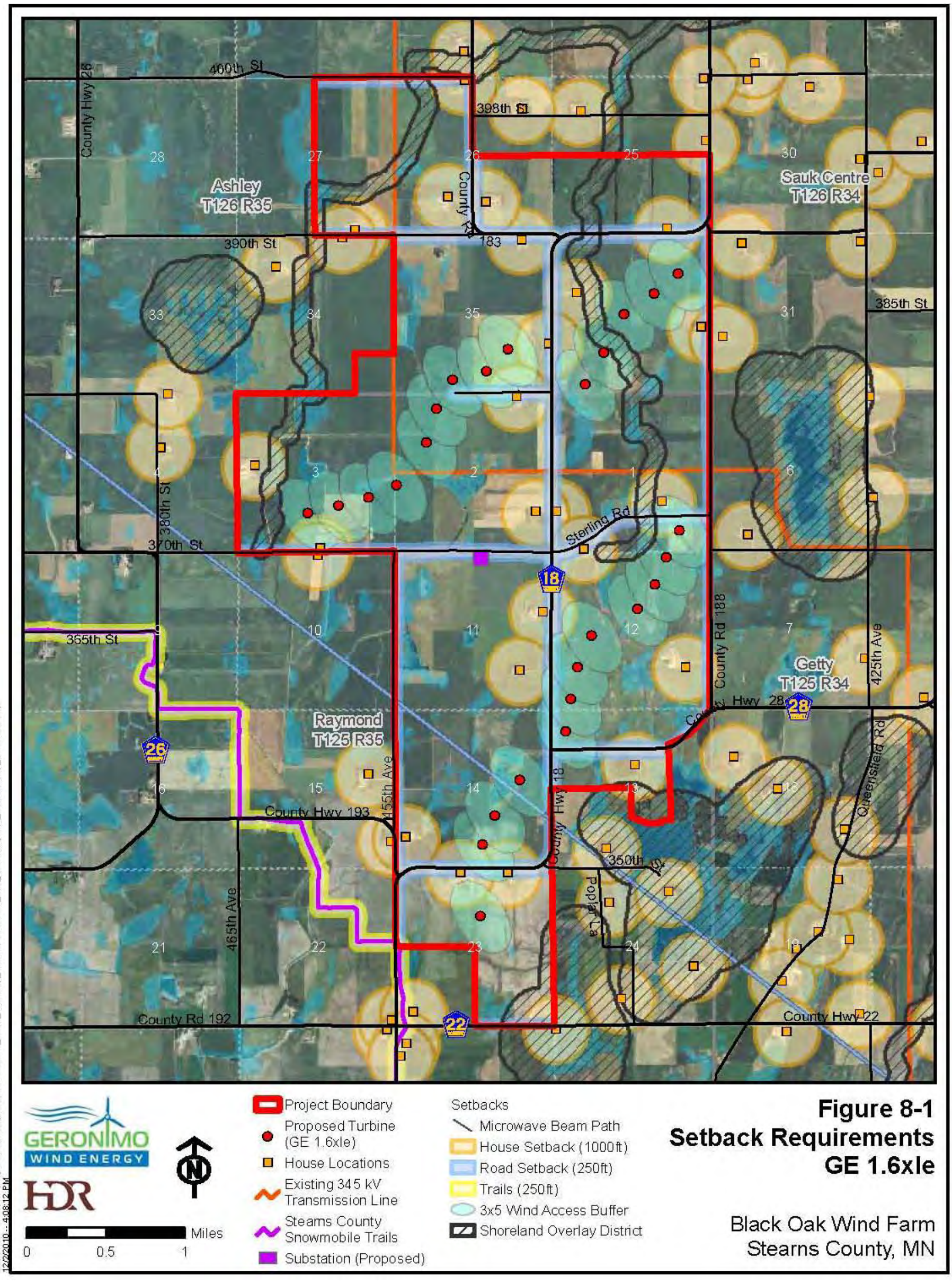
400th St
398th St
County Hwy 26
28
27
26
25
30
Ashley
T126 R35
County Rd 183
Sauk Centre
T126 R34
390th St
385th St
33
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31
4
3
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1
6
380th St
370th St
Sterling Rd
18
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10
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12
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365th St
County Rd 188
425th Ave
Getty
T125 R34
Raymond
T125 R35
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16
15
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18
455th Ave
County Hwy 193
County Hwy 18
350th St
Poplar Ln
Queensfield Rd
21
22
23
24
19
County Rd 192
County Hwy 22
22
Project Boundary
Proposed Turbine (GE 1.6xle)
House Locations
Existing 345 kV Transmission Line
Steams County Snowmobile Trails
Substation (Proposed)
Setbacks
Microwave Beam Path
House Setback (1000ft)
Road Setback (250ft)
Trails (250ft)
3x5 Wind Access Buffer
Shoreland Overlay District
GERONIMO WIND ENERGY
HDR
N
Miles
0
0.5
1
Figure 8-1
Setback Requirements
GE 1.6xle
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISProj\Geronimo\1113816_Black_Oak\map_docs\mxd\WEC S_Site_PermitFig8-01_SetbackMap_GE16xle.mxd)
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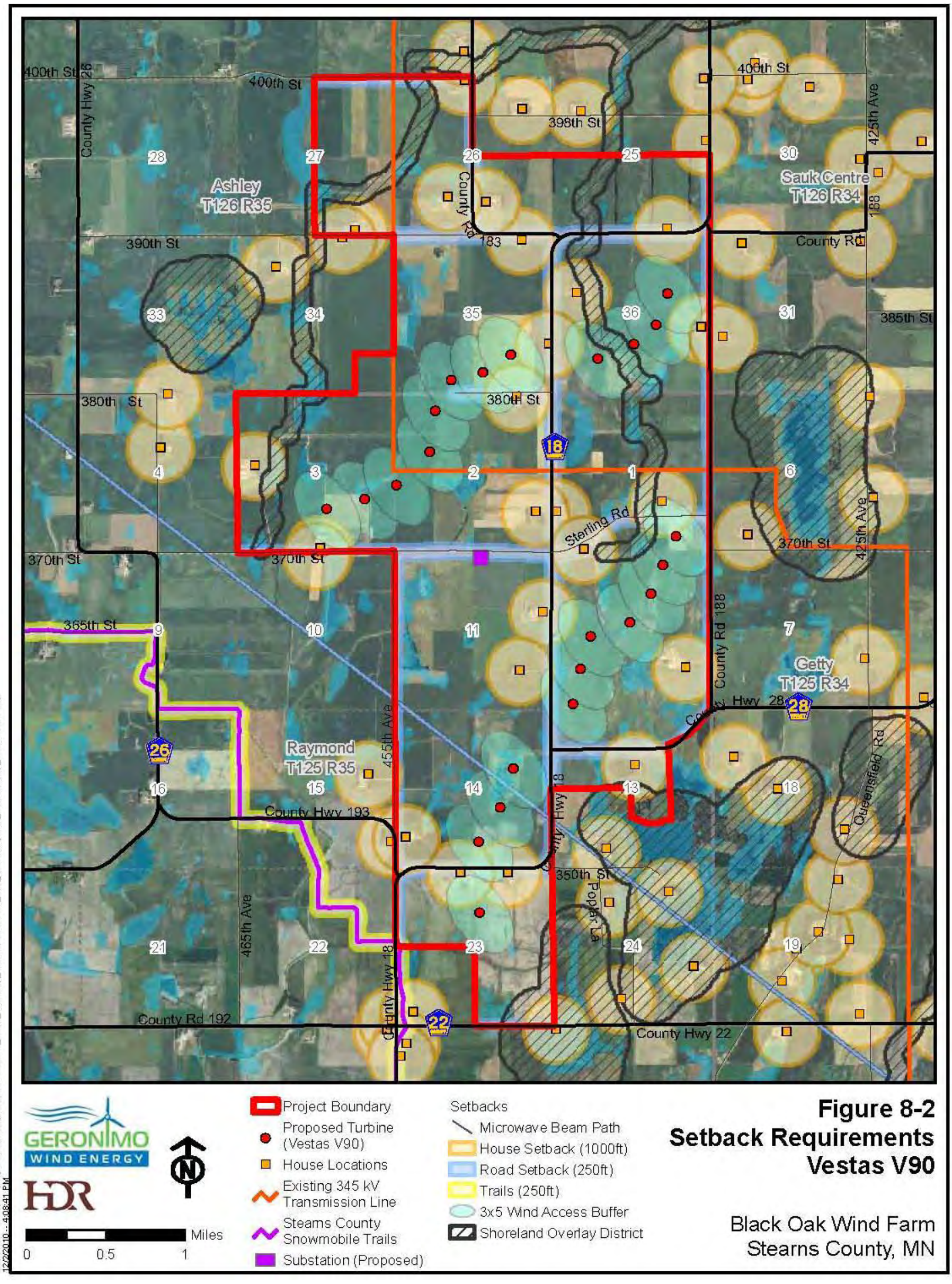
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County Hwy 28
400th St
398th St
400th St
425th Ave
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Ashley
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County Rd
Sauk Centre
T126 R34
188
390th St
183
County Rd
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31
385th St
380th St
380th St
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Sterling Rd
370th St
370th St
425th Ave
370th St
365th St
9
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7
County Rd 188
Getty
T125 R34
Hwy 28
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26
Raymond
T125 R35
455th Ave
16
15
14
13
18
Queensfield Rd
County Hwy 193
Hwy 18
350th St
Poplar Ln
21
22
23
24
19
465th Ave
County Hwy 18
22
County Rd 192
County Hwy 22
Project Boundary
Proposed Turbine (Vestas V90)
House Locations
Existing 345 kV Transmission Line
Steams County Snowmobile Trails
Substation (Proposed)
Setbacks
Microwave Beam Path
House Setback (1000ft)
Road Setback (250ft)
Trails (250ft)
3x5 Wind Access Buffer
Shoreland Overlay District
Miles
0
0.5
1
Figure 8-2
Setback Requirements
Vestas V90
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISProj\Geronimo\1113816_Black_Oak\map_docs\mxd\WECS_Site_PermitFig8-02_SetbackMap_VestasV90.mxd)
