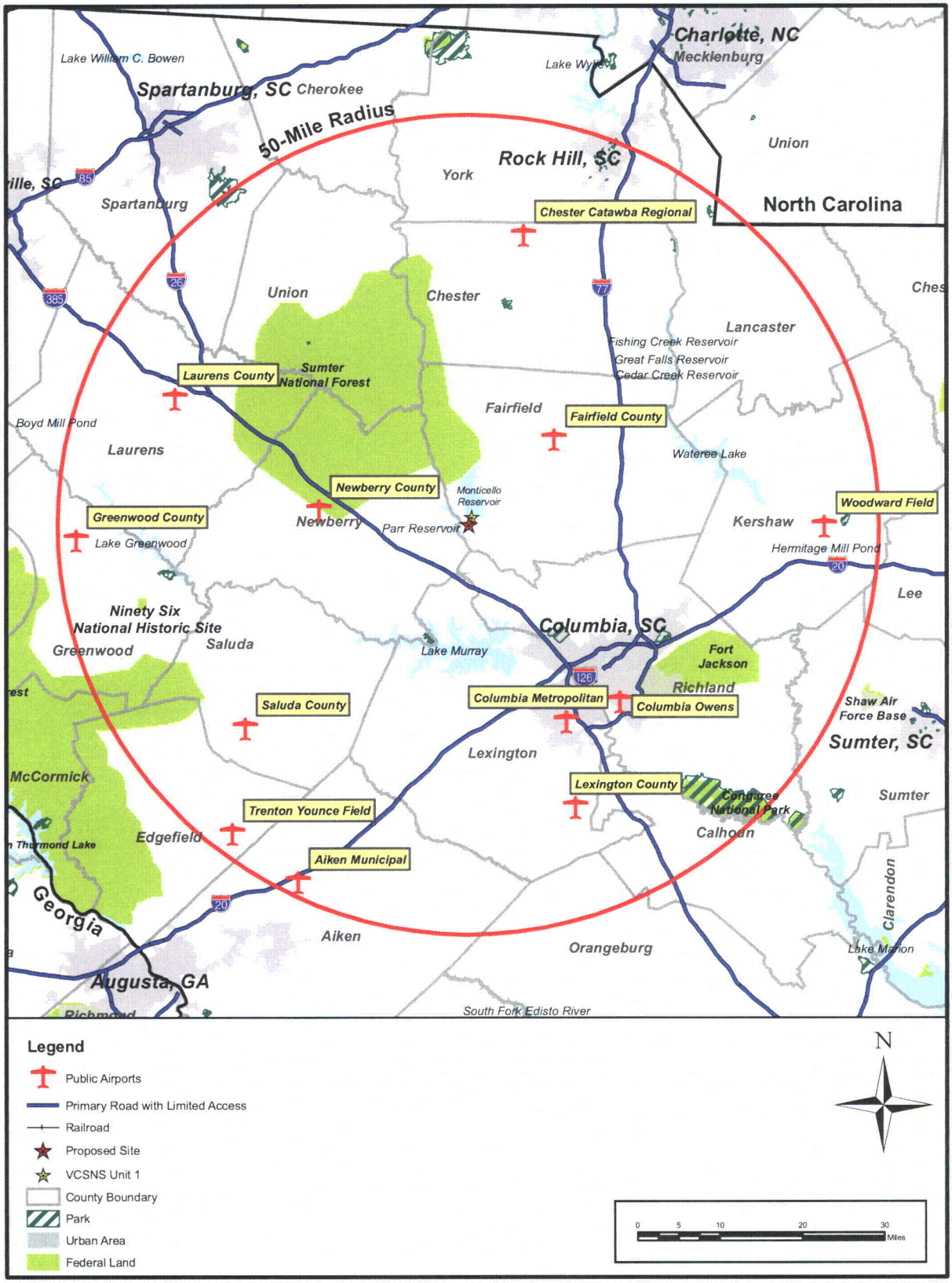


Figure 2.5-4 Public Airports and Rail System Within 50 Miles of the Proposed Site