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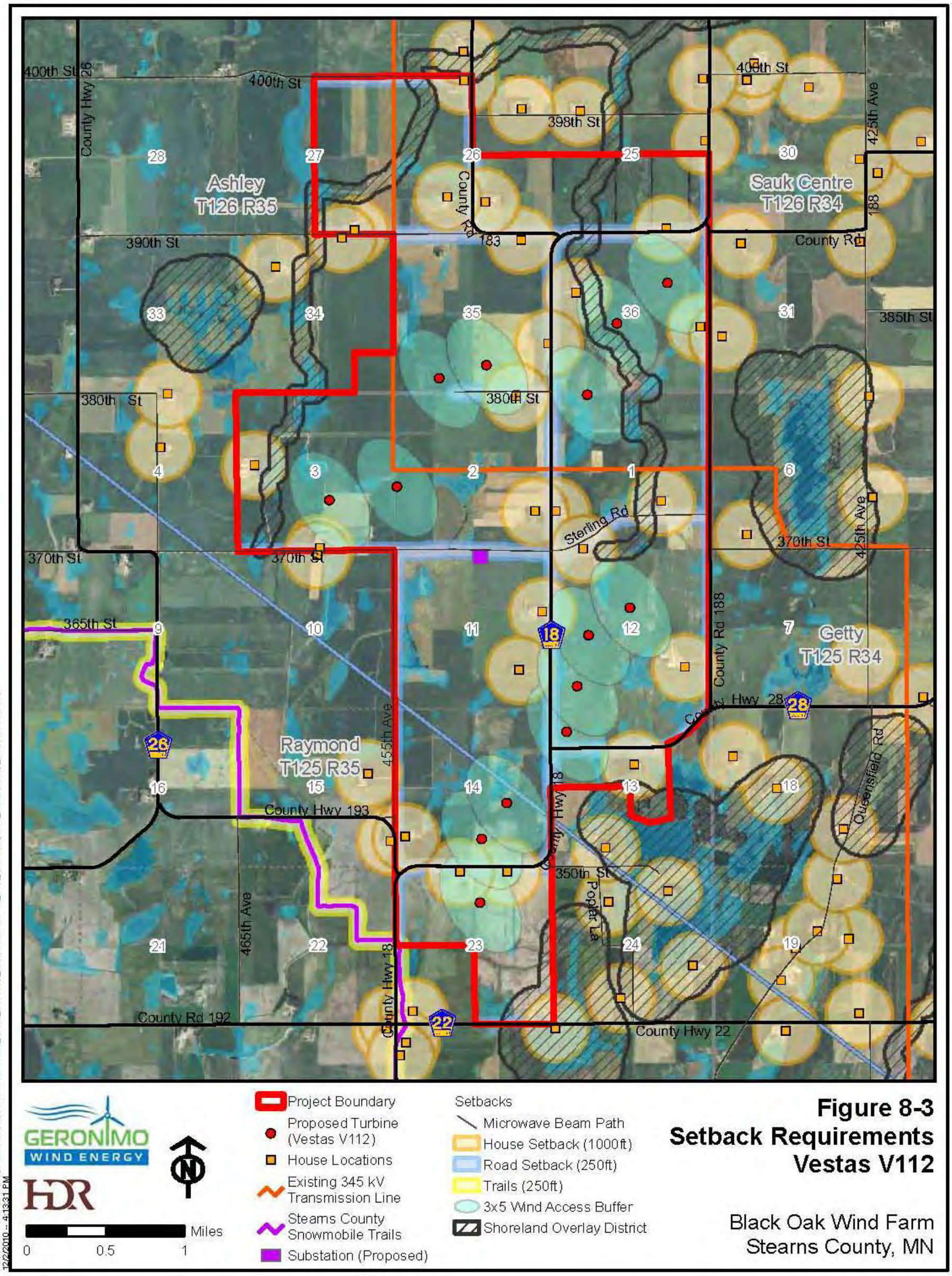
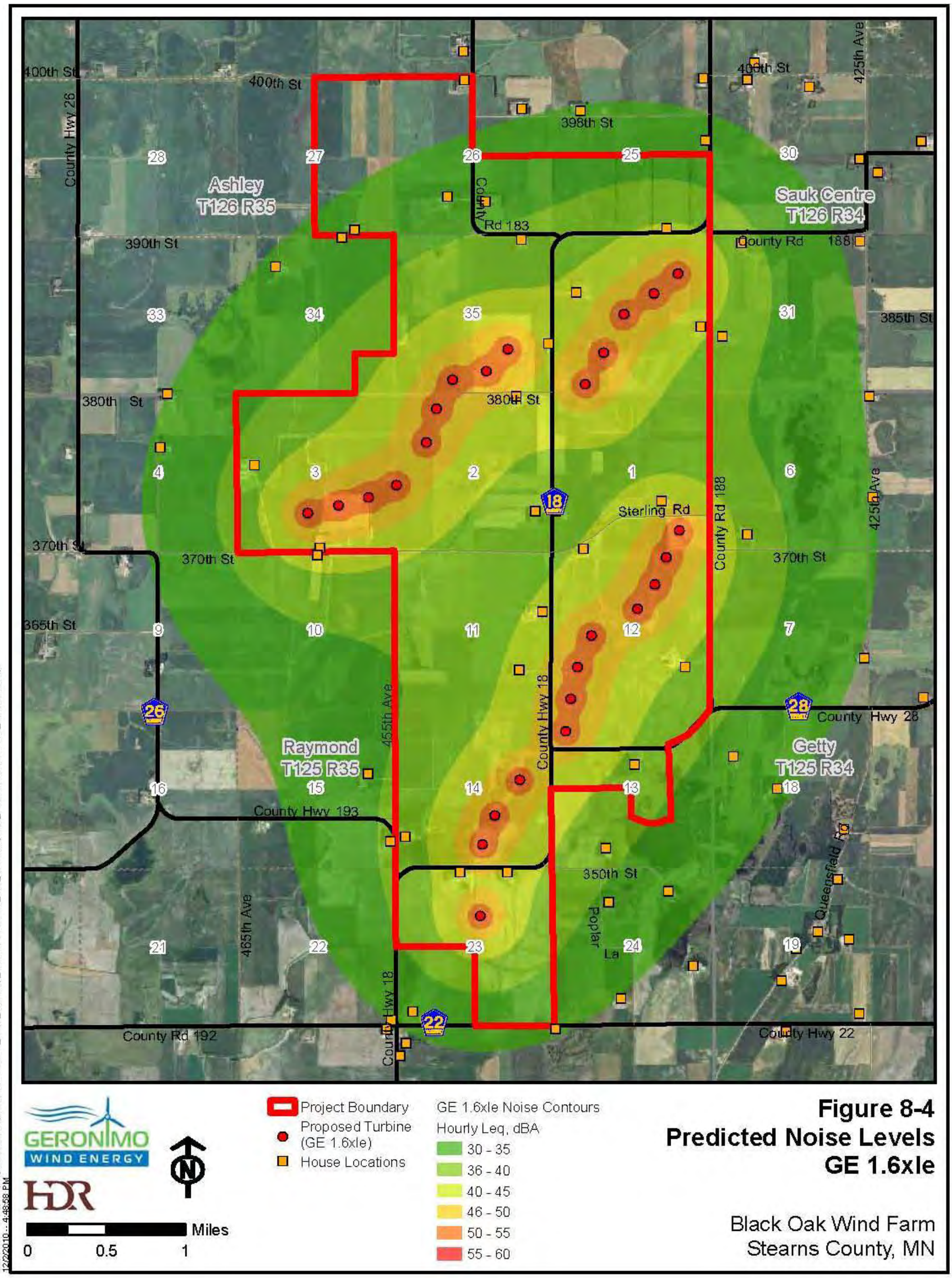


Figure 8-3
Setback Requirements
Vestas V112

Black Oak Wind Farm
Stearns County, MN


400th St
County Hwy 26
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Ashley
T126 R35
398th St
County Rd 183
Sauk Centre
T126 R34
390th St
County Rd 188
425th Ave
33
34
35
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385th St
380th St
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Sterling Rd
370th St
365th St
9
10
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12
7
26
28
County Hwy 28
Raymond
T125 R35
455th Ave
County Hwy 18
Getty
T125 R34
15
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16
County Hwy 193
350th St
Queensfield Rd
Poplar
La
21
465th Ave
22
23
24
19
County Rd 192
County Hwy 22
Project Boundary
Proposed Turbine
(GE 1.6xle)
House Locations
GE 1.6xle Noise Contours
Hourly Leq, dBA
30 - 35
36 - 40
40 - 45
46 - 50
50 - 55
55 - 60
GERONIMO
WIND ENERGY
HDR
N
Miles
0
0.5
1
Figure 8-4
Predicted Noise Levels
GE 1.6xle
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISProj\Geronimo\1113816_Black_Oak\map_docs\mxd\JW\ECS_Site_PermitFig8-04_PredictedNoiseLevels_GE18xle.mxd)
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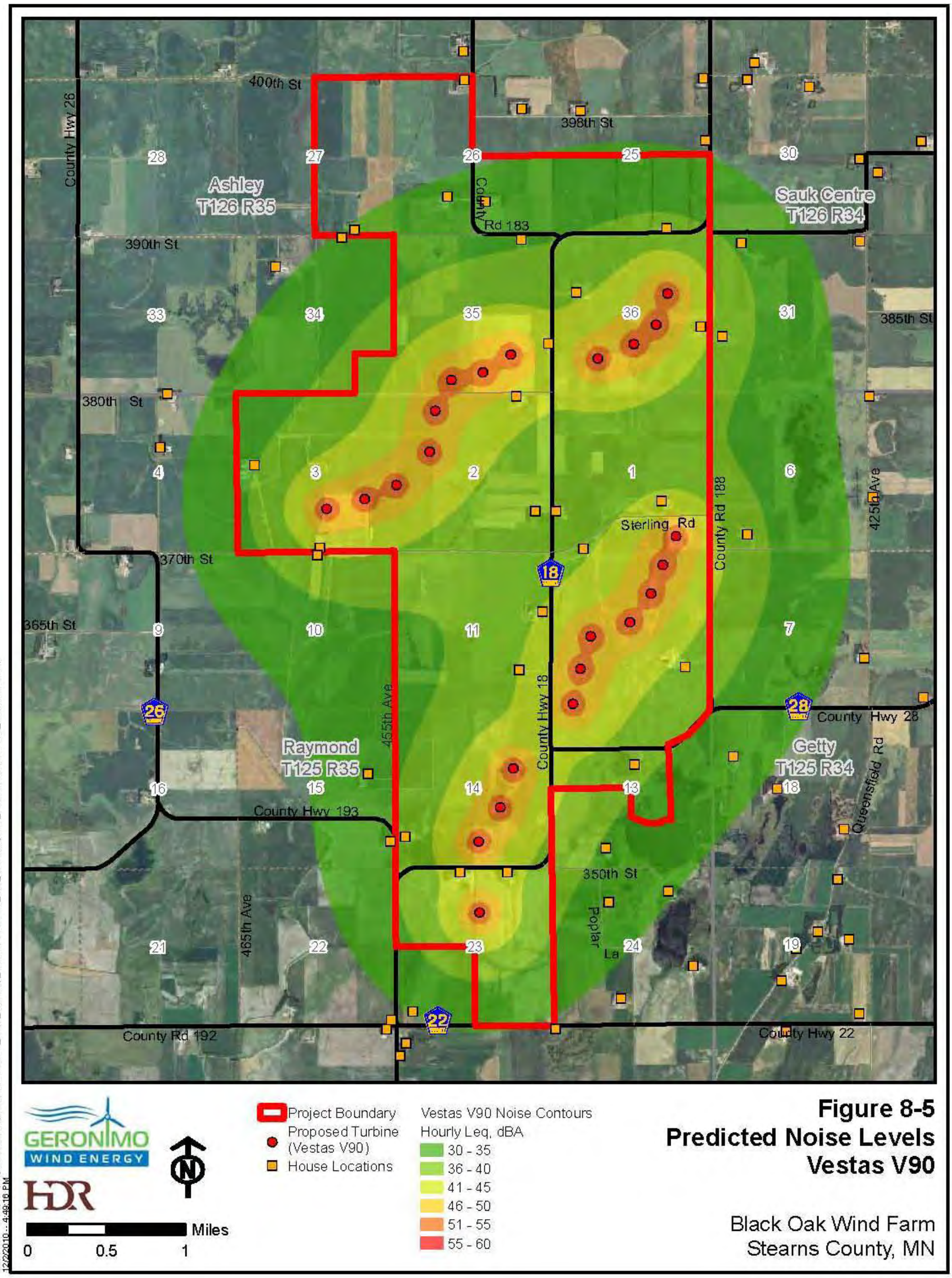
400th St
398th St
County Hwy 26
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Ashley
T126 R35
County Rd 183
Sauk Centre
T126 R34
390th St
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36
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385th St
380th St
4
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1
6
Sterling Rd
County Rd 188
425th Ave
370th St
18
365th St
9
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7
455th Ave
County Hwy 18
25
28
County Hwy 28
Raymond
T125 R35
15
14
Getty
T125 R34
18
16
13
Queensfield Rd
County Hwy 193
350th St
465th Ave
Poplar
La
21
22
23
24
19
22
County Rd 192
County Hwy 22
GERONIMO
WIND ENERGY
HDR
N
Miles
0
0.5
1
Project Boundary
Proposed Turbine
(Vestas V90)
House Locations
Vestas V90 Noise Contours
Hourly Leq, dBA
30 - 35
36 - 40
41 - 45
46 - 50
51 - 55
55 - 60
Figure 8-5
Predicted Noise Levels
Vestas V90
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISProj\Geronimo\1113816_Black_Oak\map_docs\mxd\JW\ECS_Site_PermitFig8-05_PredictedNoiseLevels_VestasV90.mxd)
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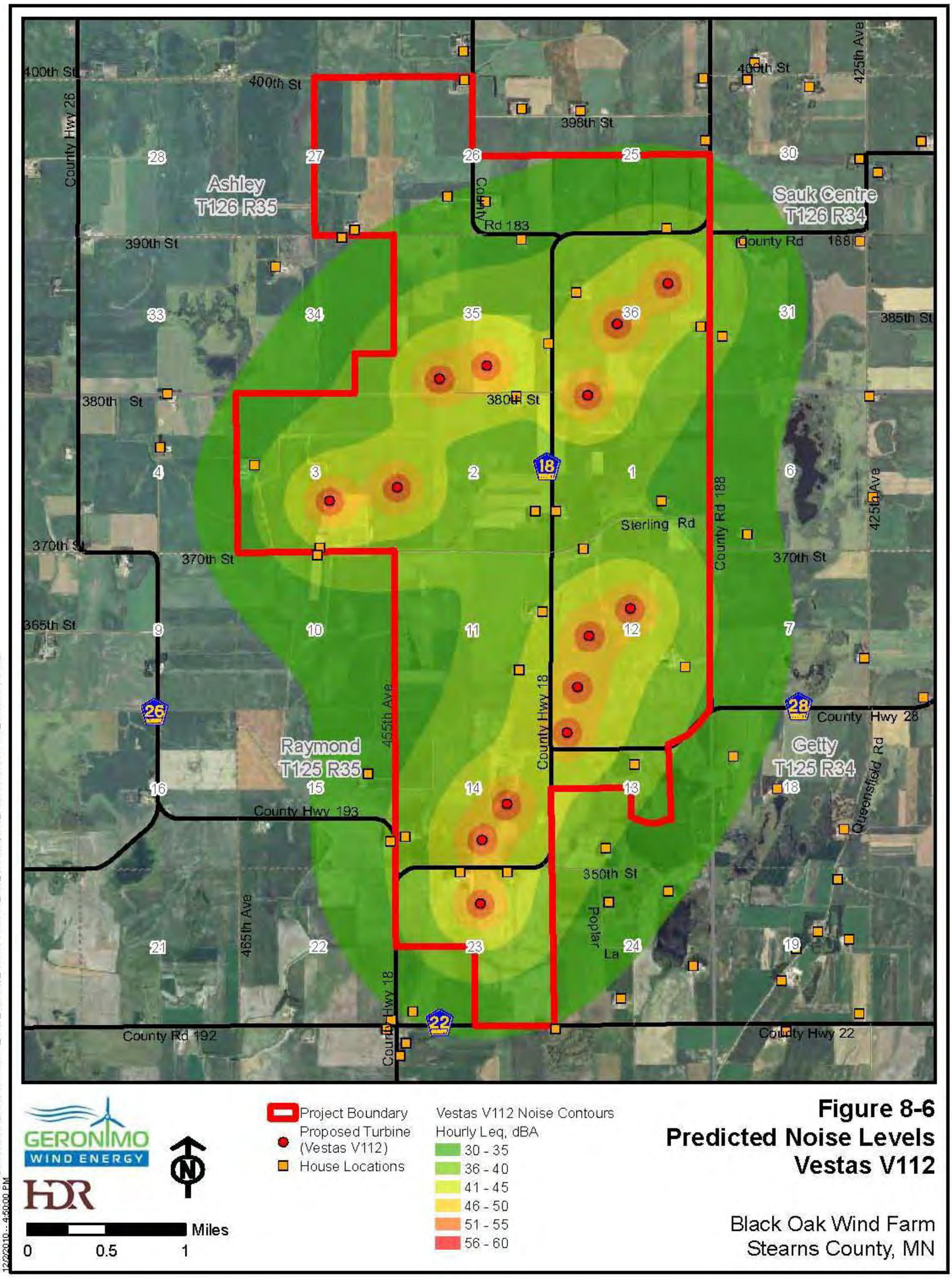
400th St
County Hwy 26
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398th St
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425th Ave
Ashley
T126 R35
County Rd 183
Sauk Centre
T126 R34
390th St
County Rd 188
33
34
35
36
31
385th St
380th St
4
3
2
18
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Sterling Rd
370th St
365th St
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26
28
County Hwy 28
Raymond
T125 R35
455th Ave
County Hwy 18
Getty
T125 R34
16
15
14
13
18
County Hwy 193
Queensfield Rd
350th St
465th Ave
Poplar La
21
22
23
24
19
County Rd 192
County Hwy 22
Project Boundary
Proposed Turbine (Vestas V112)
House Locations
Vestas V112 Noise Contours
Hourly Leq, dBA
30 - 35
36 - 40
41 - 45
46 - 50
51 - 55
56 - 60
GERONIMO WIND ENERGY
HDR
N
Miles
0
0.5
1
Figure 8-6
Predicted Noise Levels
Vestas V112
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISProj\Geronimo\1113816_Black_Oak\map_docs\mxd\LW\ECS_Site_PermitFig8-06_PredictedNoiseLevels_VestasV112.mxd)
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Typical Crop Field

345 kV Transmission Line
and Typical Crop Fields

345 kV Transmission Line

Map Document: (\\mspe-gis-file\GISProj\Geronimo\1113816_Black_Oak\map_docs\mxd\LWECS_Site_Permit\Fig8-07_TypicalLandscape.mxd)
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Figure 8-7
Typical Landscape within Project Area

Black Oak Wind Farm
Stearns County, MN

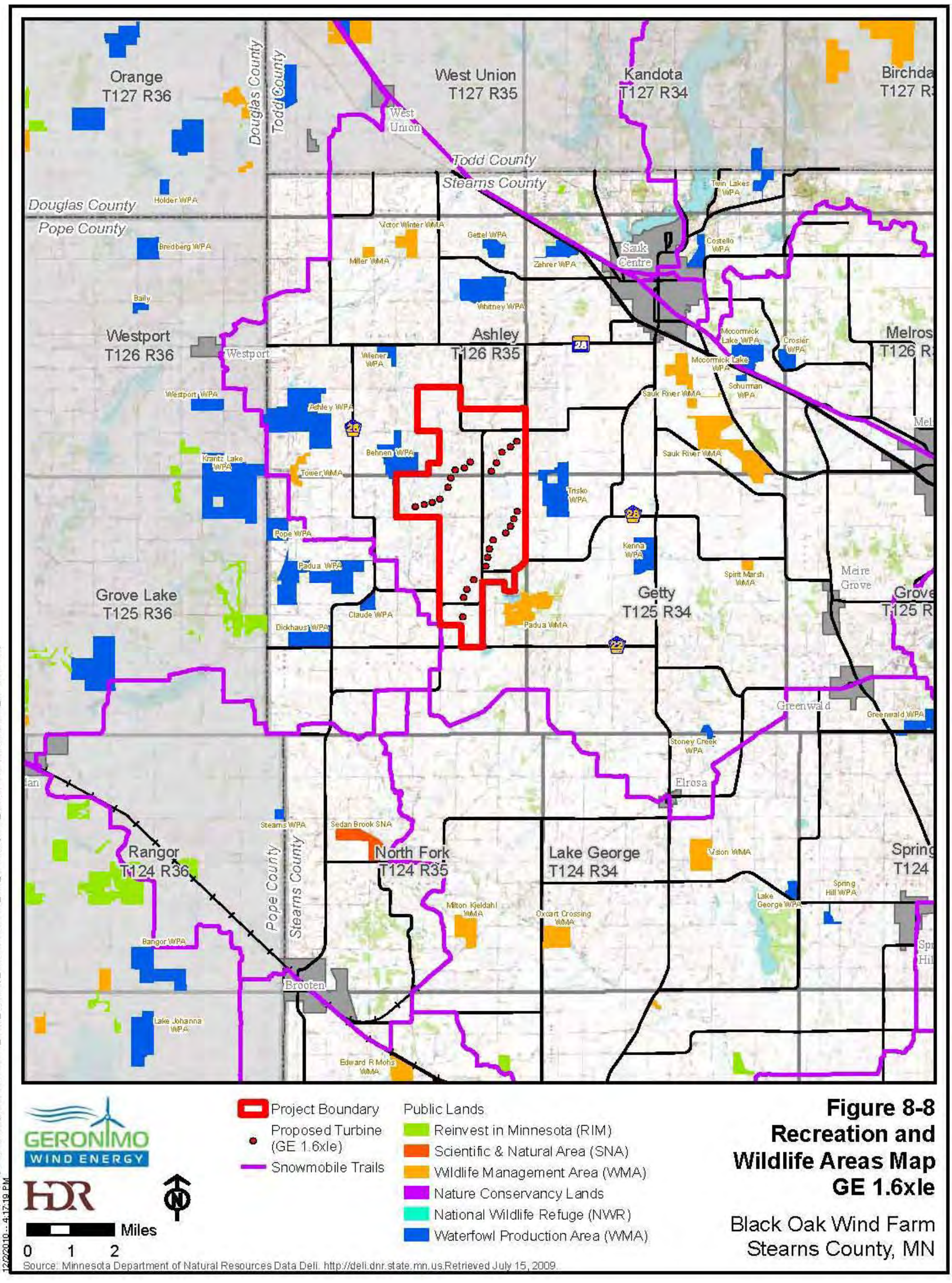
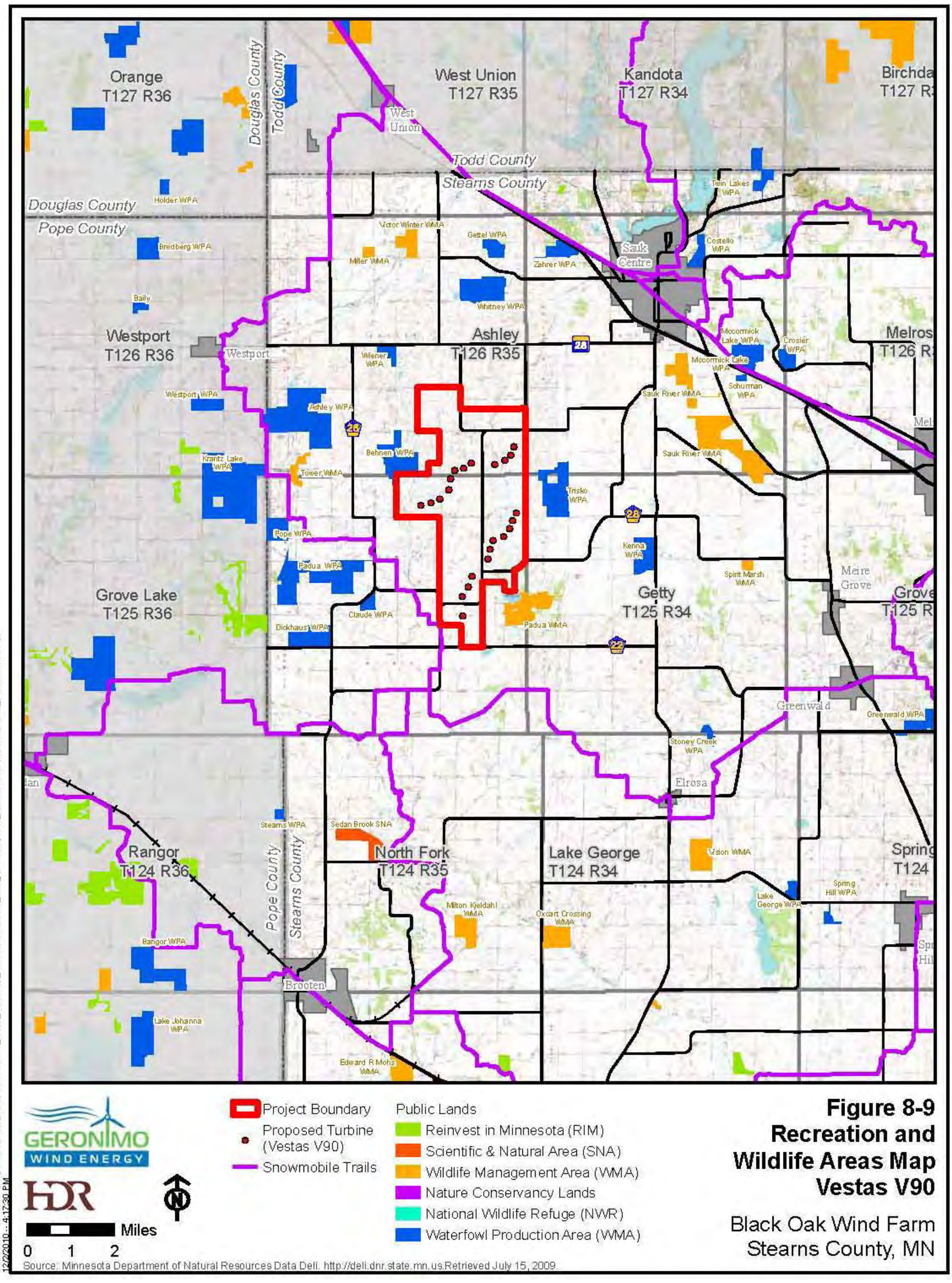


Figure 8-8
Recreation and Wildlife Areas Map
GE 1.6xle

Black Oak Wind Farm
Stearns County, MN


Orange
T127 R36
West Union
T127 R35
Kandota
T127 R34
Birchda
T127 R
Douglas County
Todd County
Stearns County
Pope County
West Union
Holder WPA
Twin Lakes WPA
Victor Winter WMA
Gettel WPA
Costello WPA
Bredberg WPA
Miller WMA
Zehrer WPA
Sauk Centre
Baily
Whitney WPA
Westport
T126 R36
Ashley
T126 R35
Melros
T126 R
Westport
Wiener WPA
Mccormick Lake WPA
Crosier WPA
Mccormick Lake WPA
Schurman WPA
Sauk River WMA
Westport WPA
Ashley WPA
Krantz Lake WPA
Tower WMA
Behnen WPA
Sauk River WMA
Trisko WPA
Pope WPA
Kenna WPA
Padua WPA
Spirit Marsh WMA
Meire Grove
Grove Lake
T125 R36
Getty
T125 R34
Claude WPA
Dickhaus WPA
Padua WMA
Greenwald
Greenwald WPA
Stoney Creek WPA
Elrosa
Steams WPA
Sedan Brook SNA
Rangor
T124 R36
North Fork
T124 R35
Lake George
T124 R34
Vision WMA
Spring
T124
Spring Hill WPA
Lake George WPA
Milton Kjeldahl WMA
Oxcart Crossing WMA
Bangor WPA
Brooten
Lake Johanna WPA
Edward R Mohs WMA
Project Boundary
Proposed Turbine (Vestas V90)
Snowmobile Trails
Public Lands
Reinvest in Minnesota (RIM)
Scientific & Natural Area (SNA)
Wildlife Management Area (WMA)
Nature Conservancy Lands
National Wildlife Refuge (NWR)
Waterfowl Production Area (WMA)
GERONIMO WIND ENERGY
HDR
N
Miles
0 1 2
Source: Minnesota Department of Natural Resources Data Deli. http://deli.dnr.state.mn.us.Retrieved July 15, 2009.