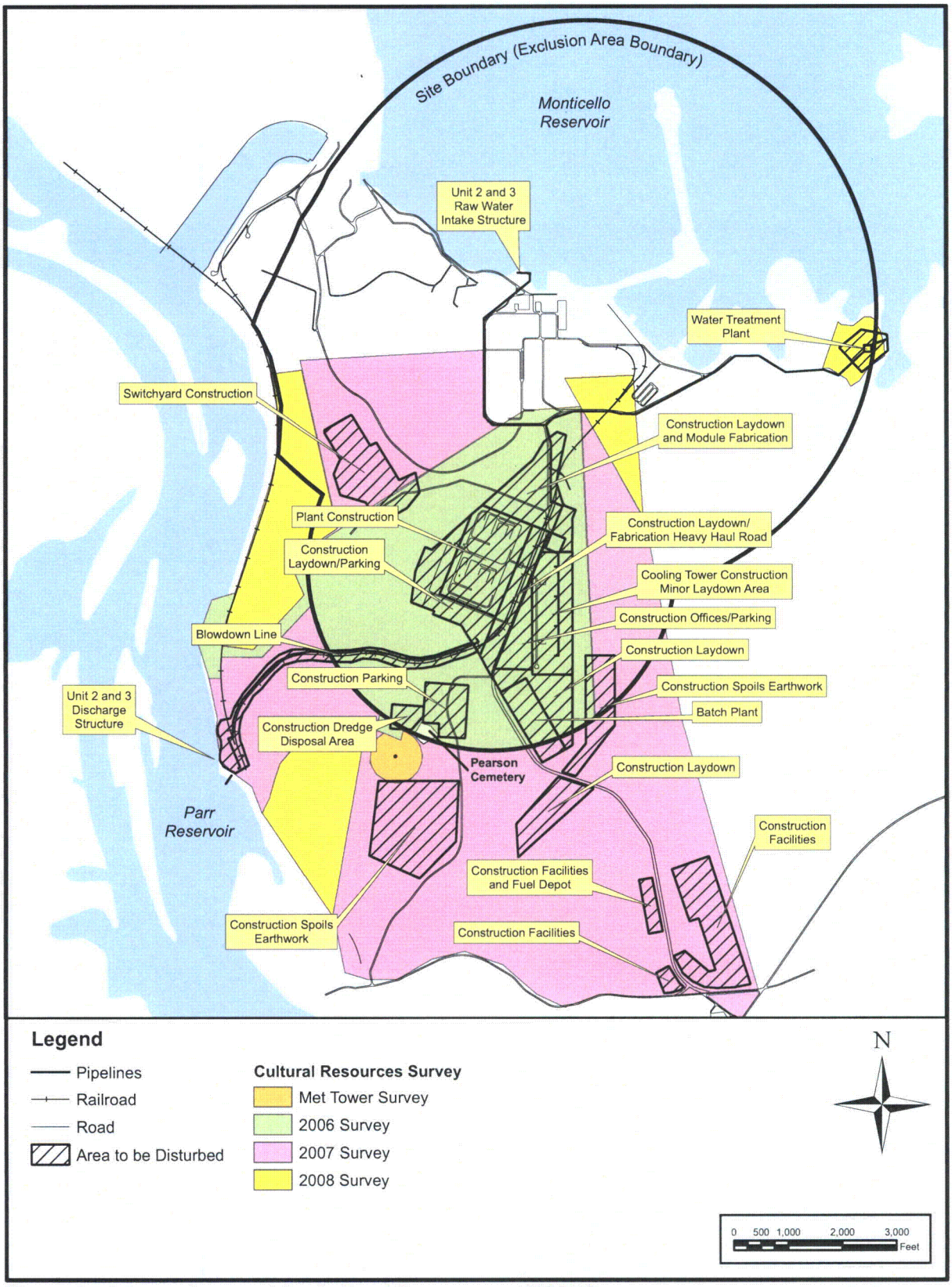


Figure 2.5-5 Areas Surveyed for Cultural Resources at VCSNS

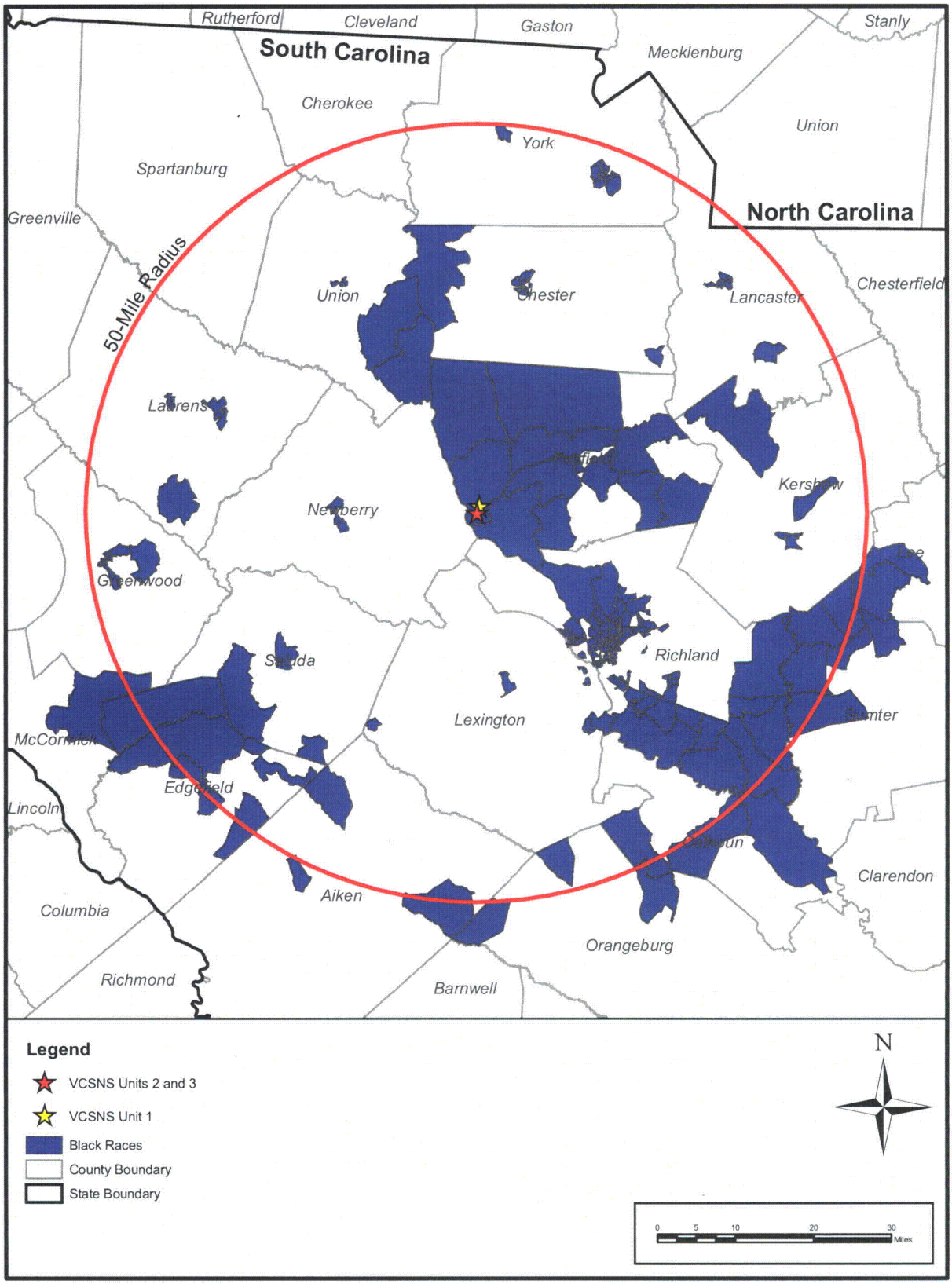


Figure 2.5-6 Black Races Block Groups

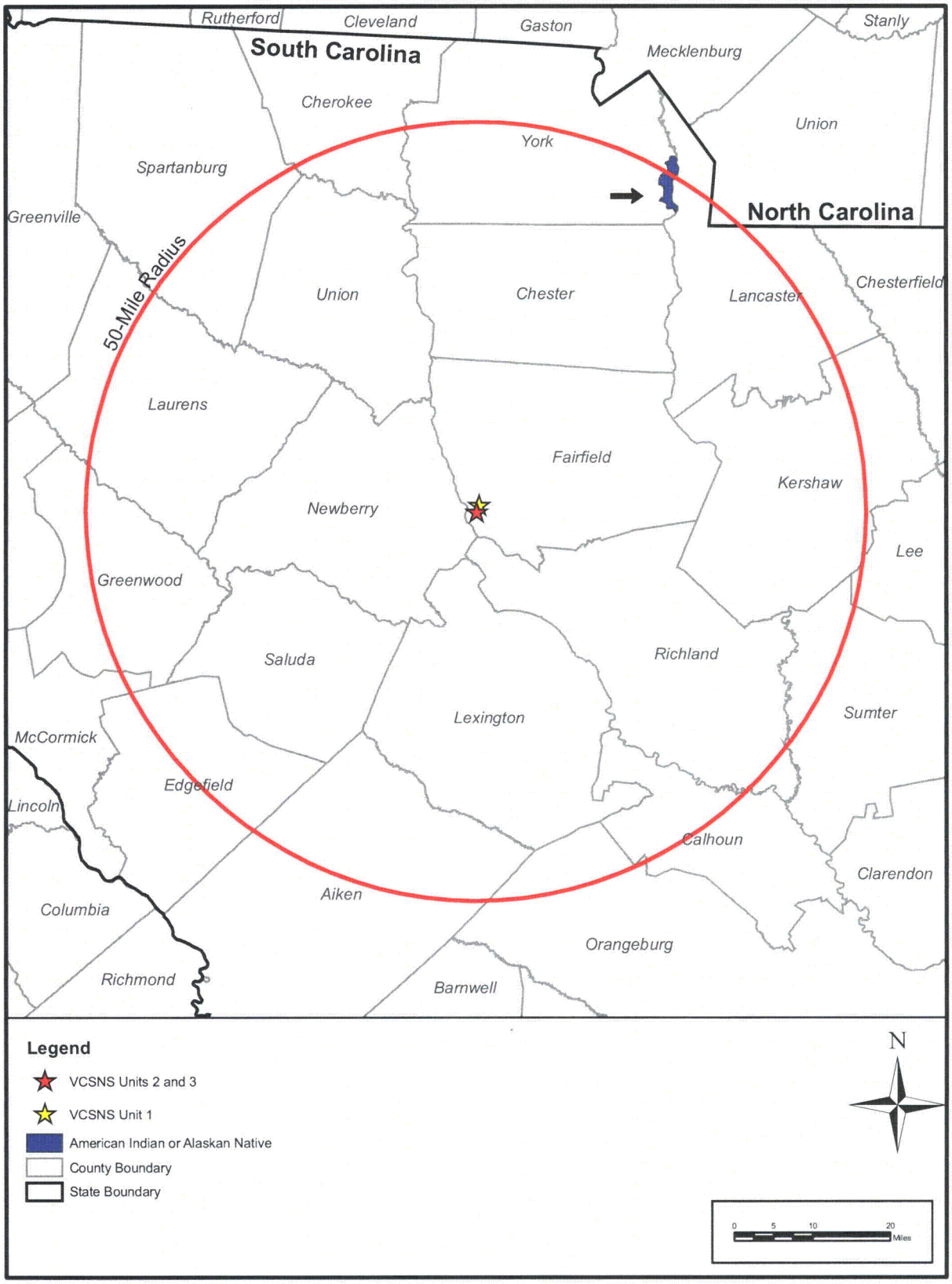


Figure 2.5-7 American Indian or Alaskan Native Block Groups

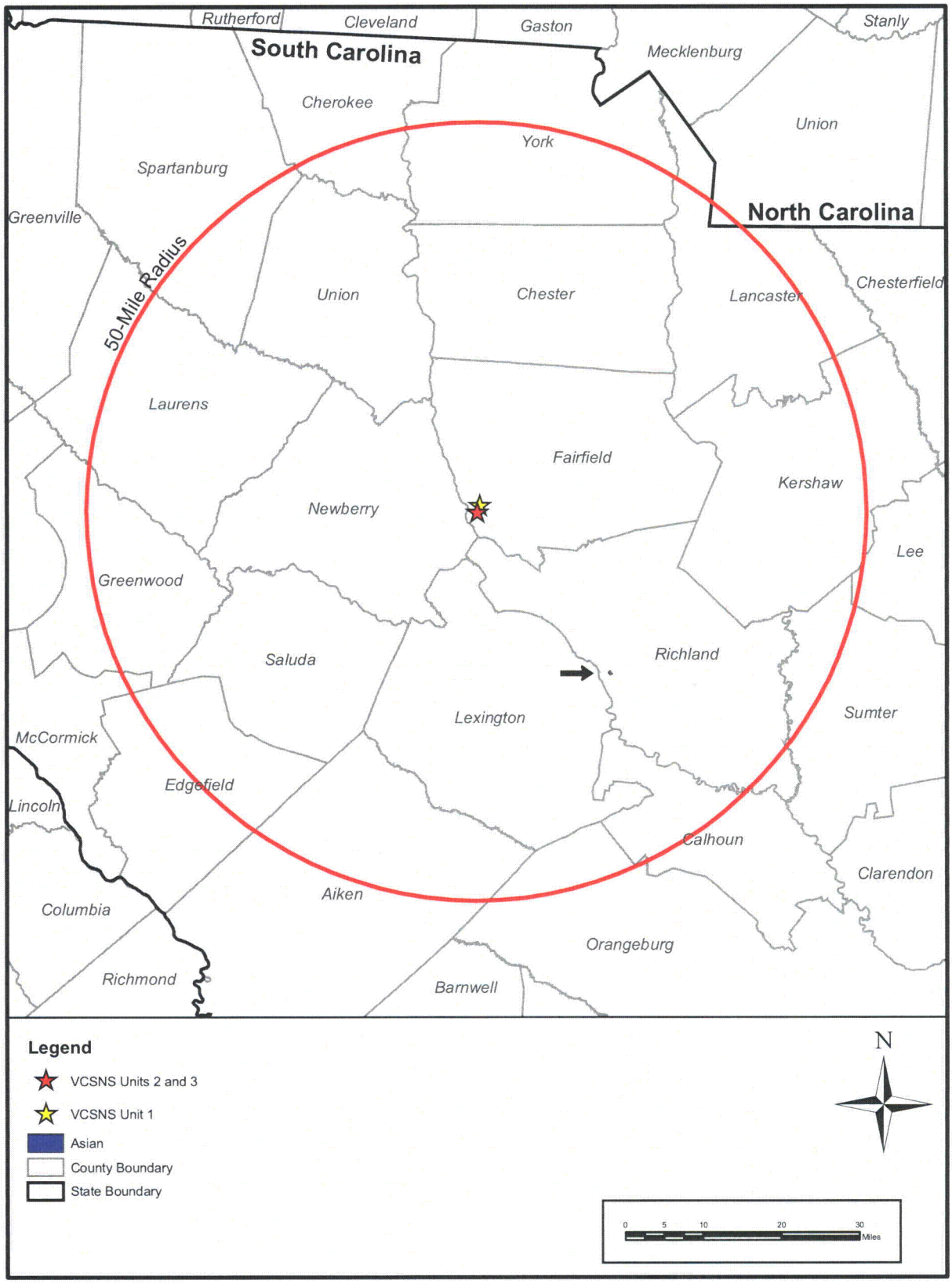


Figure 2.5-8 Asian Block Groups

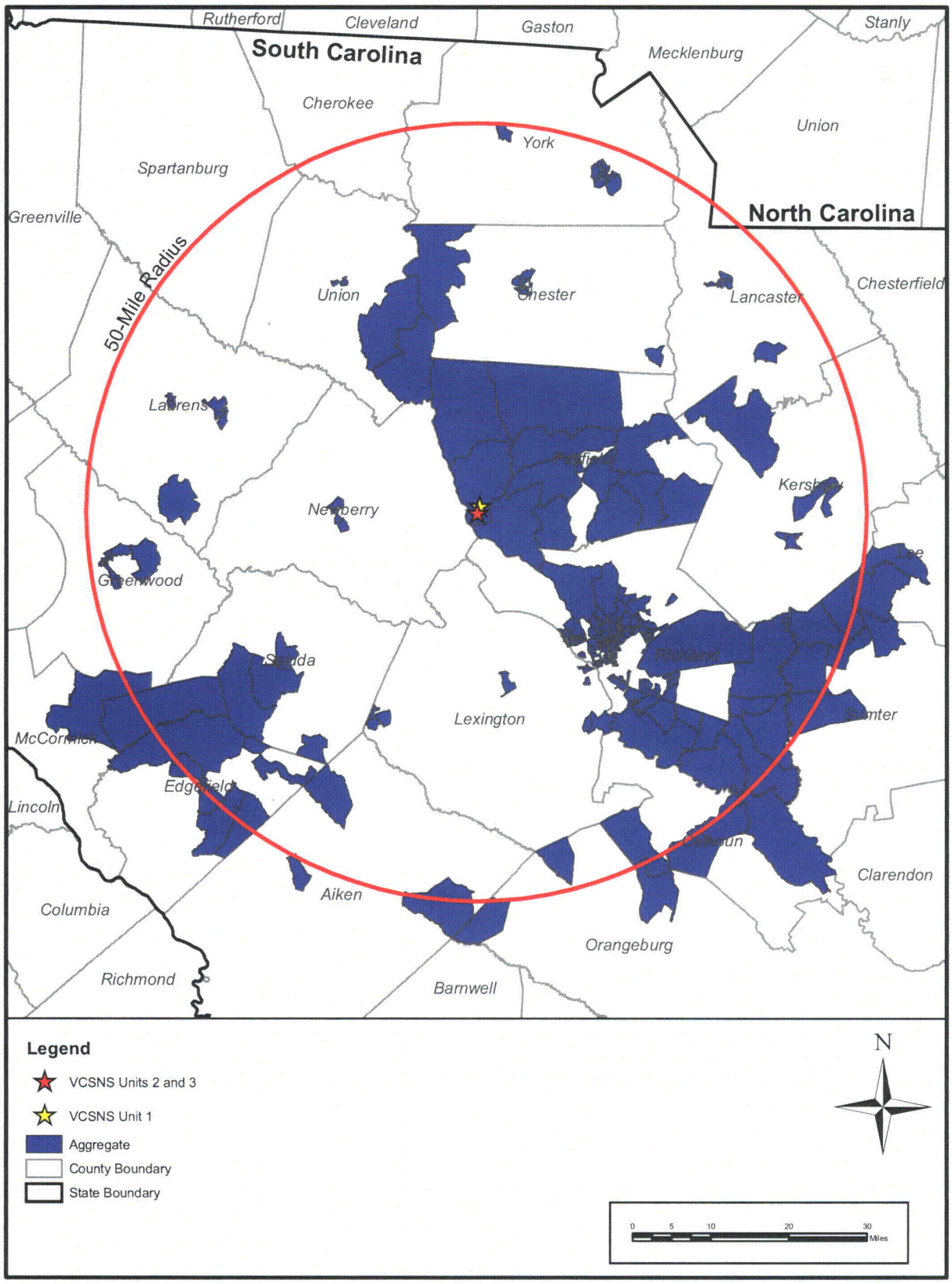