Figure 8-9
Recreation and Wildlife Areas Map
Vestas V90
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISProj\Geronimo\1138816_Black_Oak\map_docs\mxd\LWECS_Site_PermitFig8-09_RecreationandWildlifeAreas_Vestas V90.mxd)
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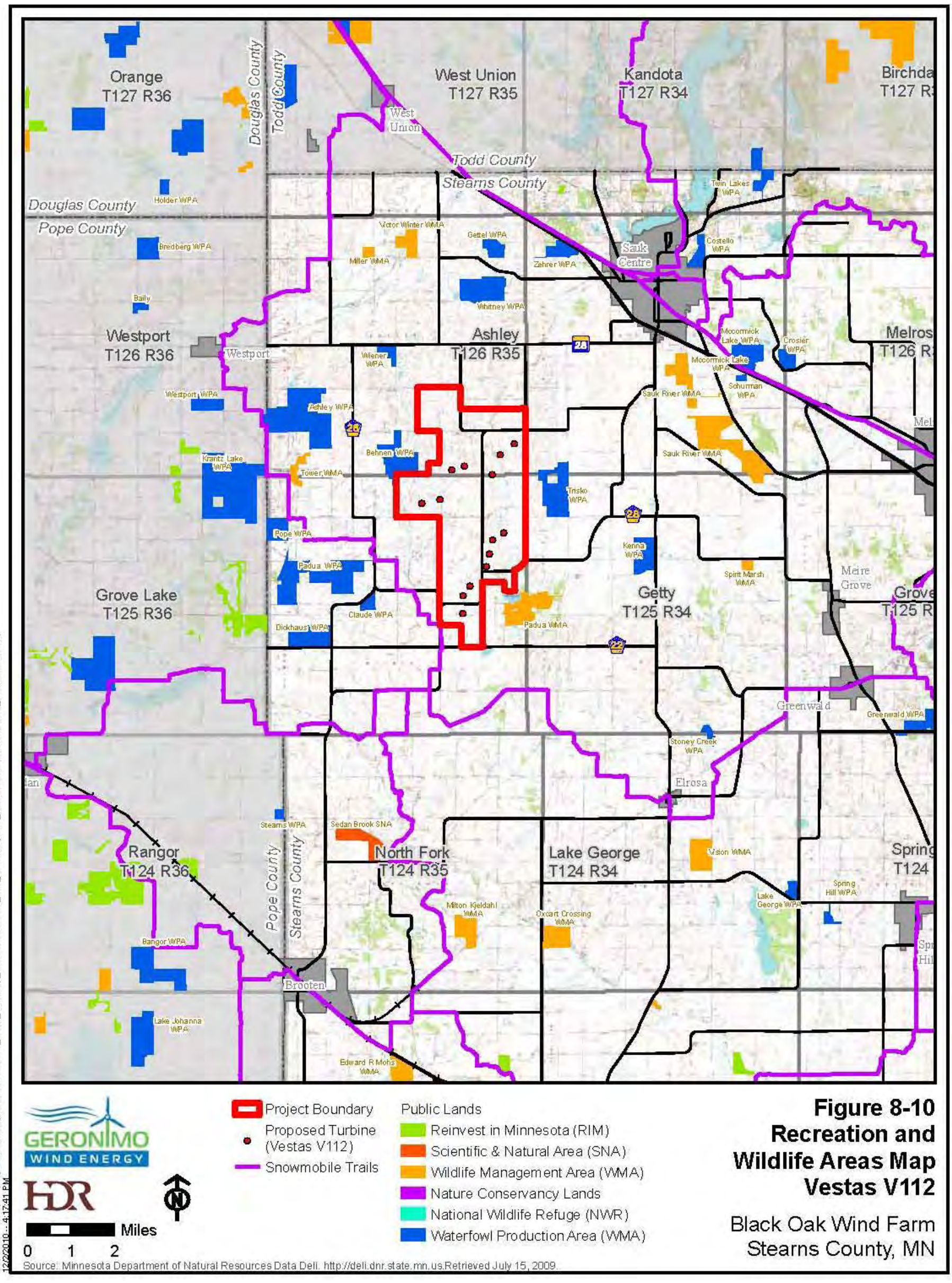
Orange
T127 R36
West Union
T127 R35
Kandota
T127 R34
Birchda
T127 R
Douglas County
Todd County
Stearns County
Pope County
West Union
Holder WPA
Twin Lakes WPA
Victor Winter WMA
Gettel WPA
Costello WPA
Bredberg WPA
Miller WMA
Zehrer WPA
Sauk Centre
Baily
Whitney WPA
Westport
T126 R36
Ashley
T126 R35
Melros
T126 R
Westport
Wiener WPA
Mccormick Lake WPA
Crosier WPA
Mccormick Lake
Schurman WPA
Sauk River WMA
Westport WPA
Ashley WPA
Krantz Lake WPA
Tower WMA
Behnen WPA
Trisko WPA
Sauk River WMA
Pope WPA
Kenna WPA
Padua WPA
Spirit Marsh WMA
Meire Grove
Grove Lake
T125 R36
Getty
T125 R34
Claude WPA
Dickhaus WPA
Padua WMA
Greenwald
Greenwald WPA
Stoney Creek WPA
Elrosa
Steams WPA
Sedan Brook SNA
Rangor
T124 R36
North Fork
T124 R35
Lake George
T124 R34
Vision WMA
Spring
T124
Spring Hill WPA
Lake George WPA
Milton Kjeldahl WMA
Oxcart Crossing WMA
Bangor WPA
Brooten
Lake Johanna WPA
Edward R Mohs WMA
Project Boundary
Proposed Turbine (Vestas V112)
Snowmobile Trails
Public Lands
Reinvest in Minnesota (RIM)
Scientific & Natural Area (SNA)
Wildlife Management Area (WMA)
Nature Conservancy Lands
National Wildlife Refuge (NWR)
Waterfowl Production Area (WMA)
GERONIMO WIND ENERGY
HDR
N
Miles
0 1 2
Source: Minnesota Department of Natural Resources Data Deli. http://deli.dnr.state.mn.us.Retrieved July 15, 2009.