Figure 2.5-9 Aggregate Block Groups

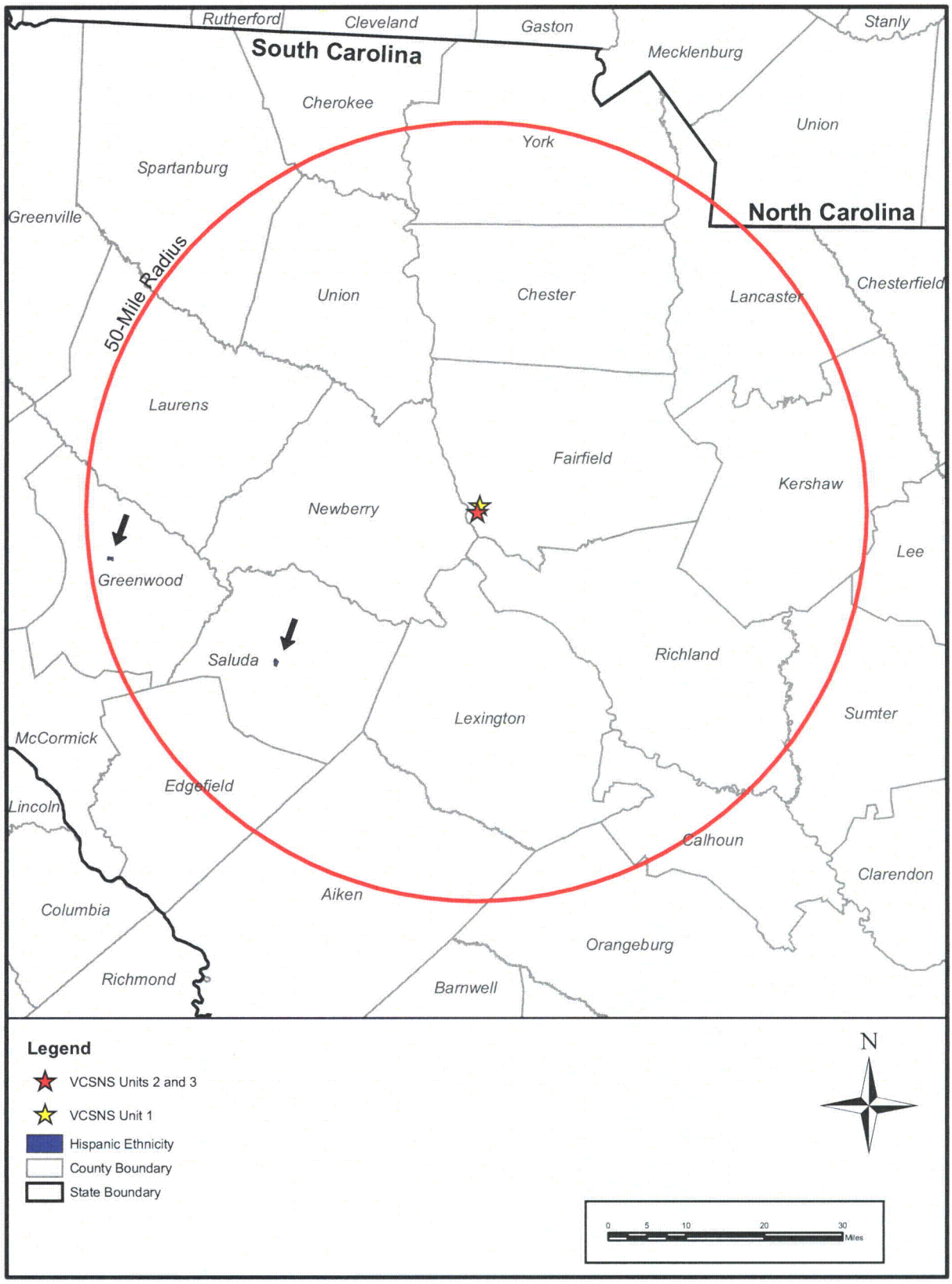


Figure 2.5-10 Hispanic Ethnicity Block Groups

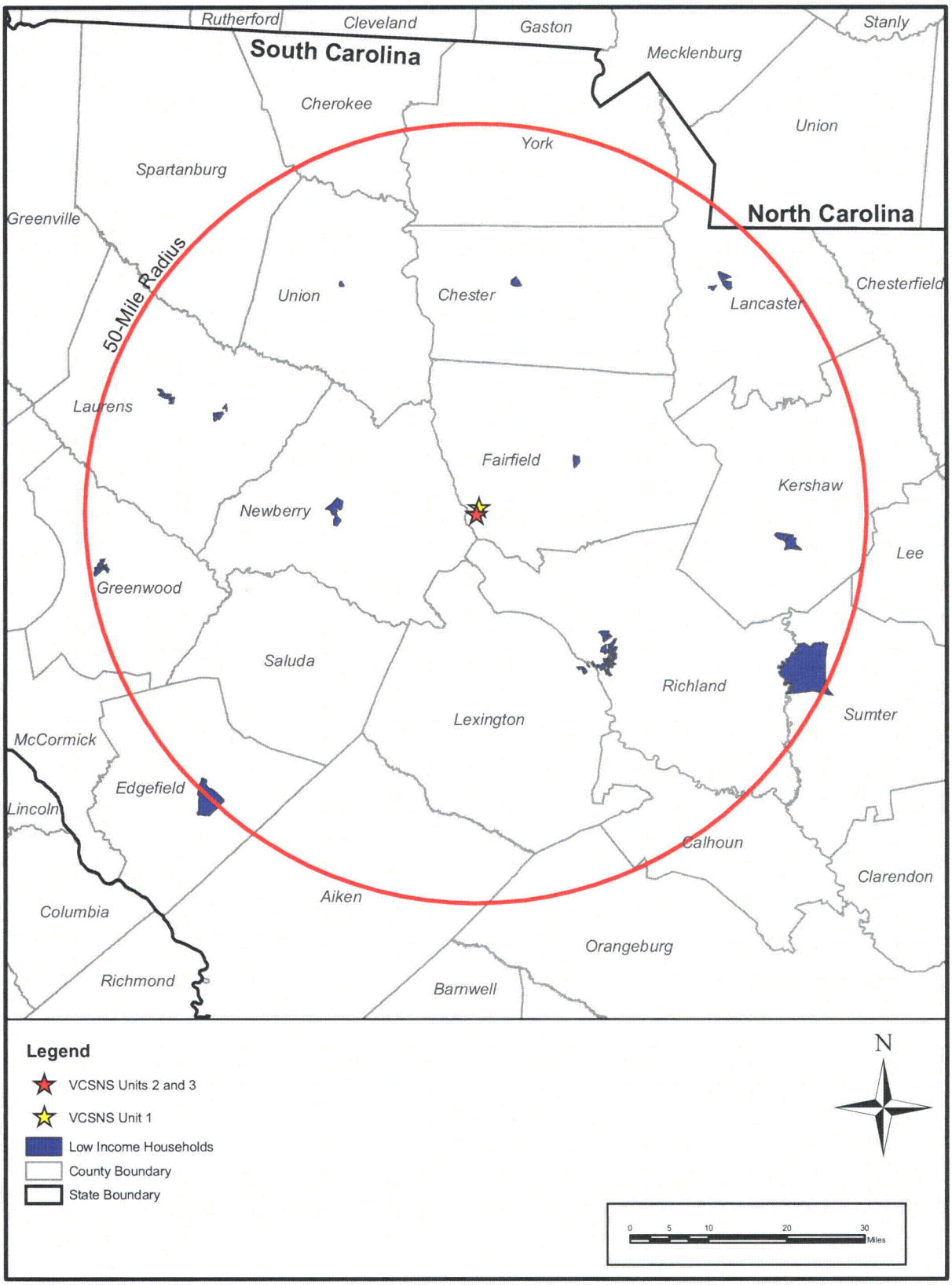


Figure 2.5-11 Low Income Block Groups

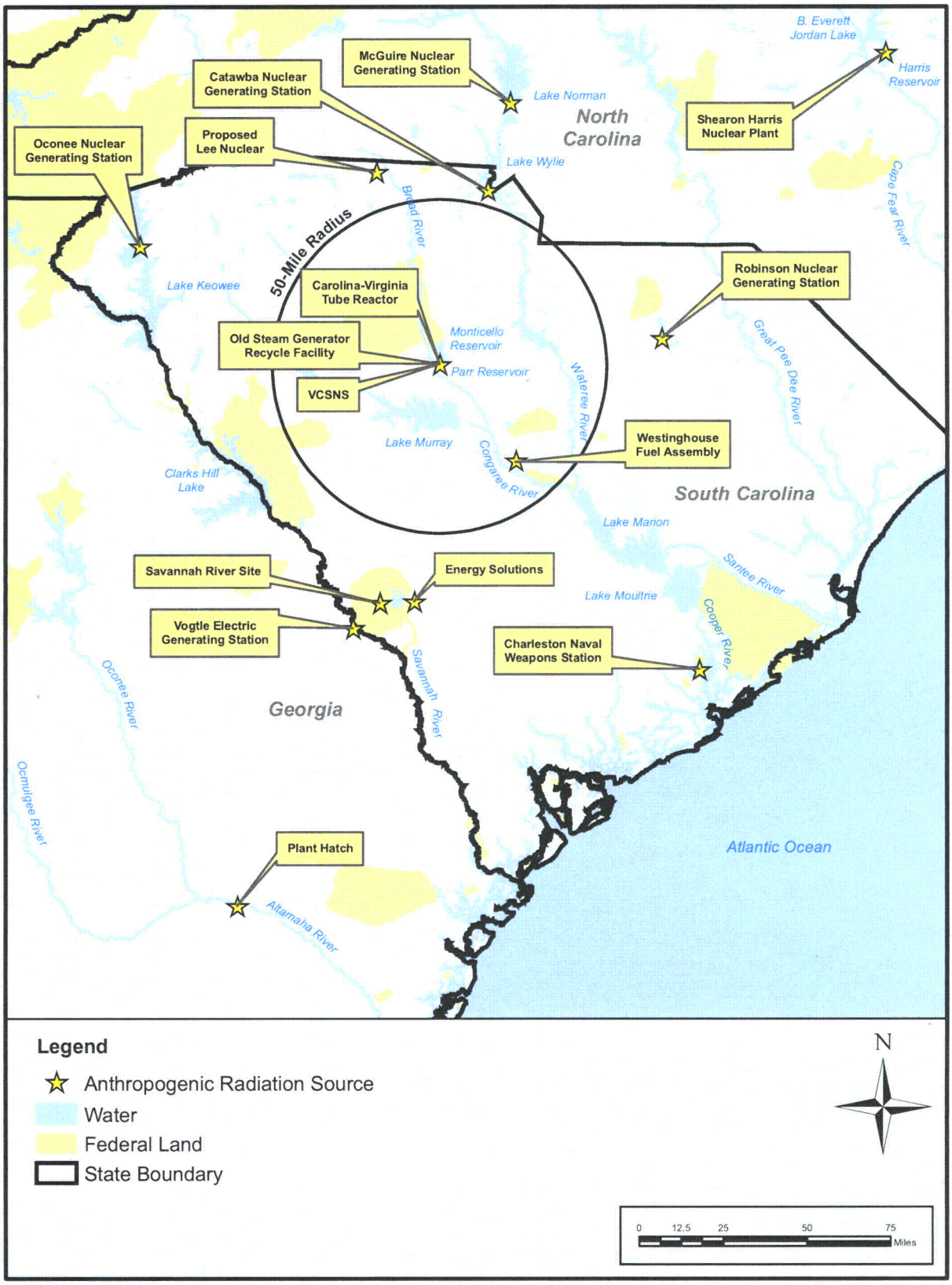


Figure 2.8-1 Anthropogenic Radiation Sources

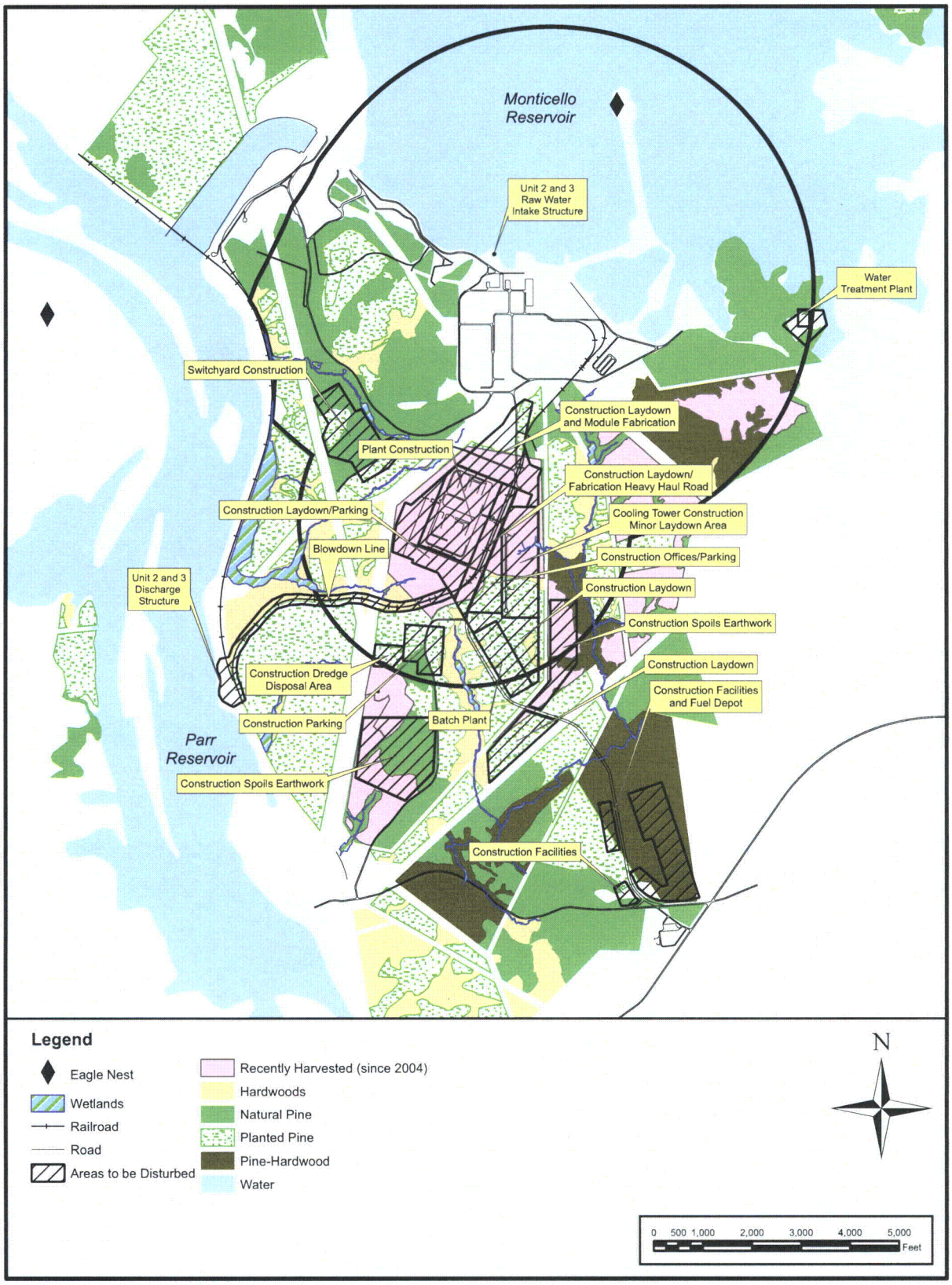


Figure 4.3-1 Habitats and Areas That Will Be Disturbed During Construction of VCSNS Units 2 and 3