Figure 8-10
Recreation and Wildlife Areas Map
Vestas V112
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISProj\Geronimo\1138816_Black_Oak\map_docs\mxd\LWECS_Site_PermitFig8-10_RecreationandWildlifeAreas_VestasV112.mxd)
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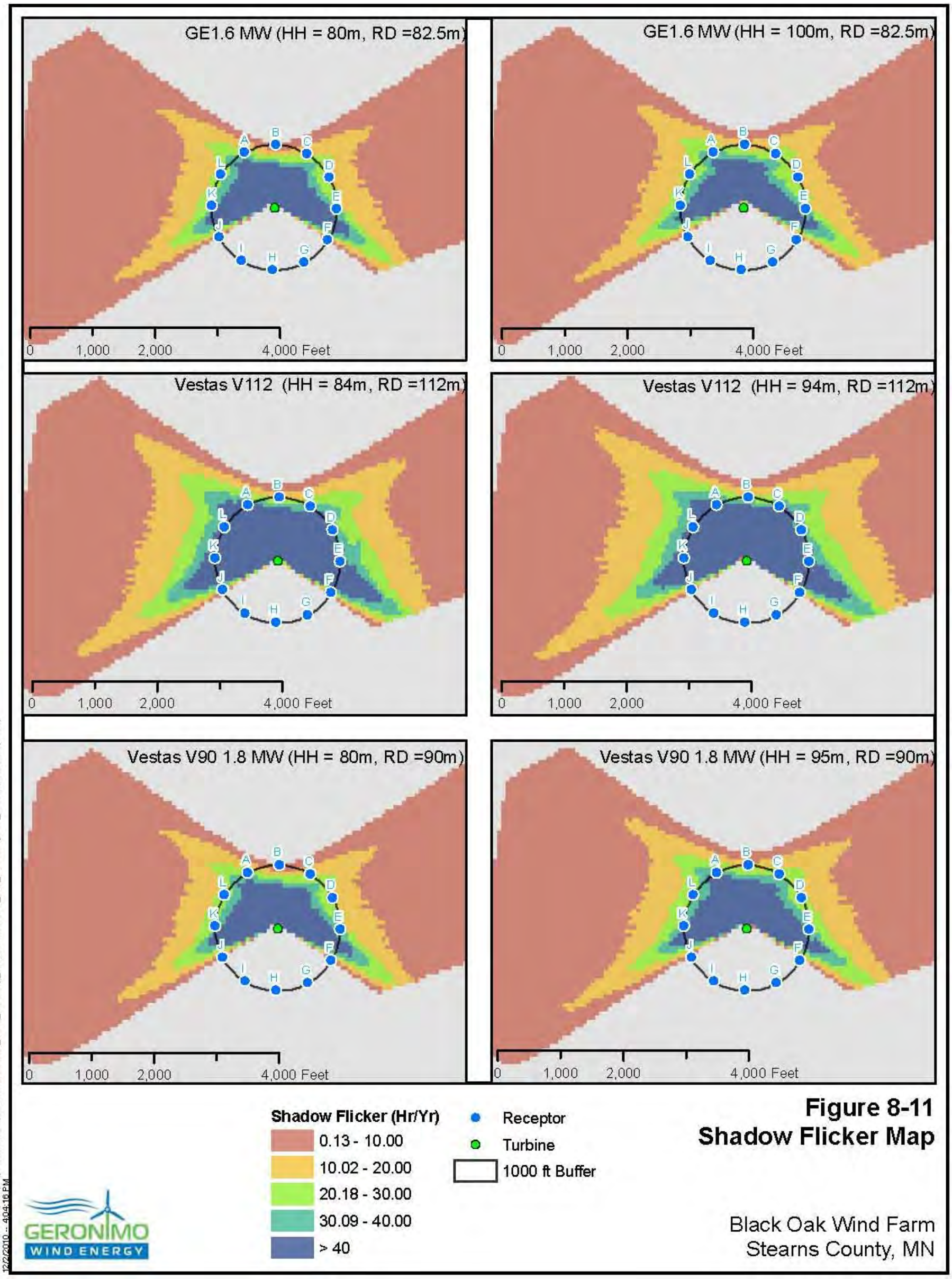
GE1.6 MW (HH = 80m, RD =82.5m)
GE1.6 MW (HH = 100m, RD =82.5m)
Vestas V112 (HH = 84m, RD =112m)
Vestas V112 (HH = 94m, RD =112m)
Vestas V90 1.8 MW (HH = 80m, RD =90m)
Vestas V90 1.8 MW (HH = 95m, RD =90m)
A
B
C
D
E
F
G
H
I
J
K
L
0
1,000
2,000
4,000 Feet
Shadow Flicker (Hr/Yr)
0.13 - 10.00
10.02 - 20.00
20.18 - 30.00
30.09 - 40.00
> 40
Receptor
Turbine
1000 ft Buffer
GERONIMO
WIND ENERGY
Figure 8-11
Shadow Flicker Map
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISProj\Geronimo\1113816_Black_Oak\map_docs\mxd\LWECS_Site_Permit\Fig6-11_ShadowFlickerMap.mxd)
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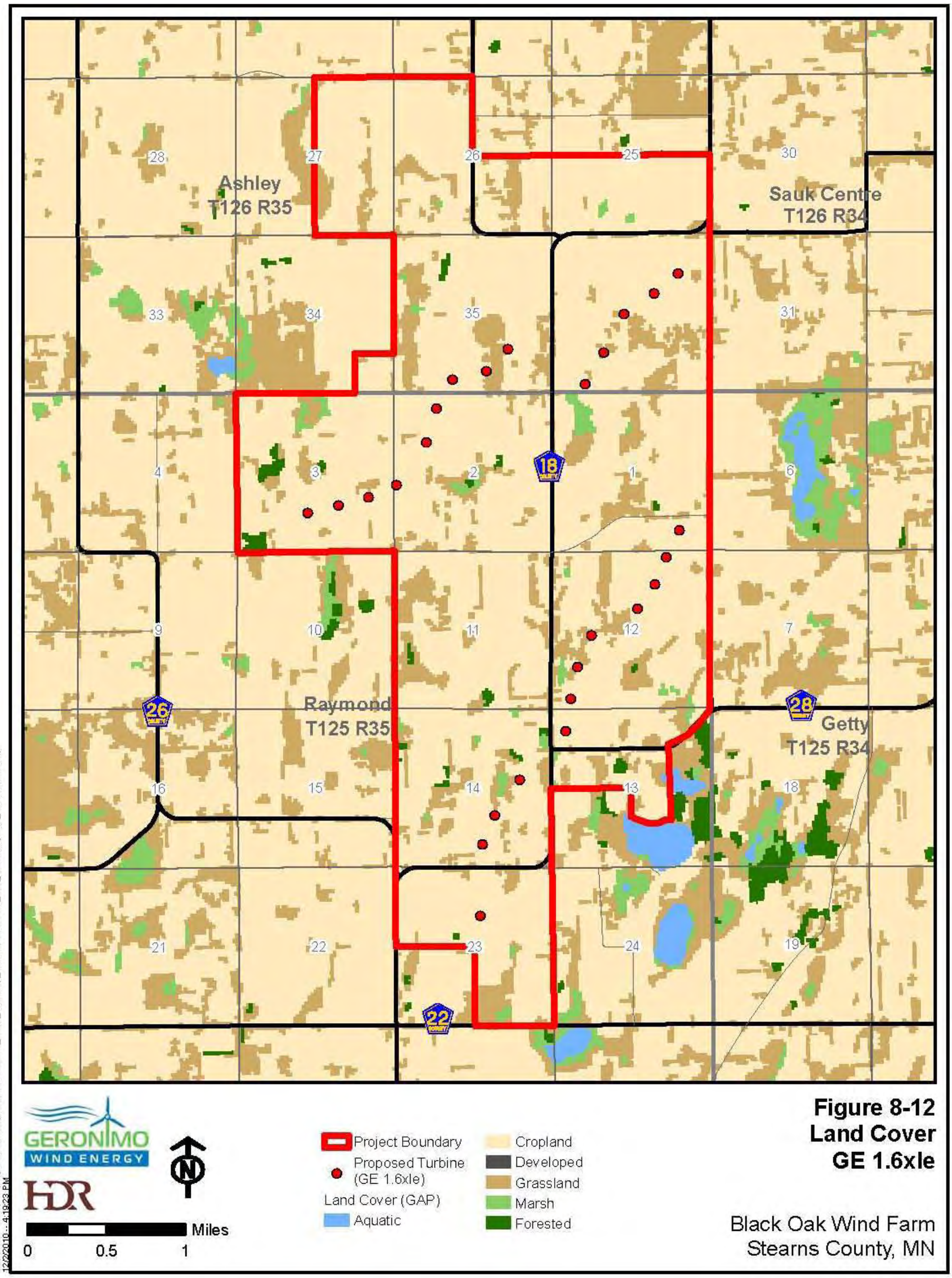
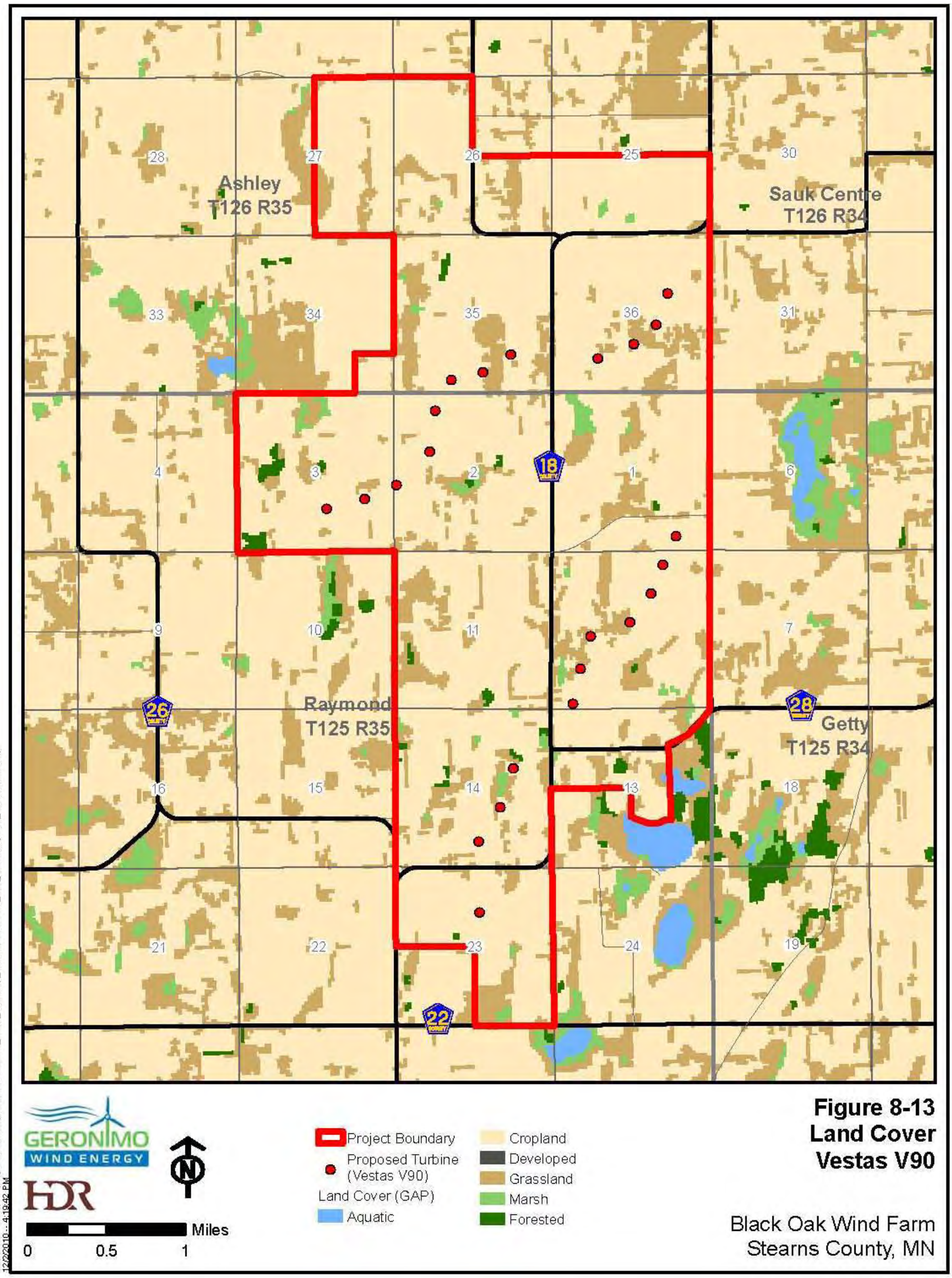


Figure 8-12
Land Cover
GE 1.6xle

Black Oak Wind Farm
Stearns County, MN


Ashley
T126 R35
Sauk Centre
T126 R34
Raymond
T125 R35
Getty
T125 R34
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33
34
35
36
31
4
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16
15
14
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18
21
22
23
24
19
18
26
28
22
Project Boundary
Proposed Turbine
(Vestas V90)
Land Cover (GAP)
Aquatic
Cropland
Developed
Grassland
Marsh
Forested
GERONIMO
WIND ENERGY
HDR
N
Miles
0
0.5
1
Figure 8-13
Land Cover
Vestas V90
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISPro)\Geronimo\113816_Black_Oak\map_docs\mxd\LW\EC S_Site_PermitFig8-13_LandCover.mxd)
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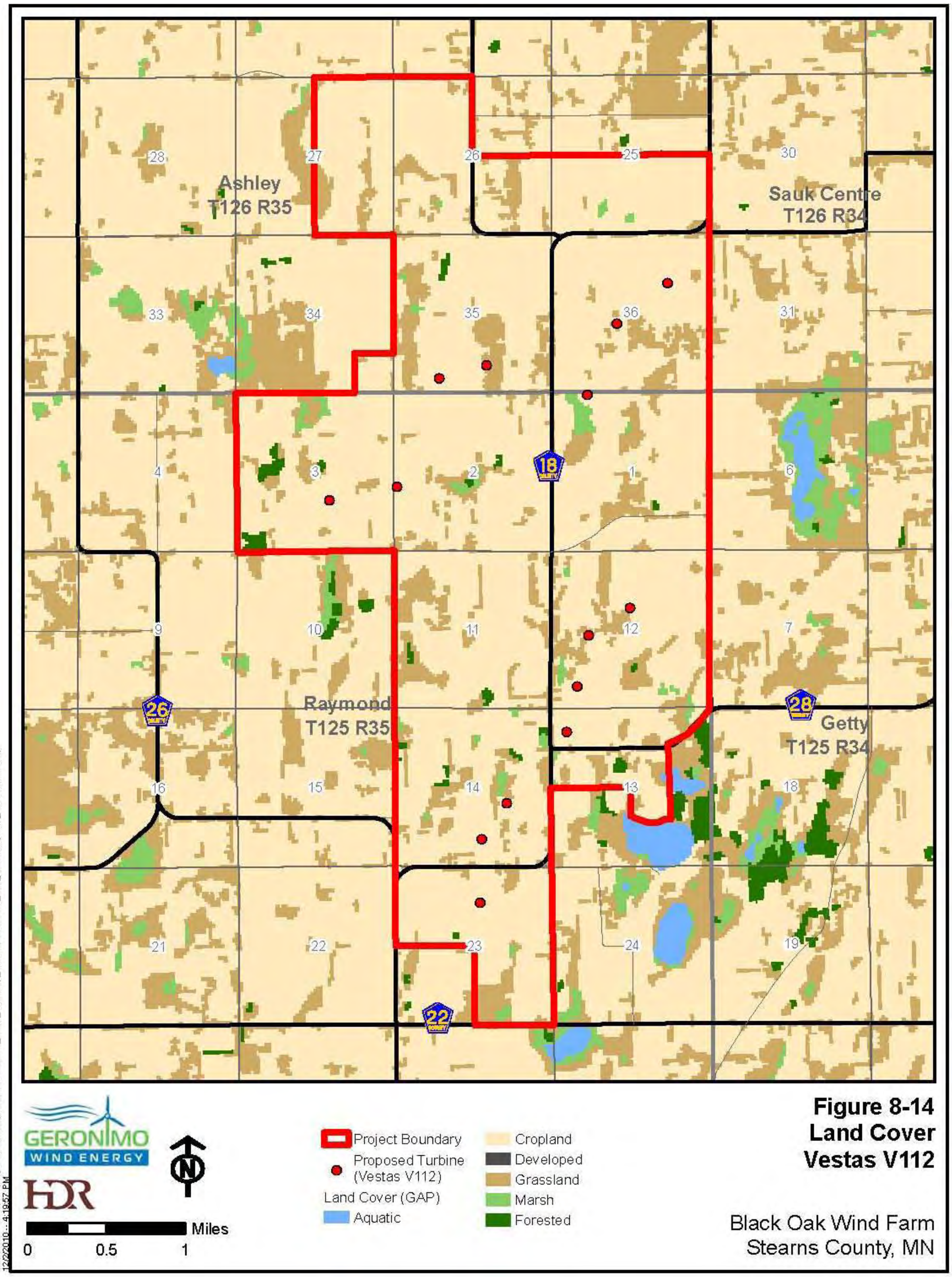
Ashley
T126 R35
Sauk Centre
T126 R34
Raymond
T125 R35
Getty