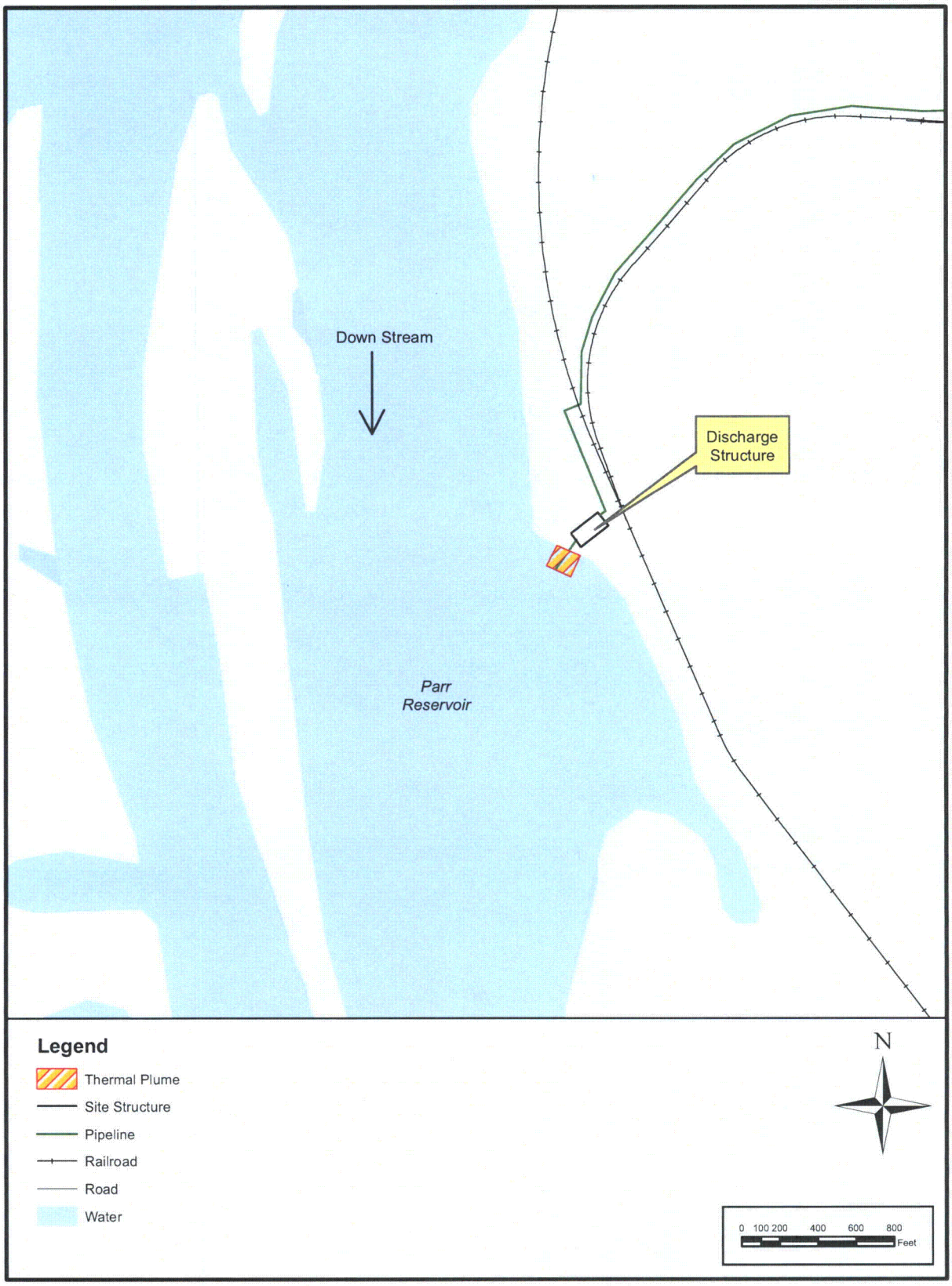


Figure 5.3-4 Modeled Areal Extent of Thermal Plume in Parr Reservoir

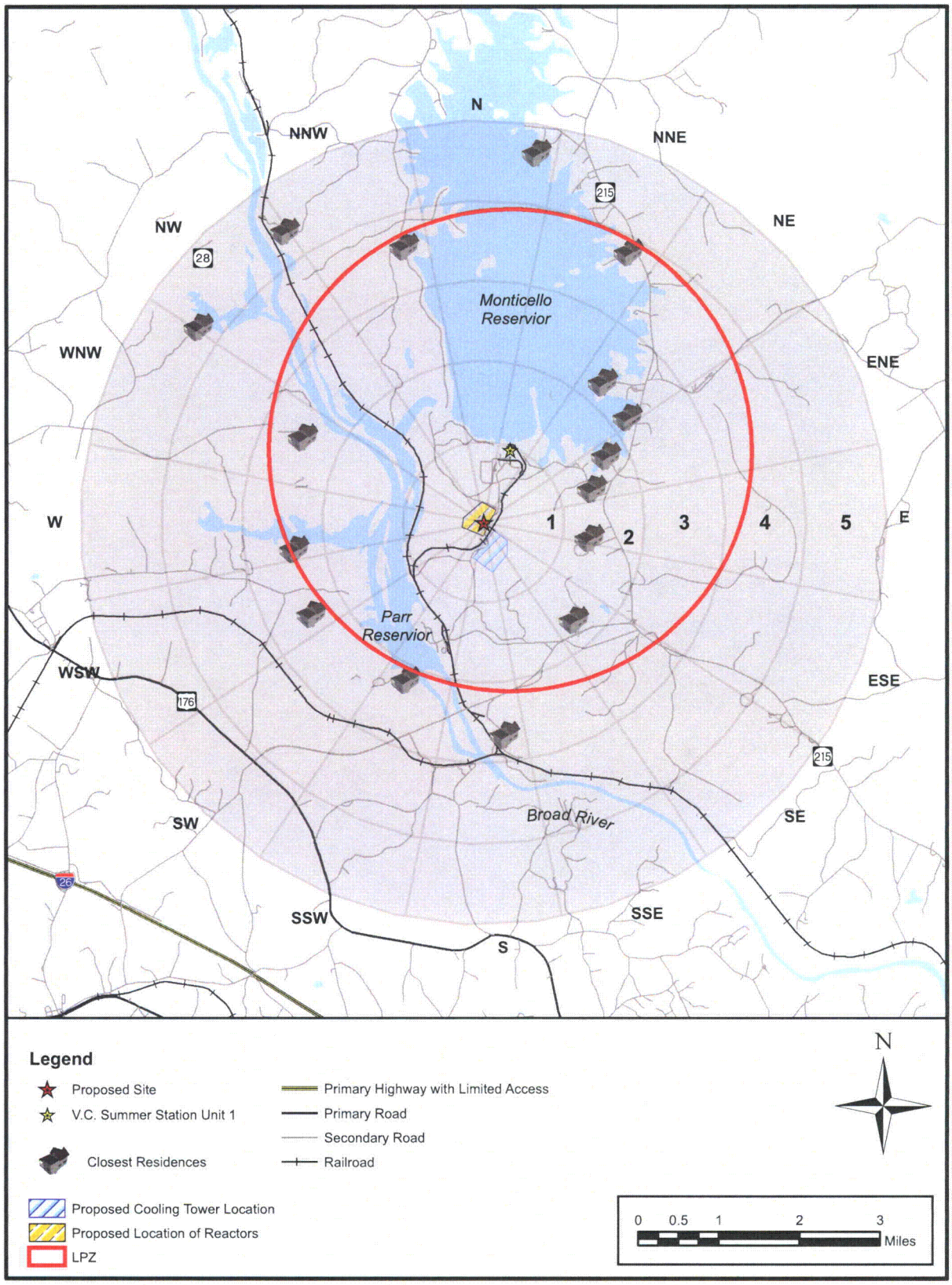


Figure 5.8-1 Closest Residences In Each of 16 Directions

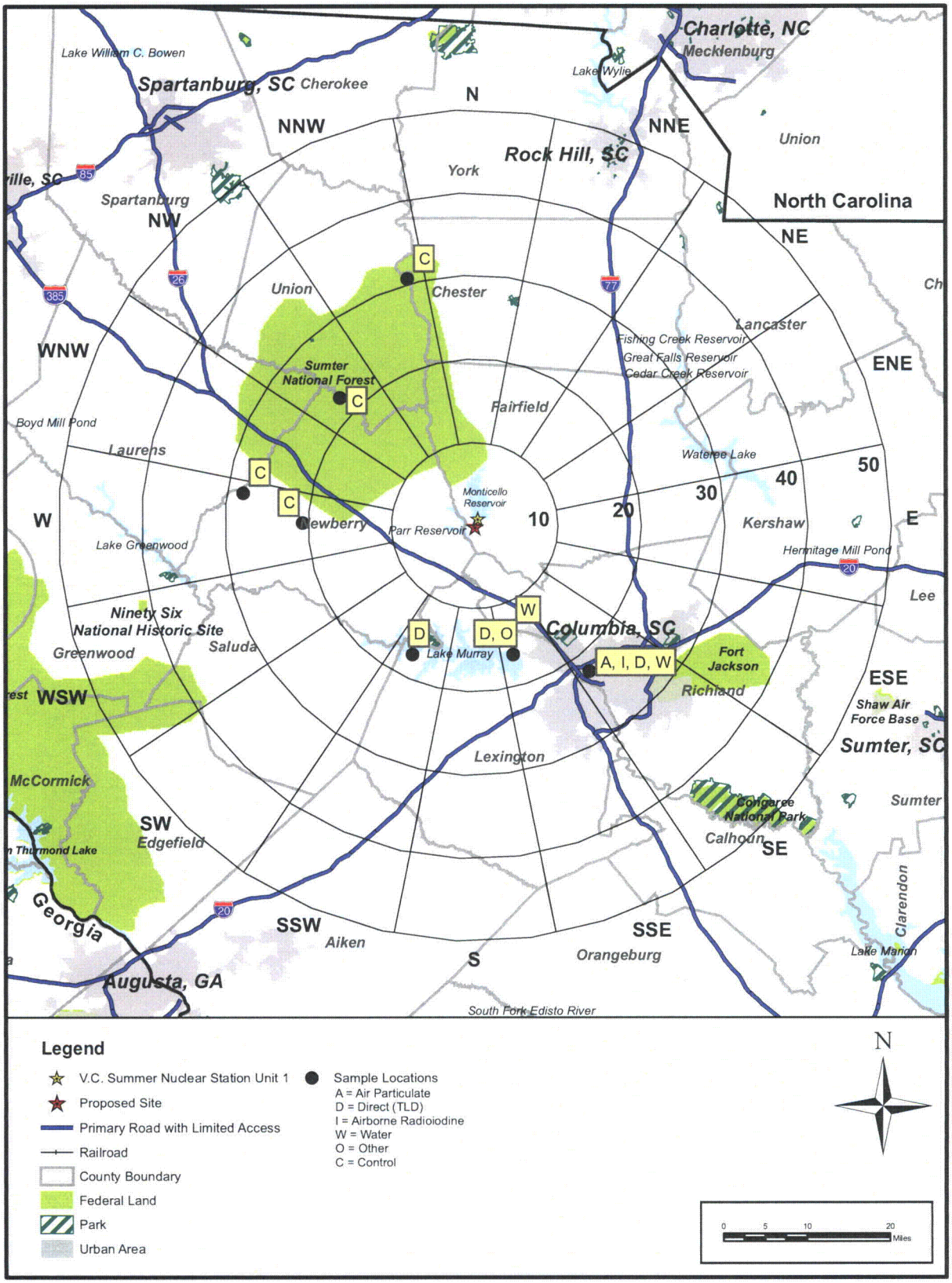


Figure 6.2-1 Existing Radiological Environmental Sample Locations (remote)

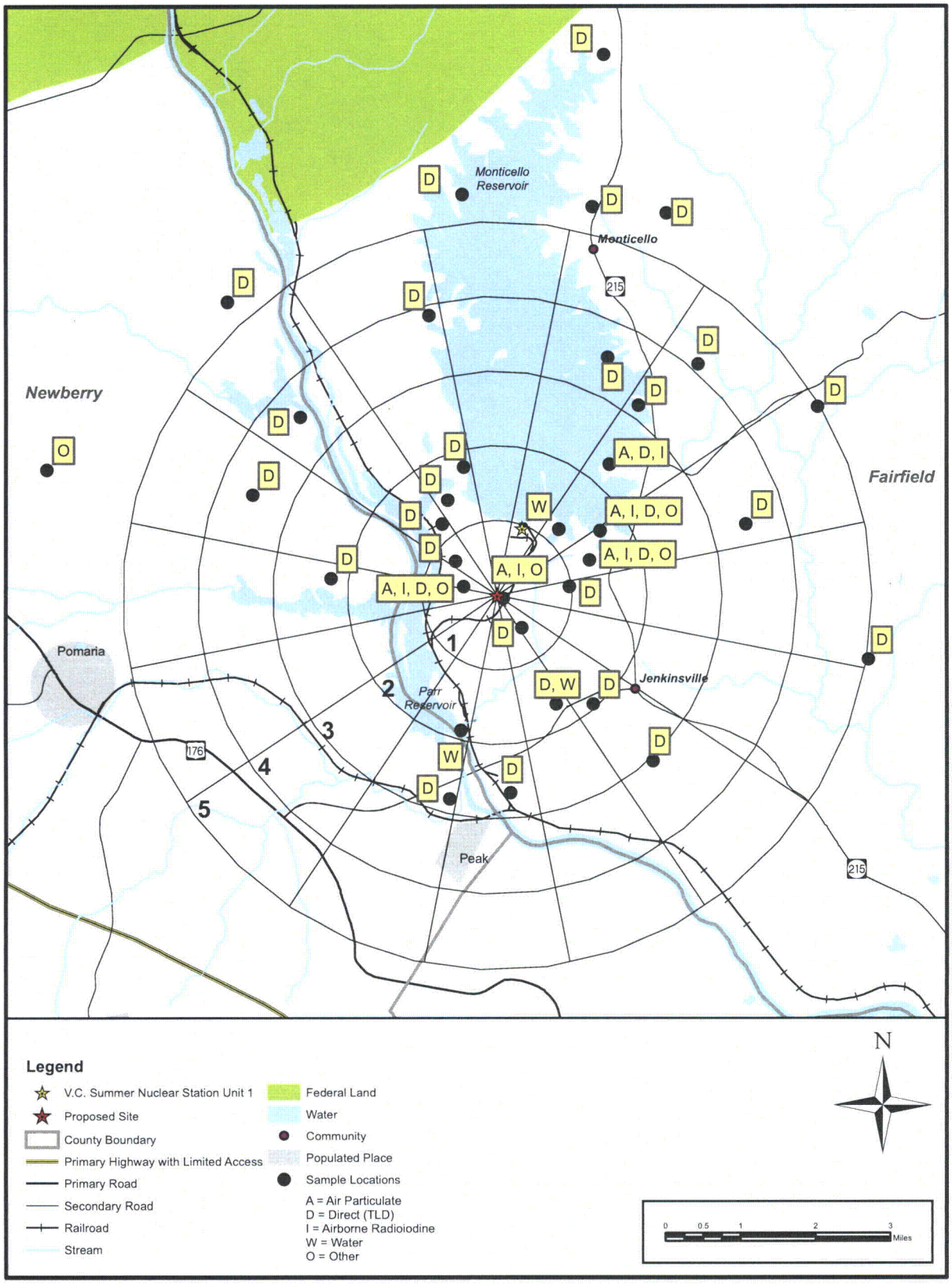


Figure 6.2-2 Existing Radiological Environmental Sample Locations (local)