T125 R34
28
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34
35
36
31
4
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26
28
22
Project Boundary
Proposed Turbine
(Vestas V112)
Land Cover (GAP)
Aquatic
Cropland
Developed
Grassland
Marsh
Forested
Miles
0
0.5
1
GERONIMO
WIND ENERGY
HDR
Figure 8-14
Land Cover
Vestas V112
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISPro\Geronimo\113816_Black_Oak\map_docs\mxd\LW\EC S_Site_PermitFig8-14_LandCover.mxd)
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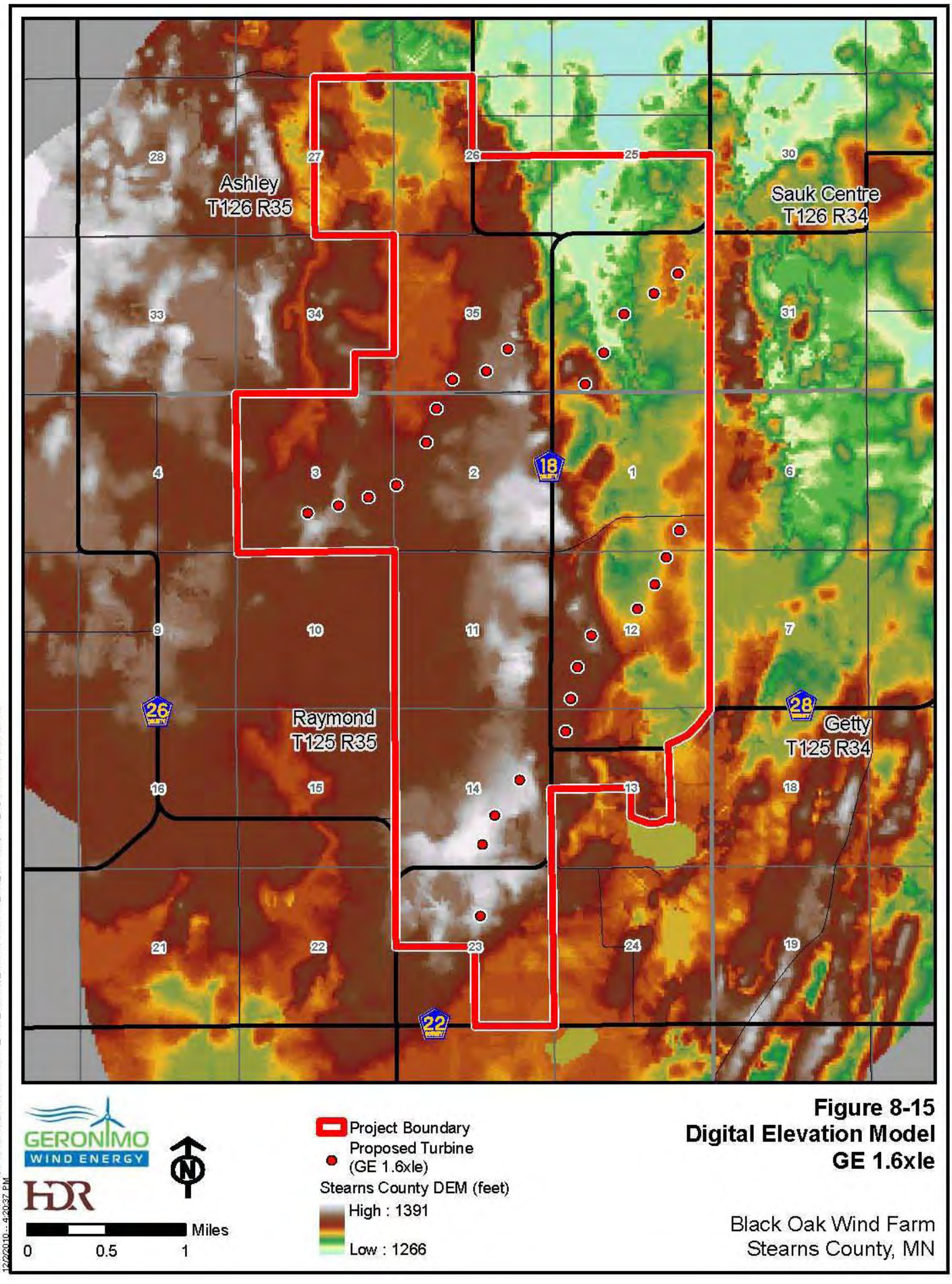
Ashley
T126 R35
Sauk Centre
T126 R34
Raymond
T125 R35
Getty
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19
18
26
28
22
GERONIMO
WIND ENERGY
HDR
N
Miles
0
0.5
1
Project Boundary
Proposed Turbine
(GE 1.6xle)
Stearns County DEM (feet)
High : 1391
Low : 1266
Figure 8-15
Digital Elevation Model
GE 1.6xle
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISProj\Geronimo\1113816_Black_Oak\map_docs\mxd\LWECS_Site_PermitFig8-15_DigitalElevationModel.mxd)
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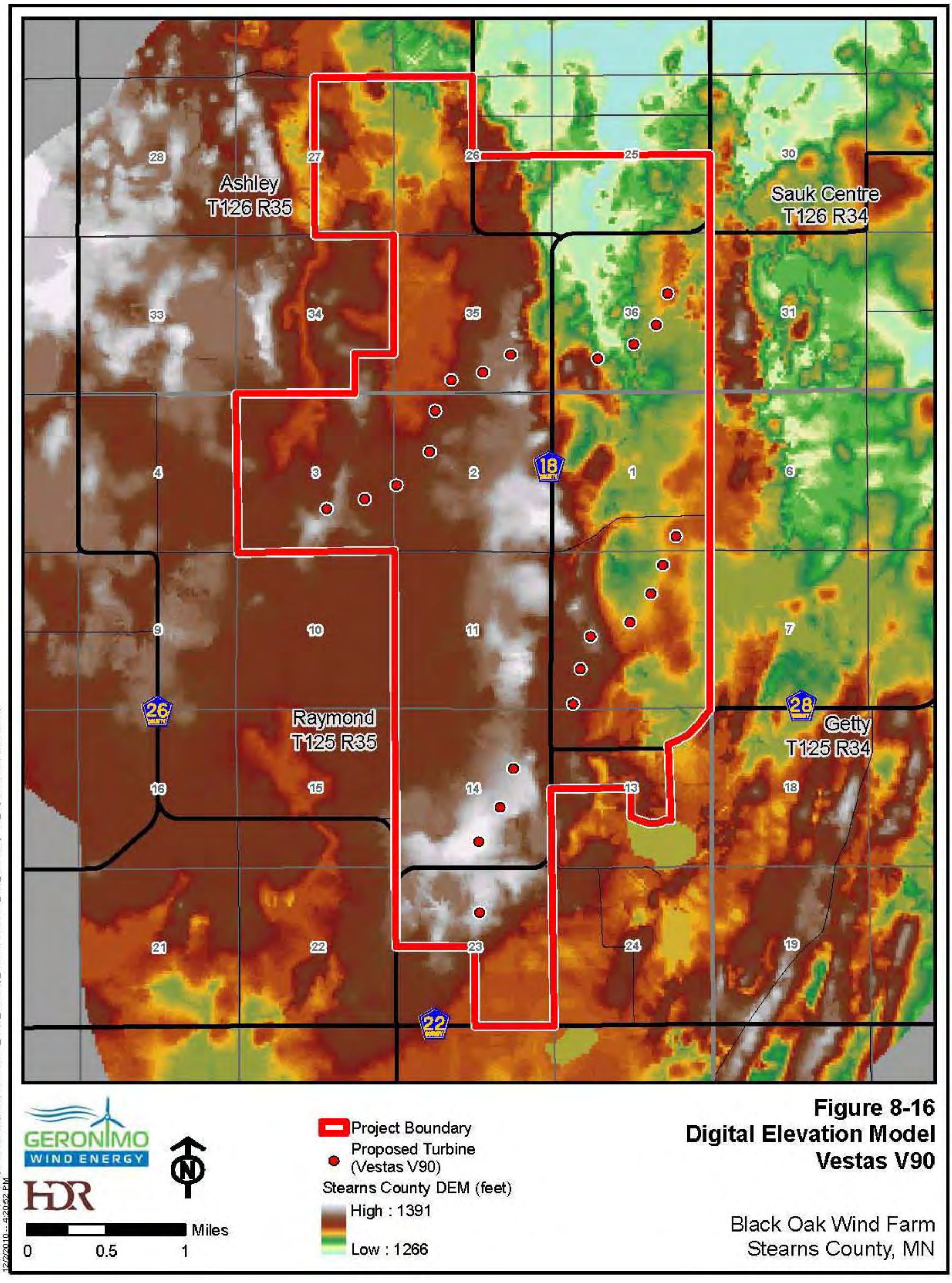
Ashley
T126 R35
Sauk Centre
T126 R34
Raymond
T125 R35
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10
11
7
16
15
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18
26
28
22
GERONIMO
WIND ENERGY
HDR
N
Miles
0
0.5
1
Project Boundary
Proposed Turbine
(Vestas V90)
Stearns County DEM (feet)
High : 1391
Low : 1266
Figure 8-16
Digital Elevation Model
Vestas V90
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISProj\Geronimo\1113816_Black_Oak\map_docs\mxd\JJ\ECS_Site_PermitFig8-16_DigitalElevationModel.mxd)
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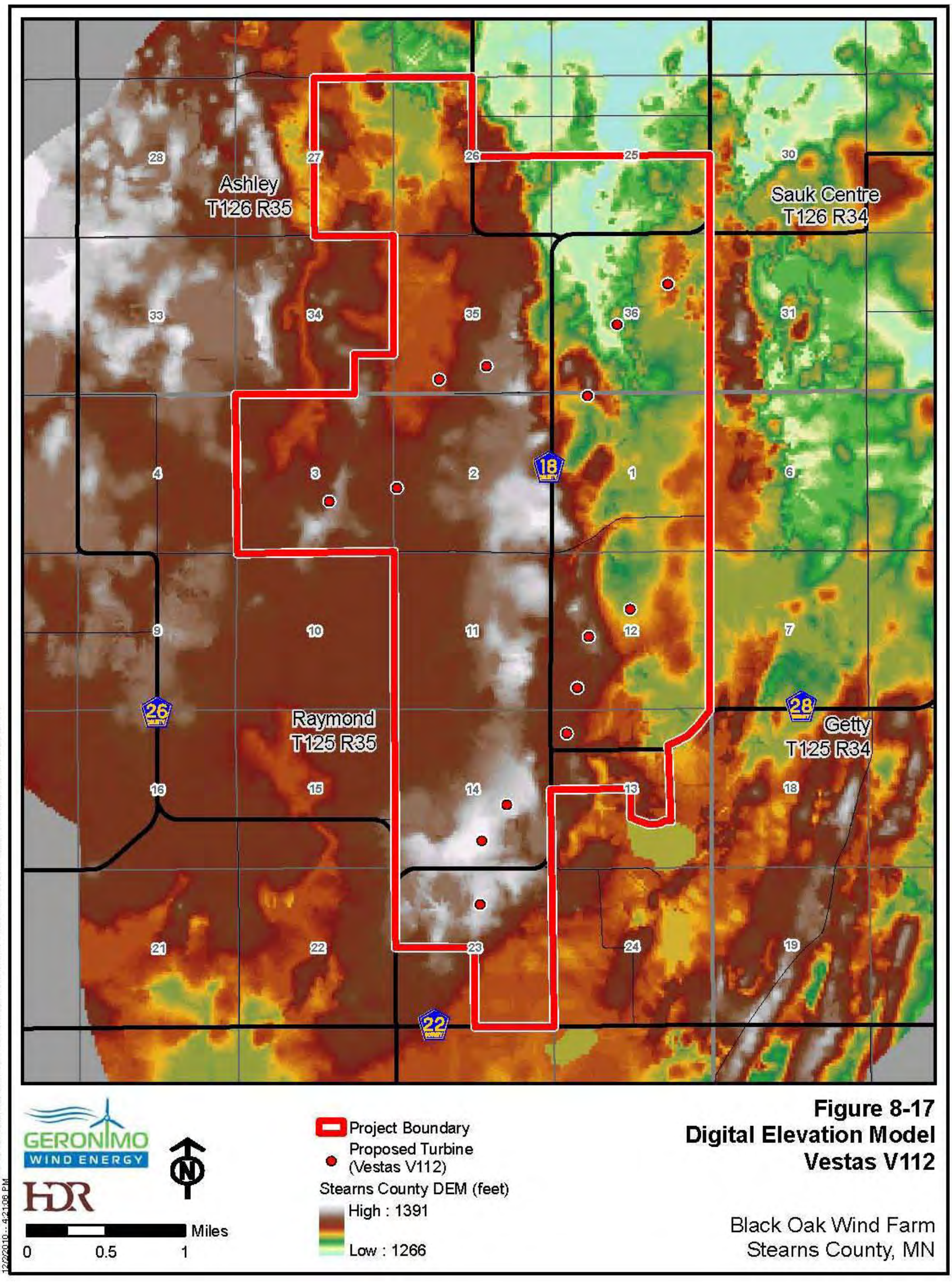
Ashley
T126 R35
Sauk Centre
T126 R34
Raymond
T125 R35
Getty
T125 R34
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36
31
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1
6
9
10
11
12
7
26
28
16
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14
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18
21
22
23
24
19
22
GERONIMO
WIND ENERGY
HDR
N
Miles
0
0.5
1
Project Boundary
Proposed Turbine
(Vestas V112)
Stearns County DEM (feet)
High : 1391
Low : 1266
Figure 8-17
Digital Elevation Model
Vestas V112
Black Oak Wind Farm
Stearns County, MN
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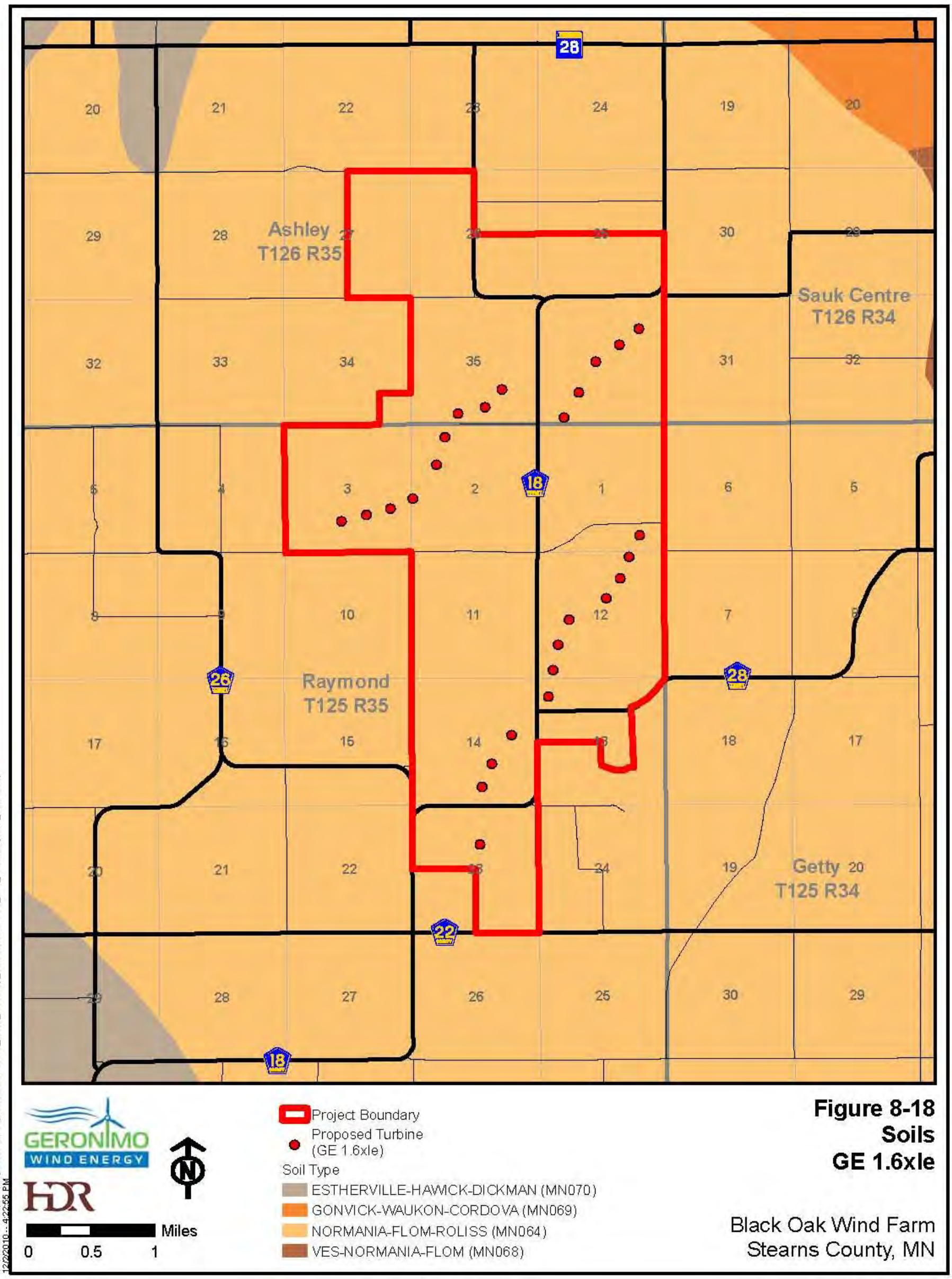
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Ashley
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Sauk Centre
T126 R34
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Raymond
T125 R35
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Getty
T125 R34
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Project Boundary
Proposed Turbine
(GE 1.6xle)
Soil Type
ESTHERVILLE-HAWICK-DICKMAN (MN070)
GONVICK-WAUKON-CORDOVA (MN069)
NORMANIA-FLOM-ROLISS (MN064)
VES-NORMANIA-FLOM (MN068)
GERONIMO
WIND ENERGY
HDR
N
Miles
0
0.5
1
Figure 8-18
Soils
GE 1.6xle
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISProj\Geronimo\113816_Black_Oak\map_docs\mxd\LW\ECS_Site_PermitFig8-18_Soils.mxd)
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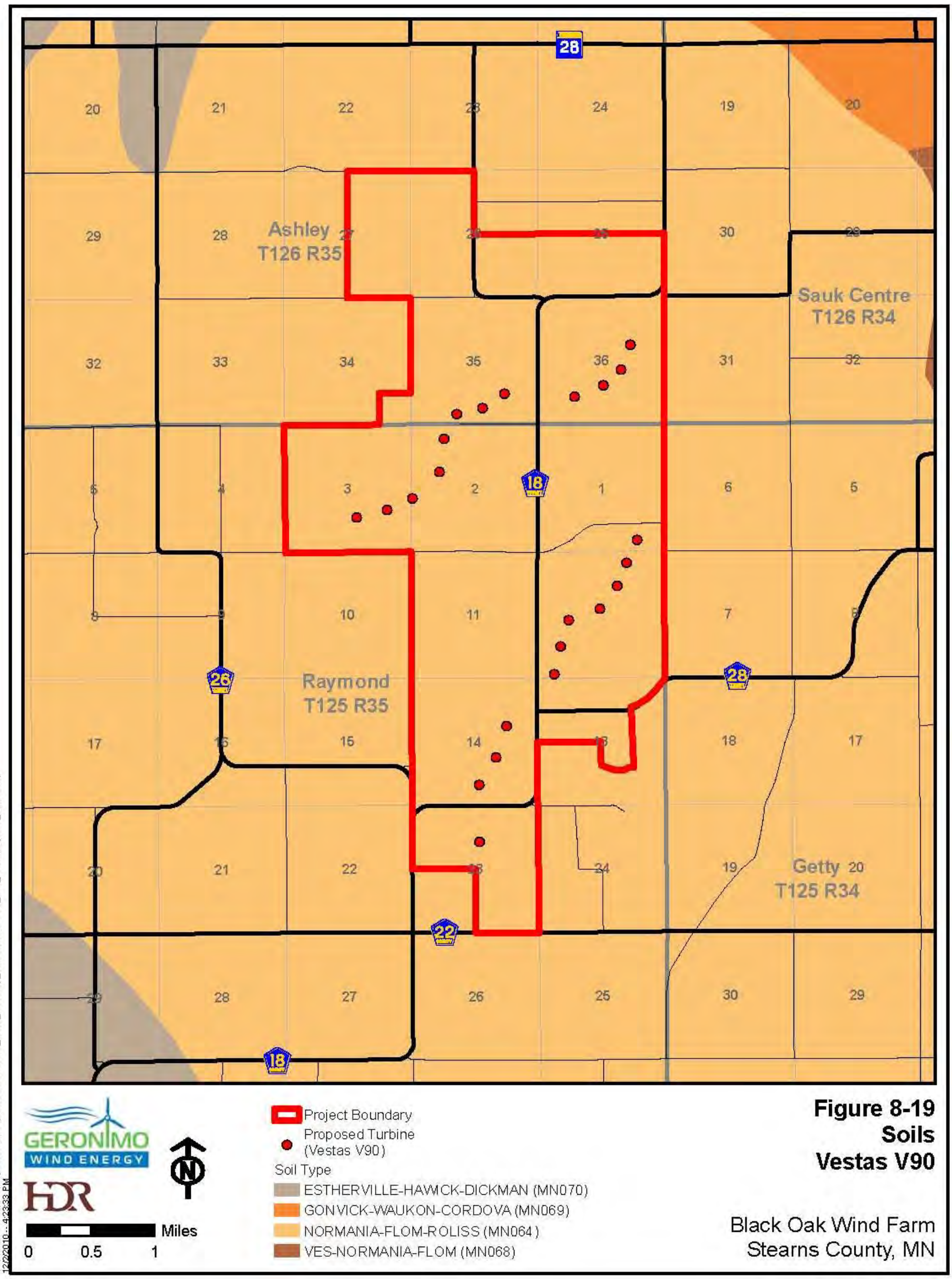
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Ashley
T126 R35
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Sauk Centre
T126 R34
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7
8
26
Raymond
T125 R35
28
17
16
15
14
13
18
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24
19
Getty
T125 R34
20
22
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18
Project Boundary
Proposed Turbine
(Vestas V90)
Soil Type
ESTHERVILLE-HAWICK-DICKMAN (MN070)
GONVICK-WAUKON-CORDOVA (MN069)
NORMANIA-FLOM-ROLISS (MN064)
VES-NORMANIA-FLOM (MN068)