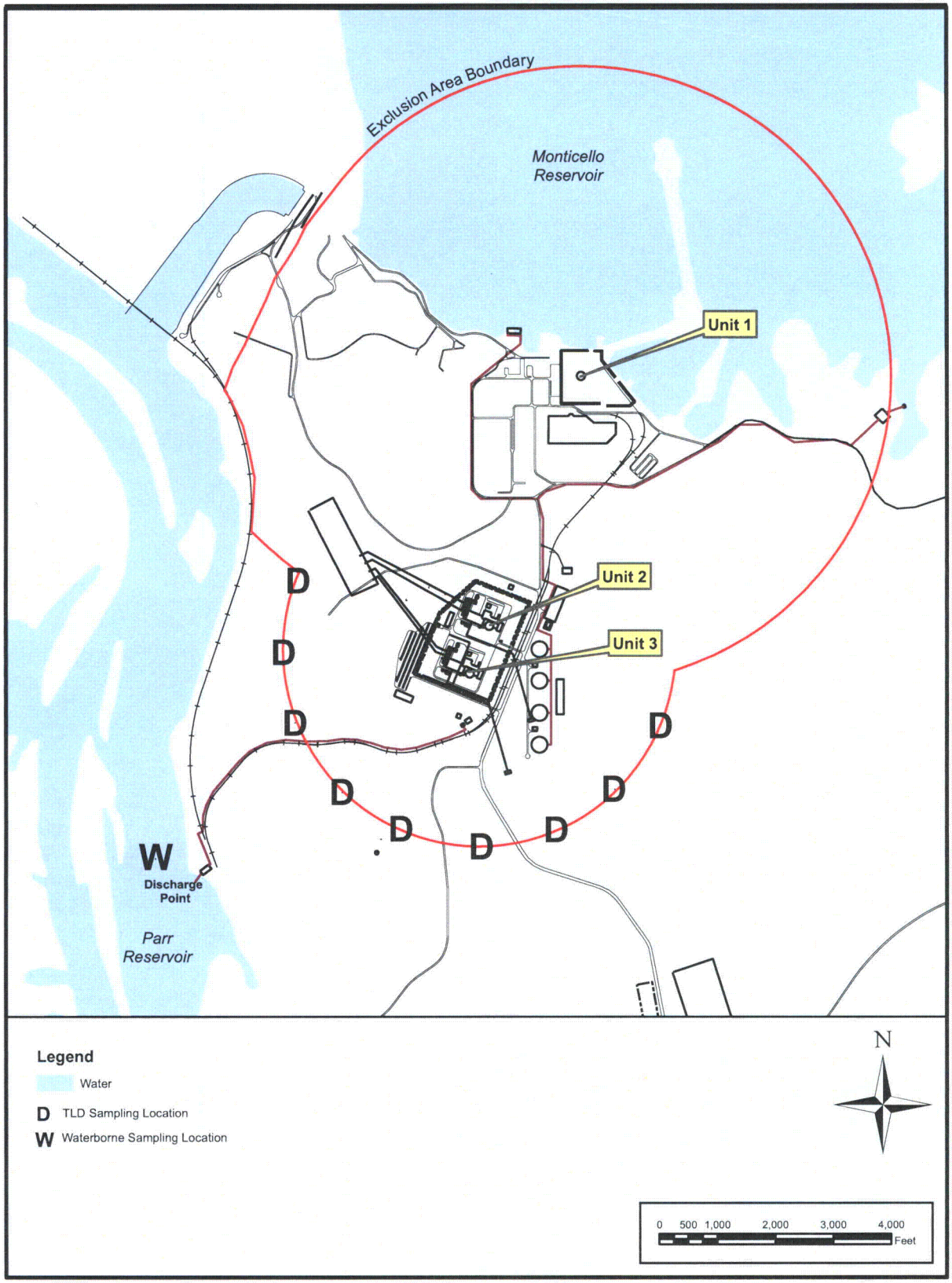


Figure 6.2-3 Proposed New Radiological Sampling Locations

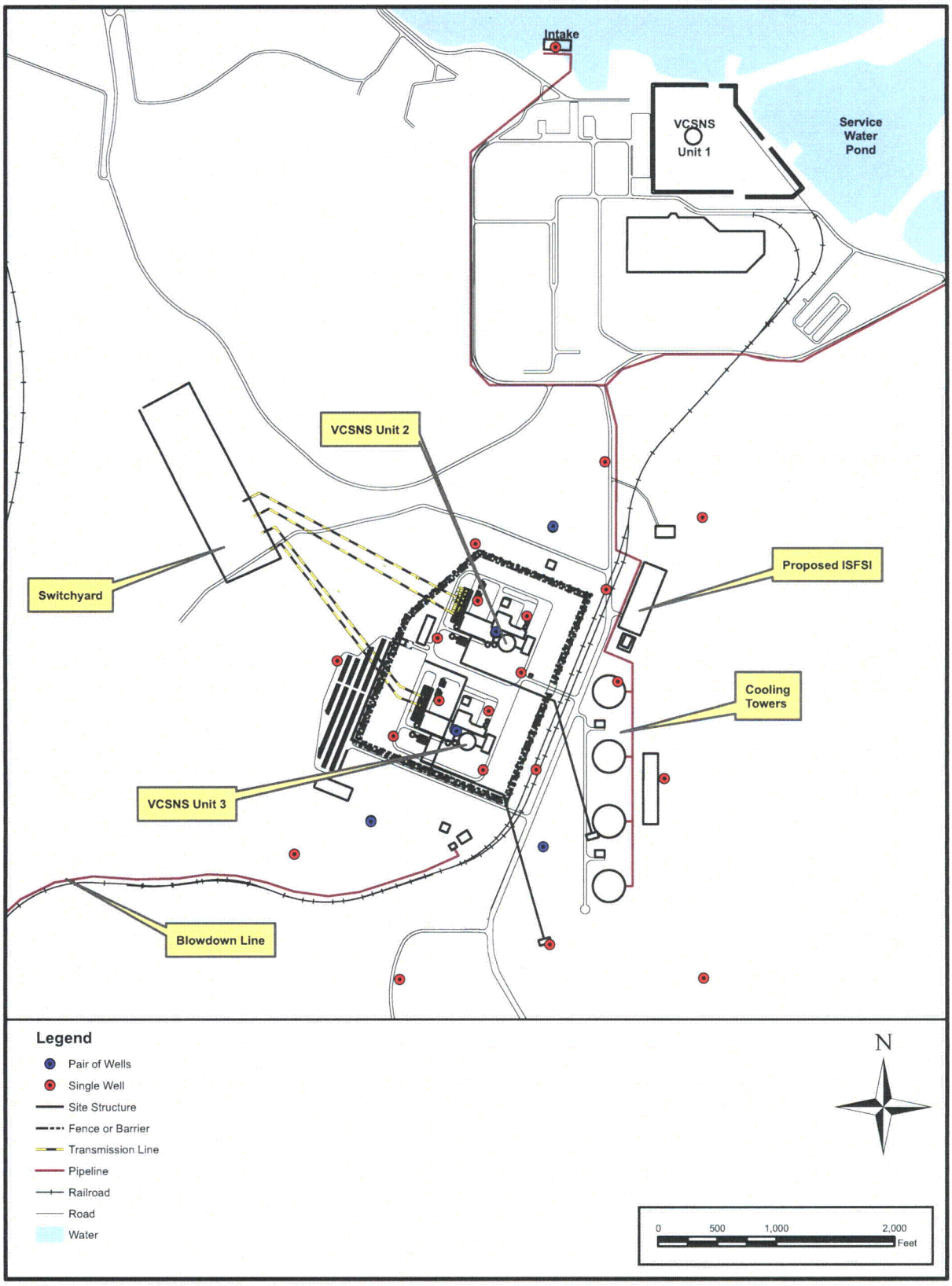


Figure 6.3-1 Observation Wells

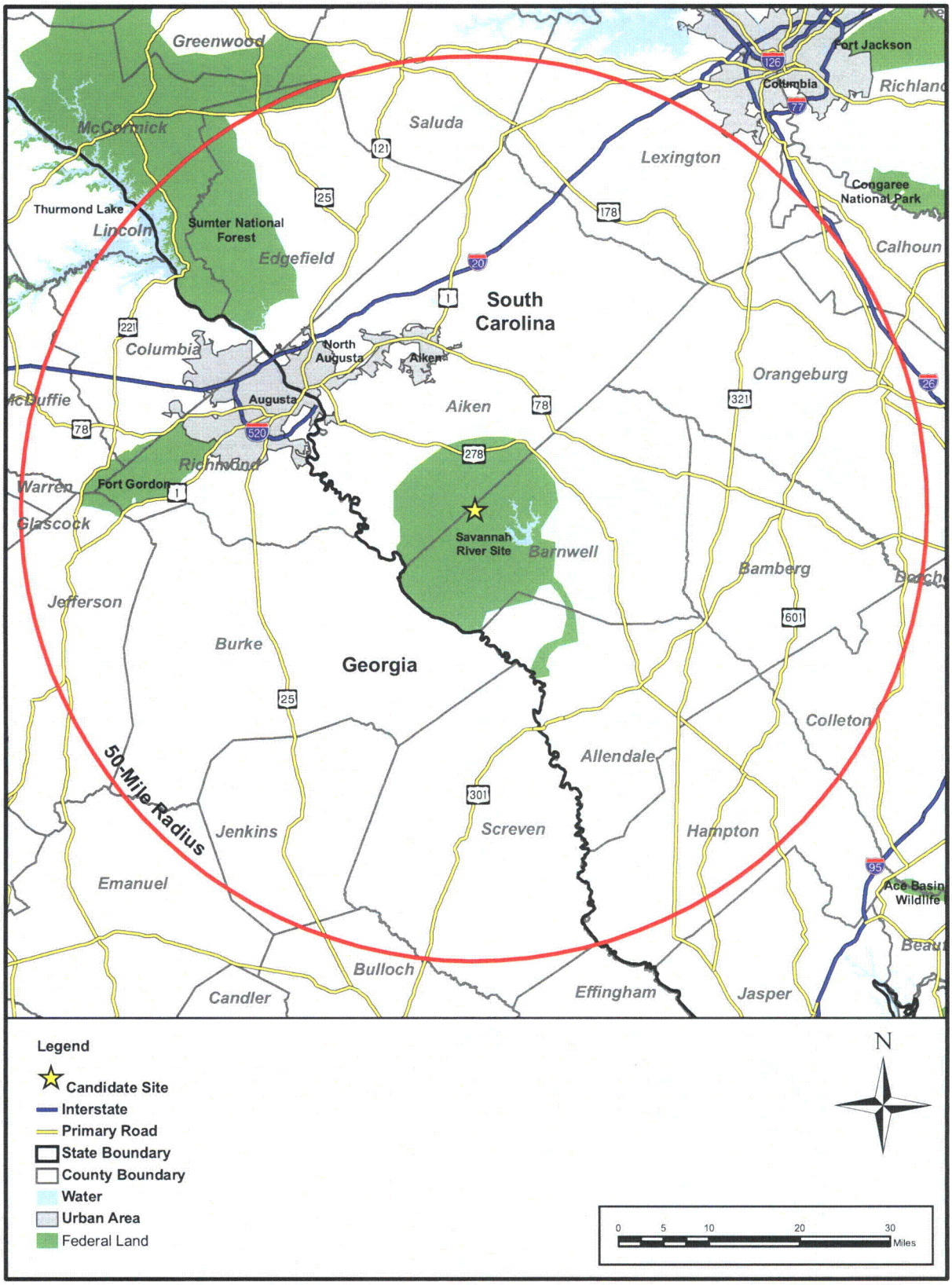


Figure 9.3-3 Savannah River Site

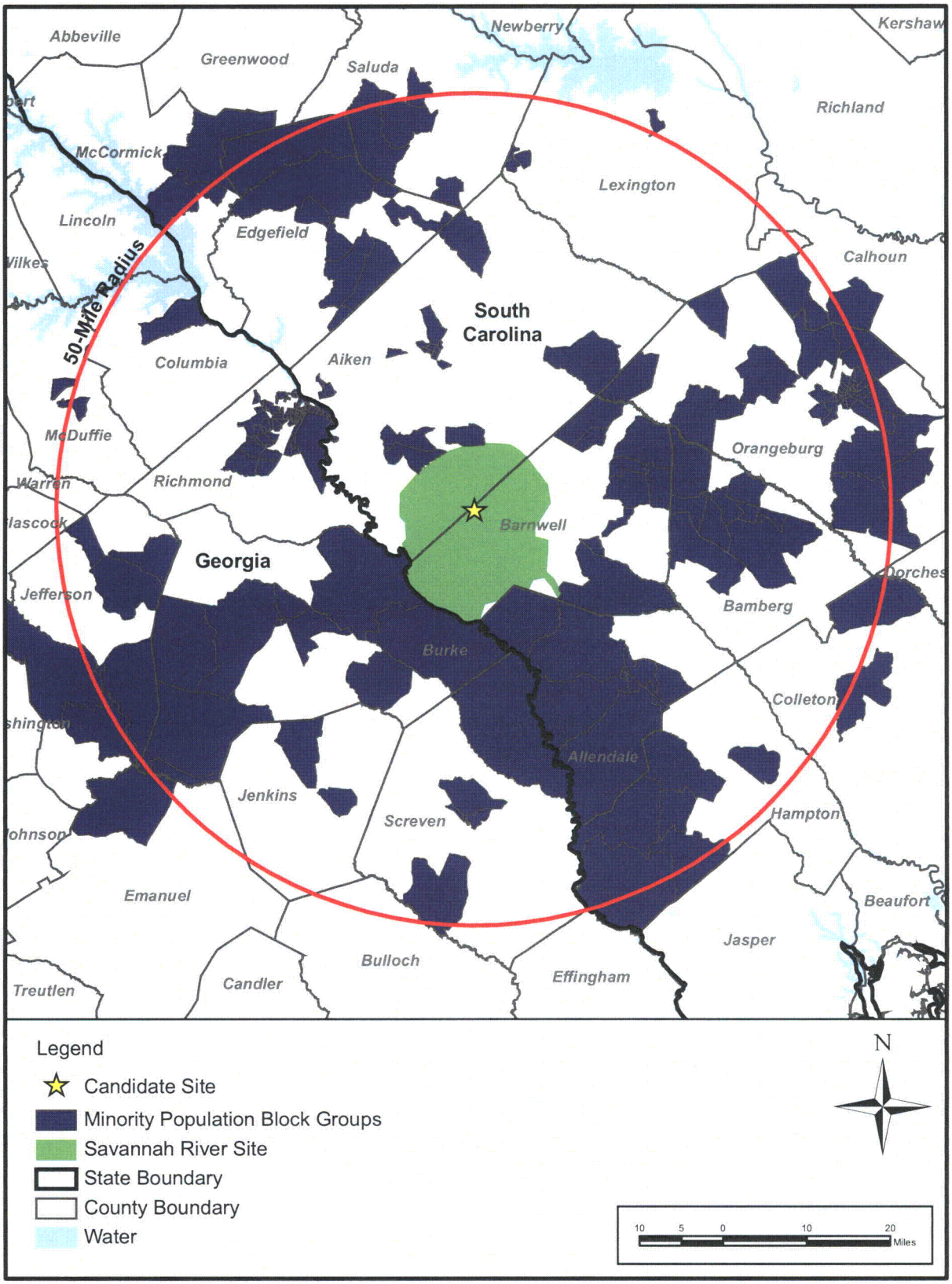


Figure 9.3-4 Minority Population Block Groups within 50 Miles of SRS

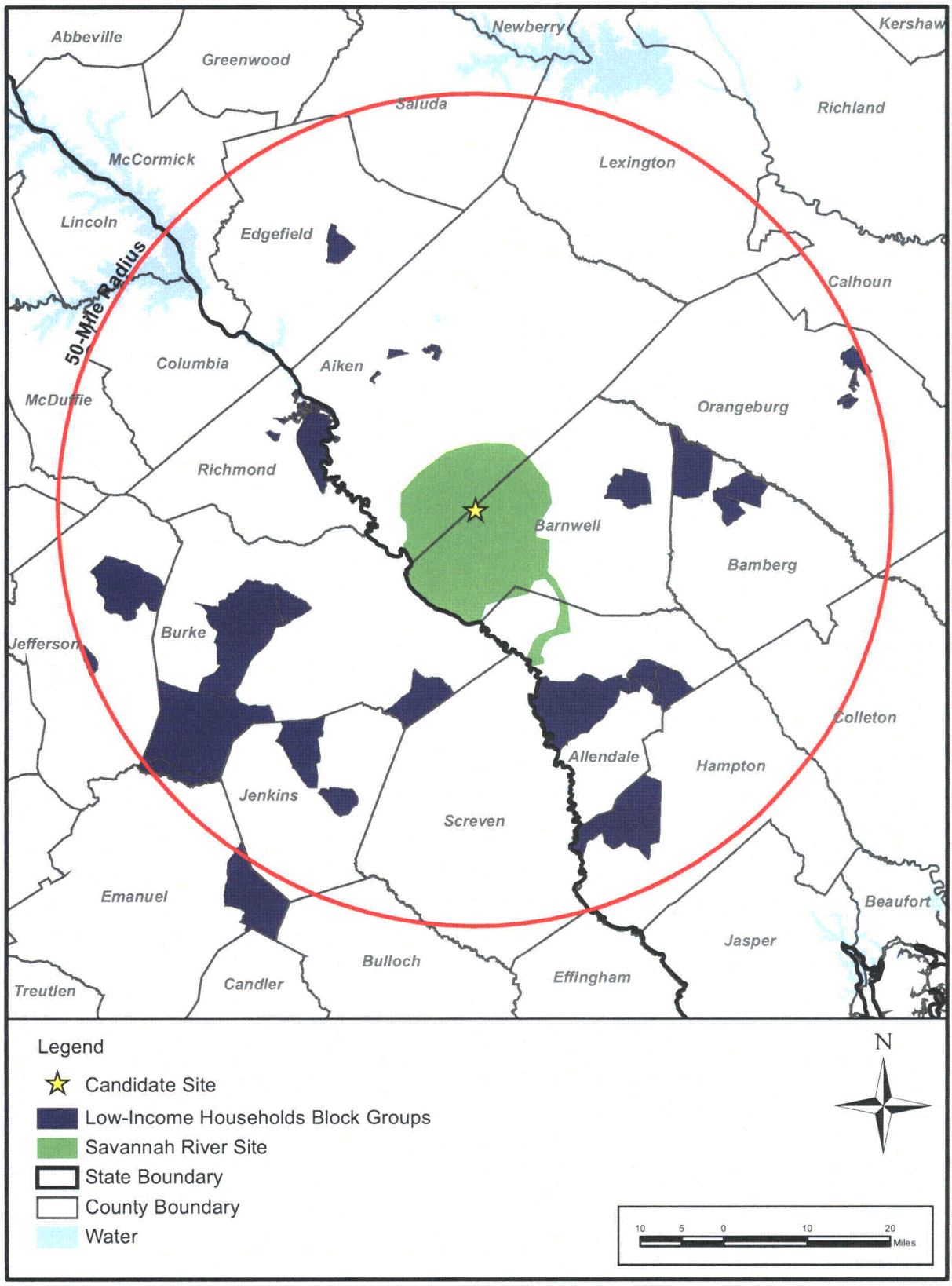


Figure 9.3-5 Low-Income Households Block Groups within 50 Miles of SRS

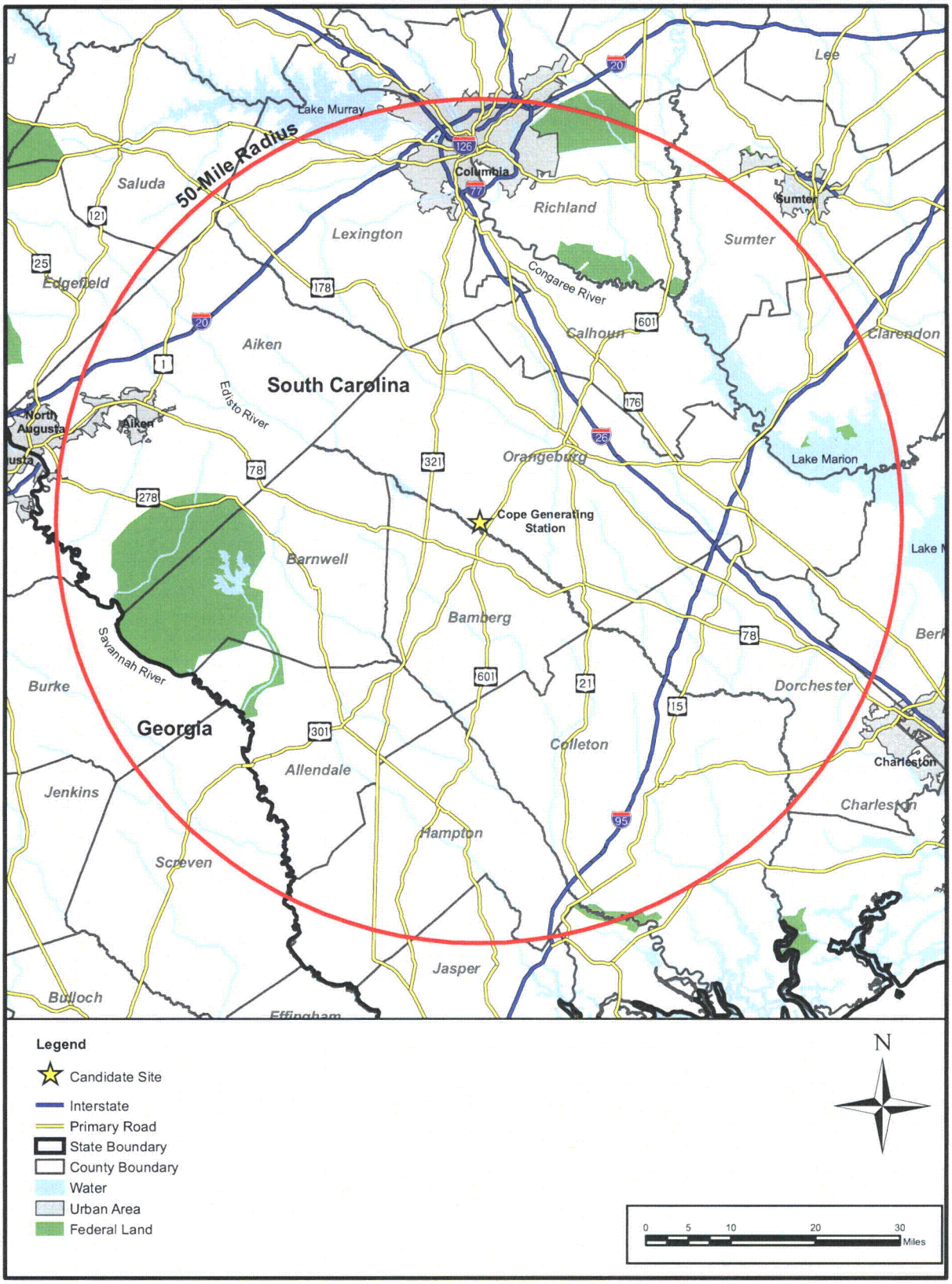


Figure 9.3-6 Cope Generating Station

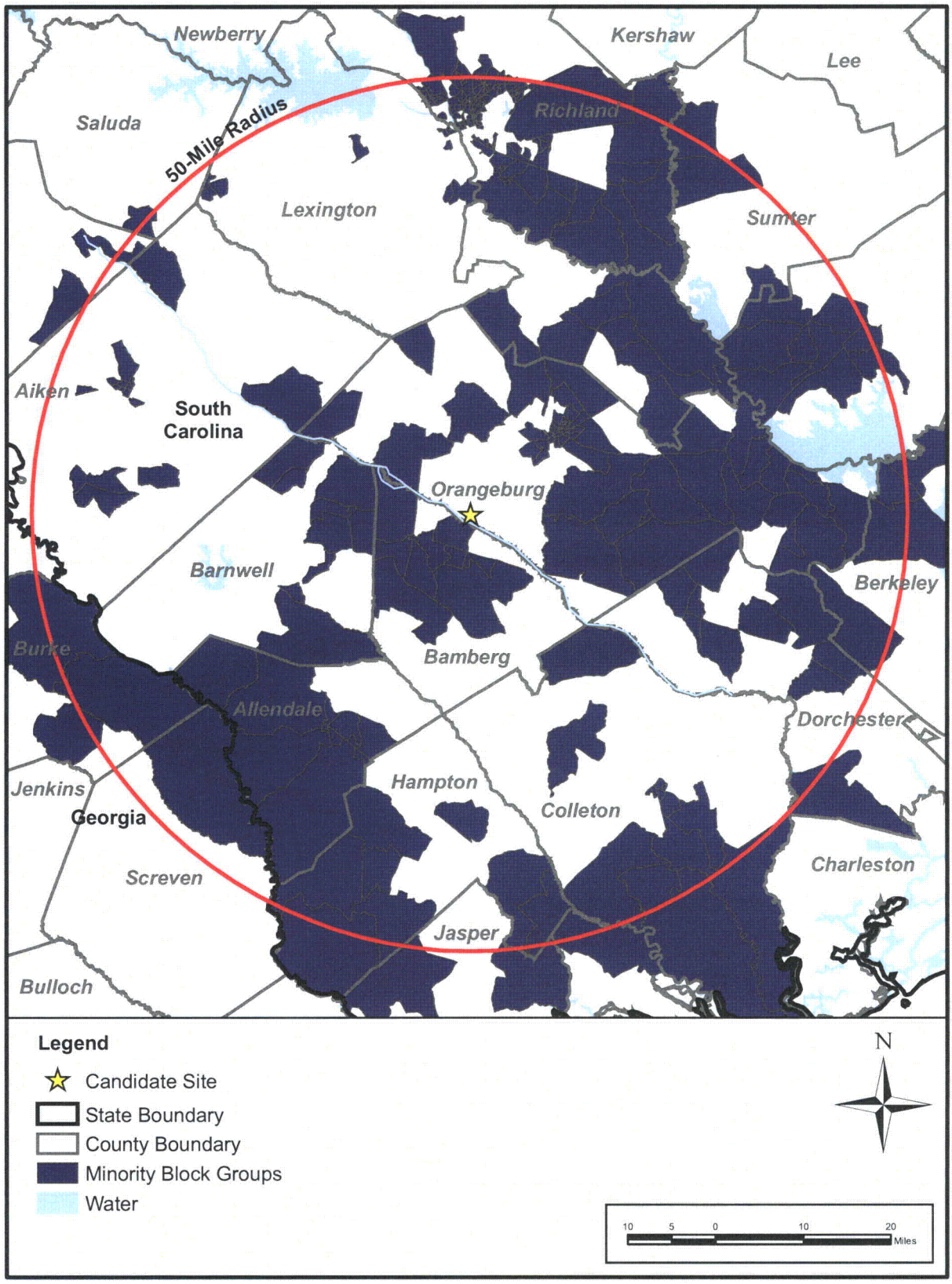


Figure 9.3-7 Minority Block Groups within 50 Miles of Cope Generating Station

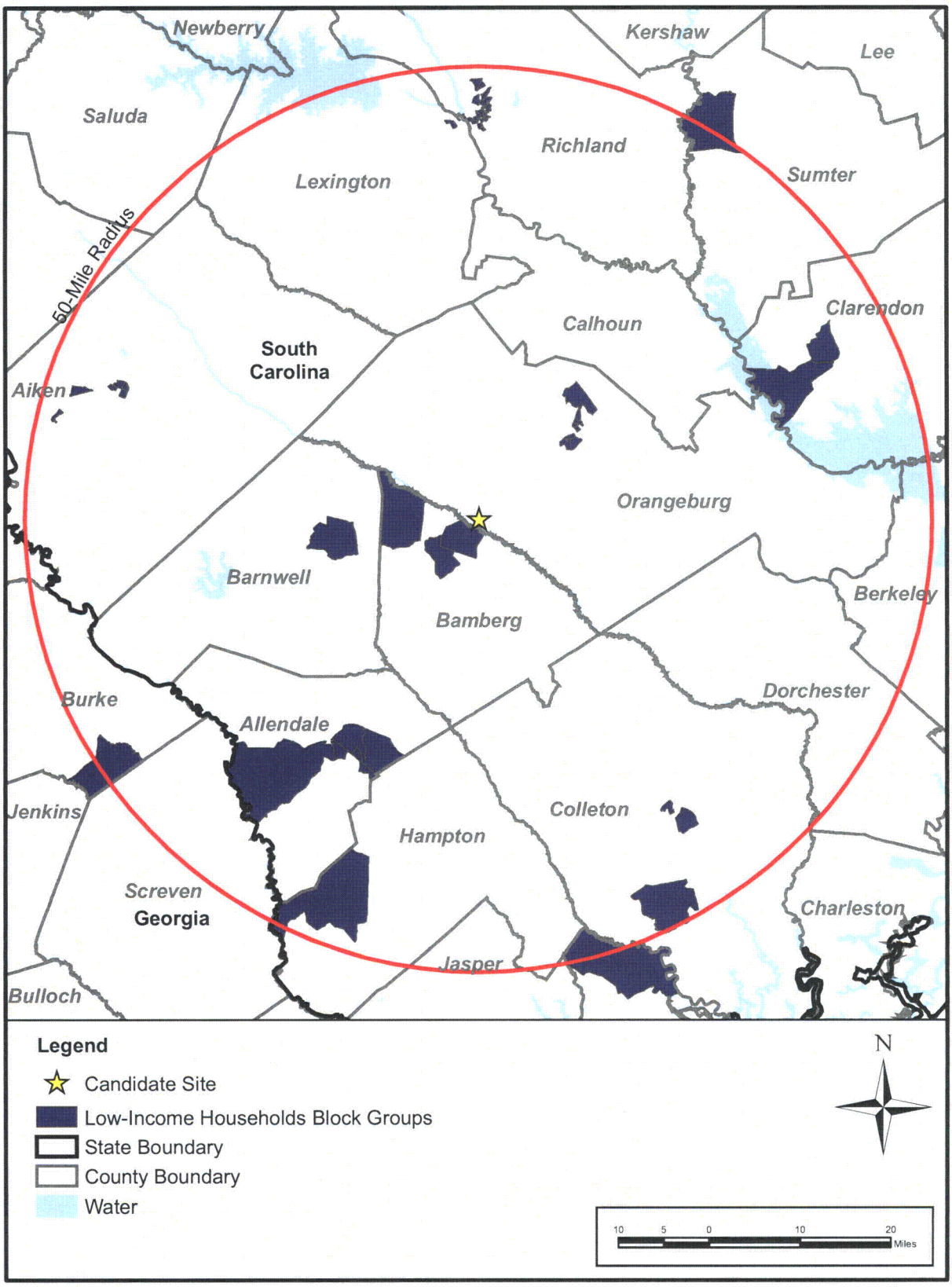


Figure 9.3-8 Low-Income Households Block Groups within 50 Miles of Cope Generating Station

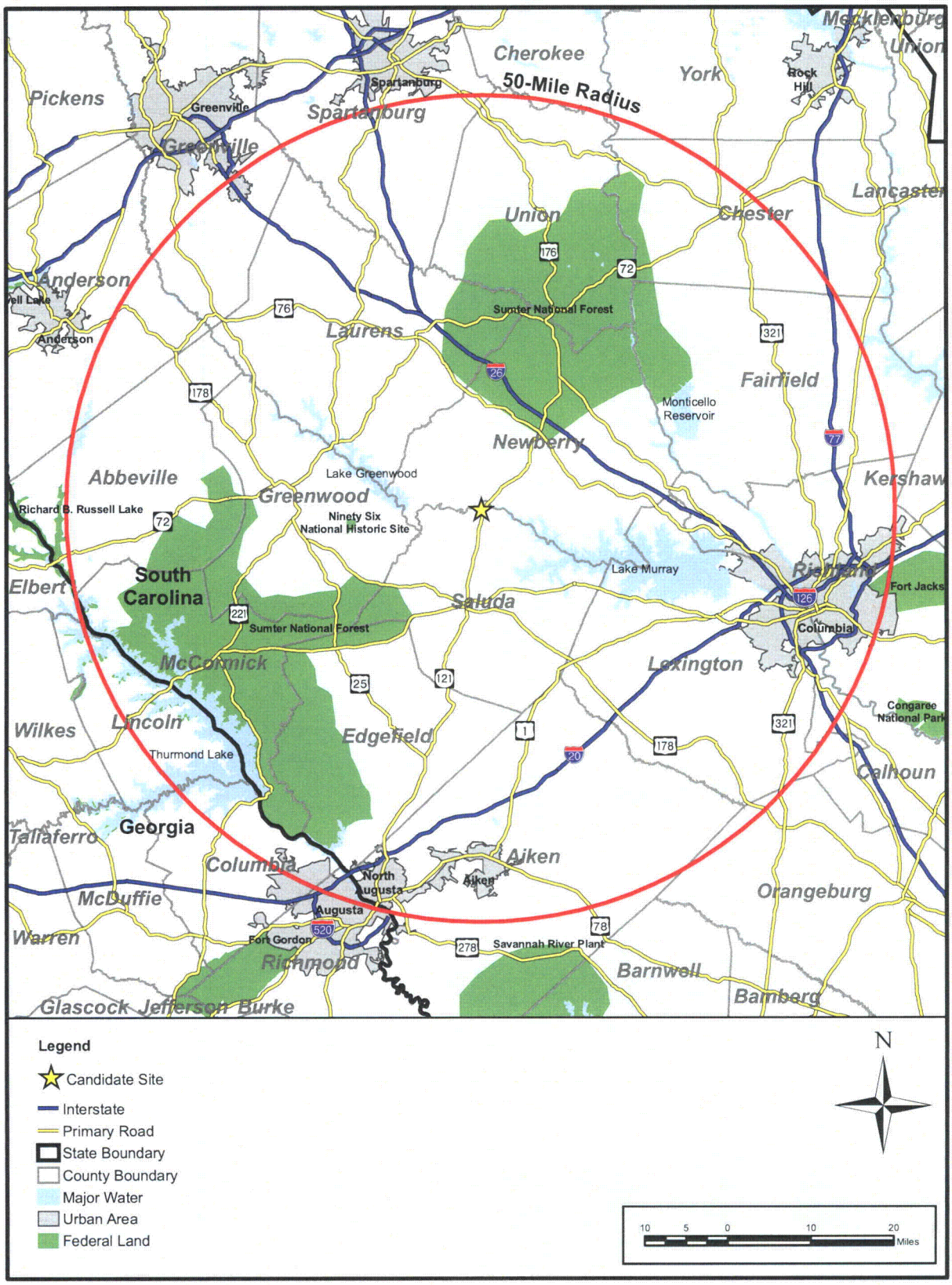


Figure 9.3-9 Saluda Site

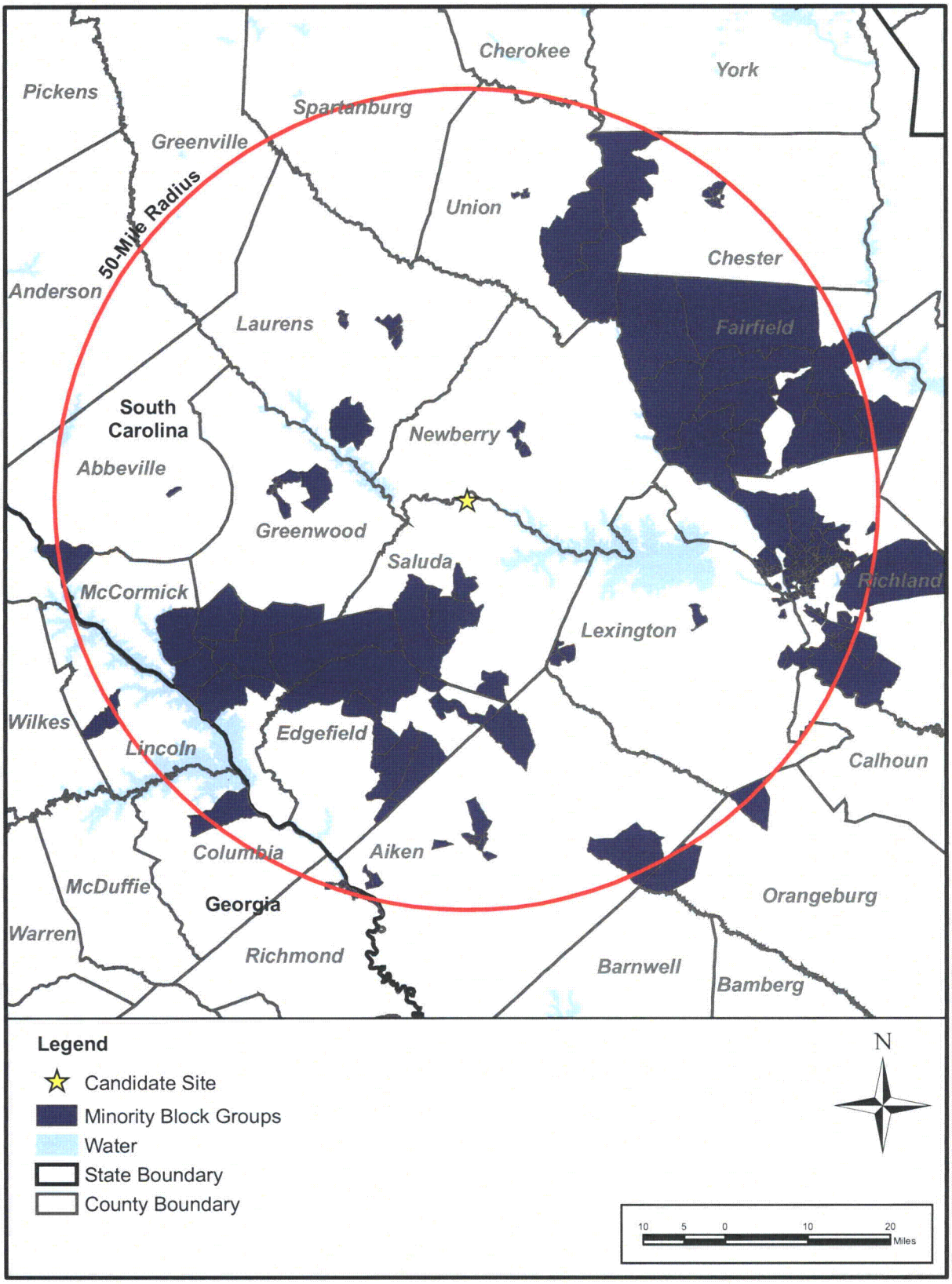


Figure 9.3-10 Minority Block Groups within 50 Miles of the Saluda Site

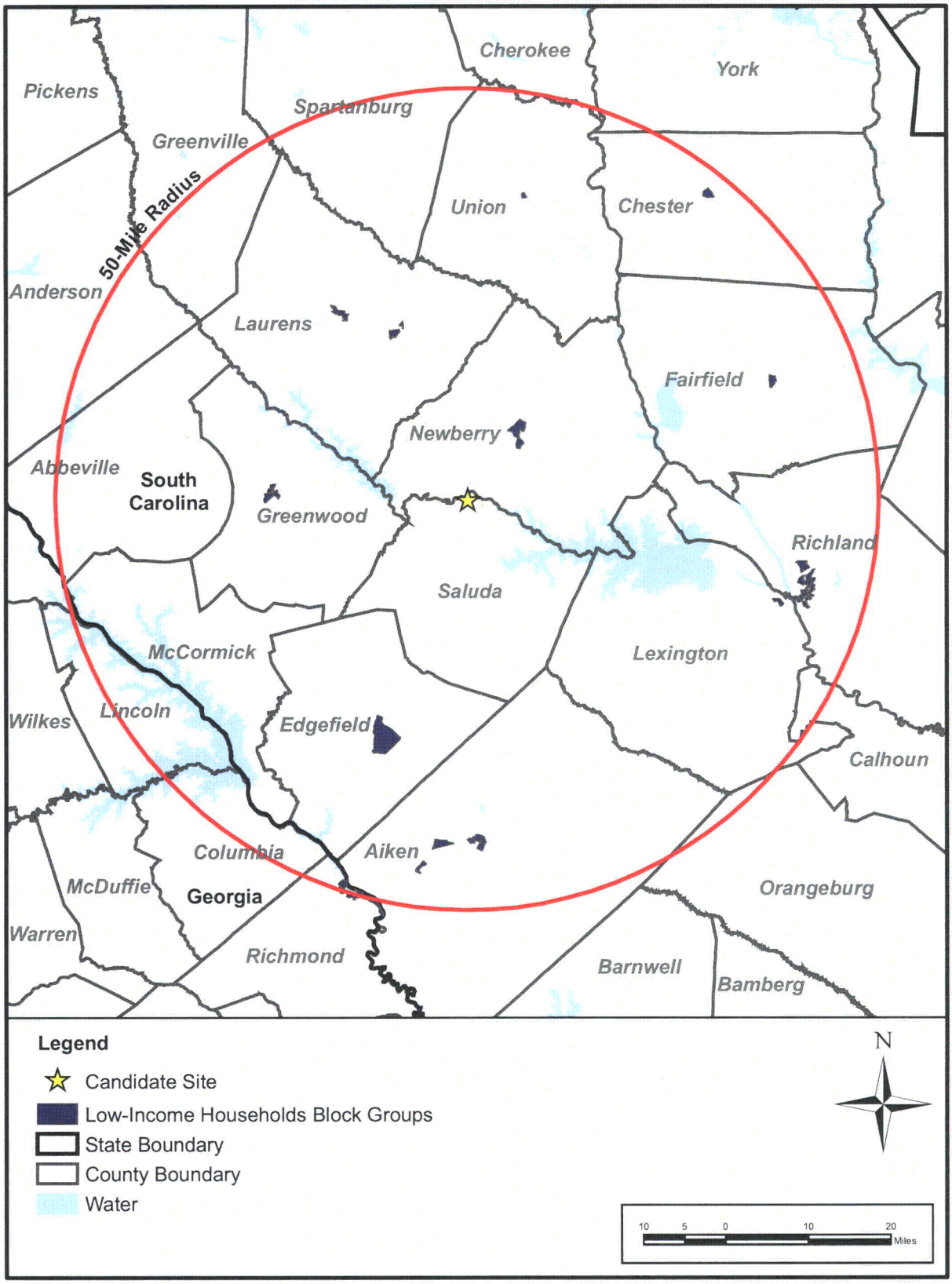
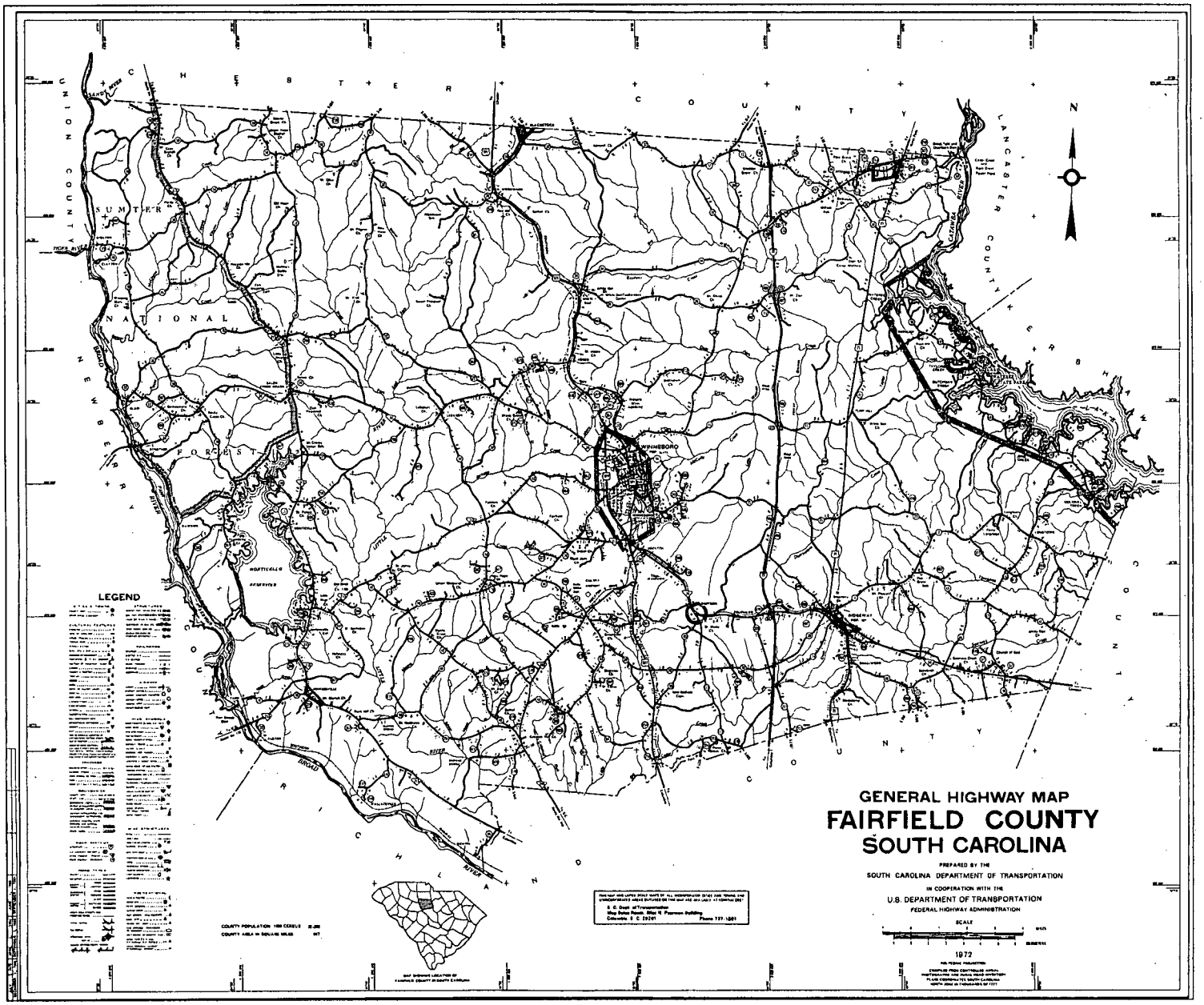


Figure 9.3-11 Low-Income Households Block Groups within 50 Miles of the Saluda Site


GENERAL HIGHWAY MAP
FAIRFIELD COUNTY
SOUTH CAROLINA
PREPARED BY THE
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
SCALE
1972
LEGEND
N
WINNSBORO
CHESTER COUNTY
LANCASTER COUNTY
NEWBERRY COUNTY
RICHLAND COUNTY
SUMTER NATIONAL FOREST
MONTICELLO RESERVOIR