GERONIMO
WIND ENERGY
HDR
N
Miles
0
0.5
1
Figure 8-19
Soils
Vestas V90
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISProj\Geronimo\113816_Black_Oak\map_docs\mxd\JW\ECS_Site_PermitFig8-19_Soils.mxd)
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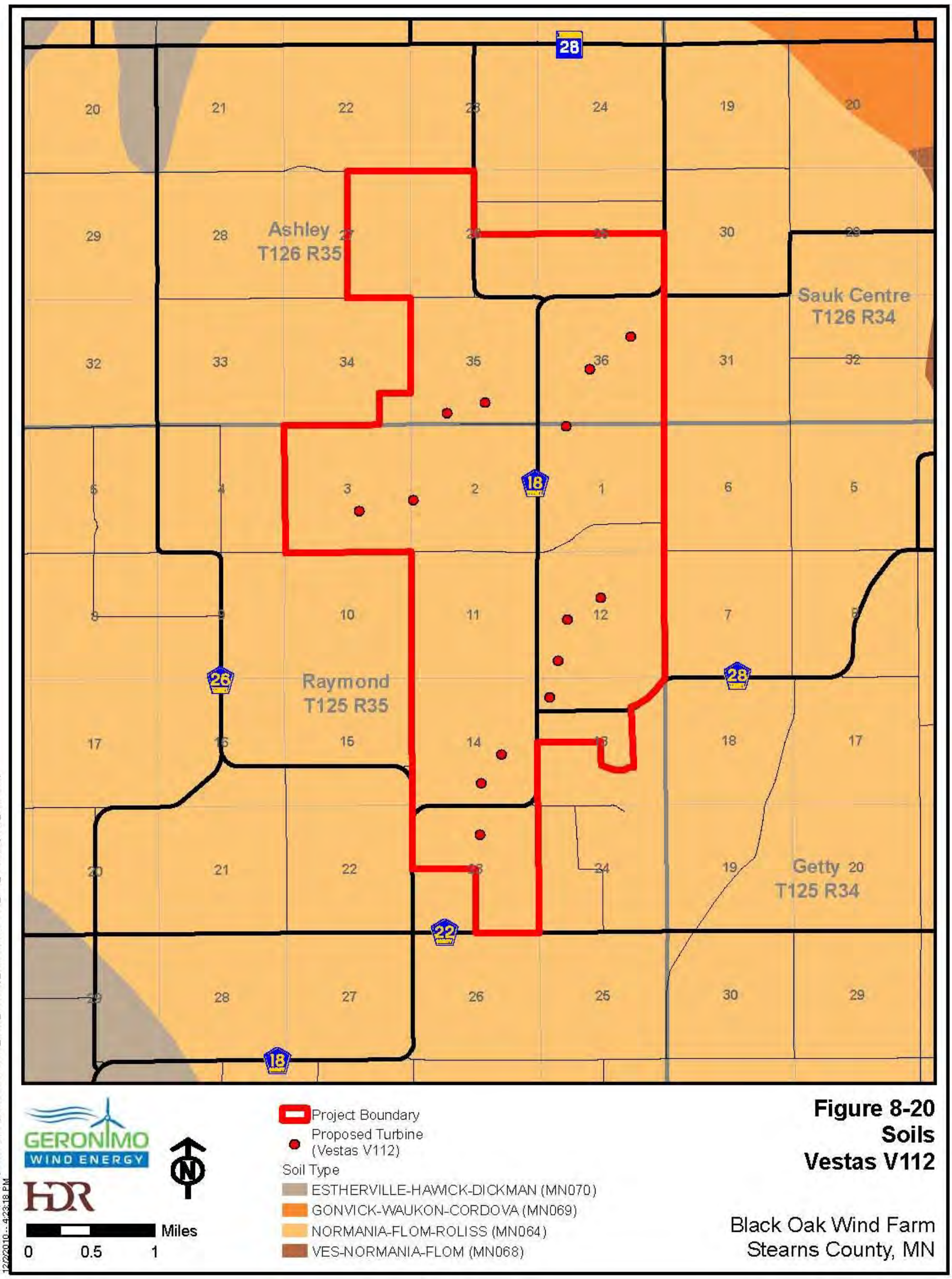
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Ashley
T126 R35
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Sauk Centre
T126 R34
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12
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Raymond
T125 R35
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Getty
T125 R34
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Project Boundary
Proposed Turbine
(Vestas V112)
Soil Type
ESTHERVILLE-HAWICK-DICKMAN (MN070)
GONVICK-WAUKON-CORDOVA (MN069)
NORMANIA-FLOM-ROLISS (MN064)
VES-NORMANIA-FLOM (MN068)
GERONIMO
WIND ENERGY
HDR
N
Miles
0
0.5
1
Figure 8-20
Soils
Vestas V112
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISProj\Geronimo\113816_Black_Oak\map_docs\mxd\JW\ECS_Site_PermitFig8-20_Soils.mxd)
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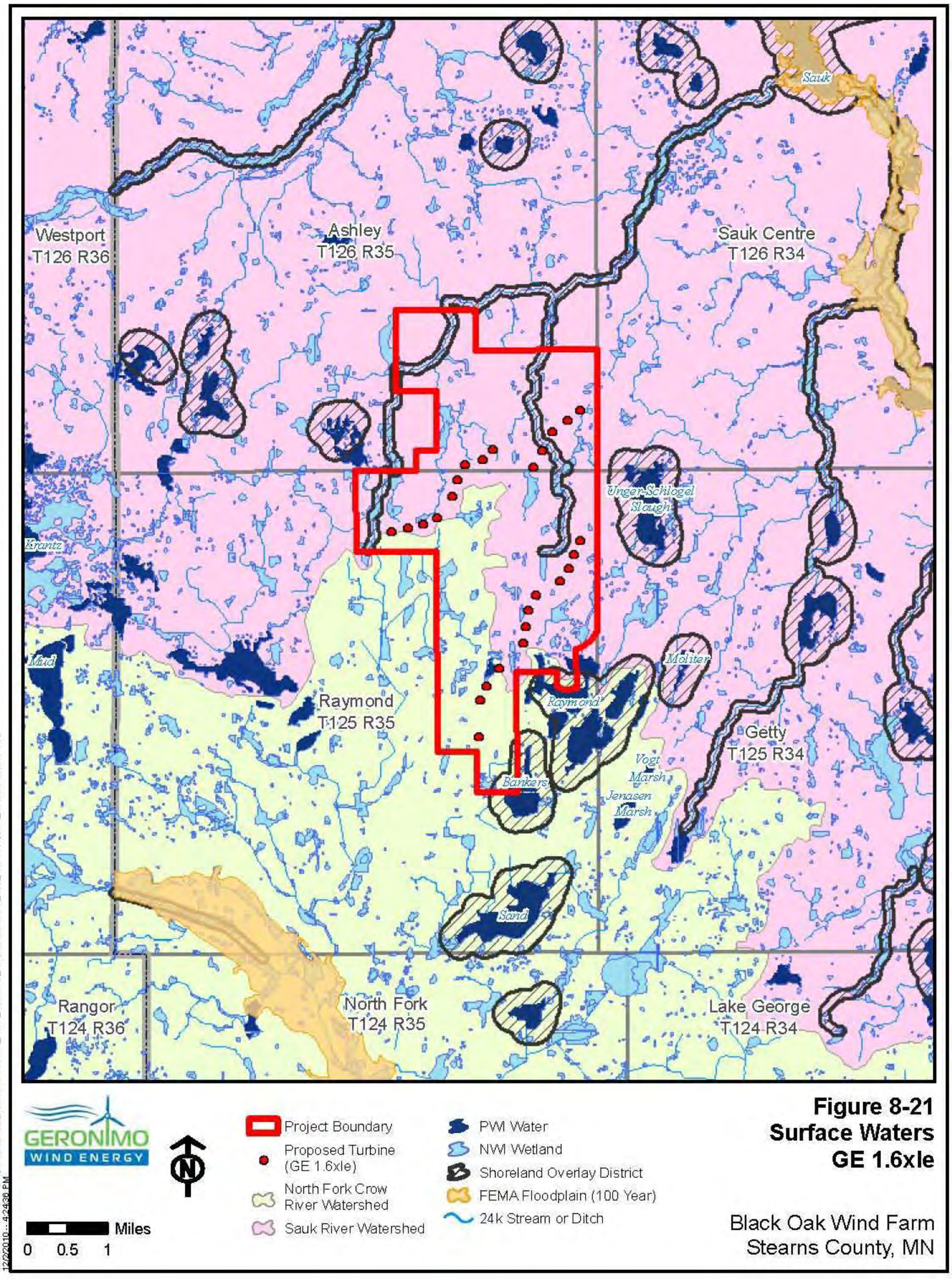
Westport
T126 R36
Ashley
T126 R35
Sauk Centre
T126 R34
Sauk
Unger-Schlogel Slough
Krantz
Mud
Raymond
T125 R35
Raymond
Molter
Getty
T125 R34
Vogt Marsh
Bankers
Jenasen Marsh
Sand
Rangor
T124 R36
North Fork
T124 R35
Lake George
T124 R34
GERONIMO WIND ENERGY
Project Boundary
Proposed Turbine (GE 1.6xle)
North Fork Crow River Watershed
Sauk River Watershed
PWI Water
NWI Wetland
Shoreland Overlay District
FEMA Floodplain (100 Year)
24k Stream or Ditch
Miles
0 0.5 1
Figure 8-21
Surface Waters
GE 1.6xle
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISPro\Geronimo\113816_Black_Oak\map_docs\mxd\LWECS_Site_Permit\Fig8-21_SurfaceWaters.mxd)
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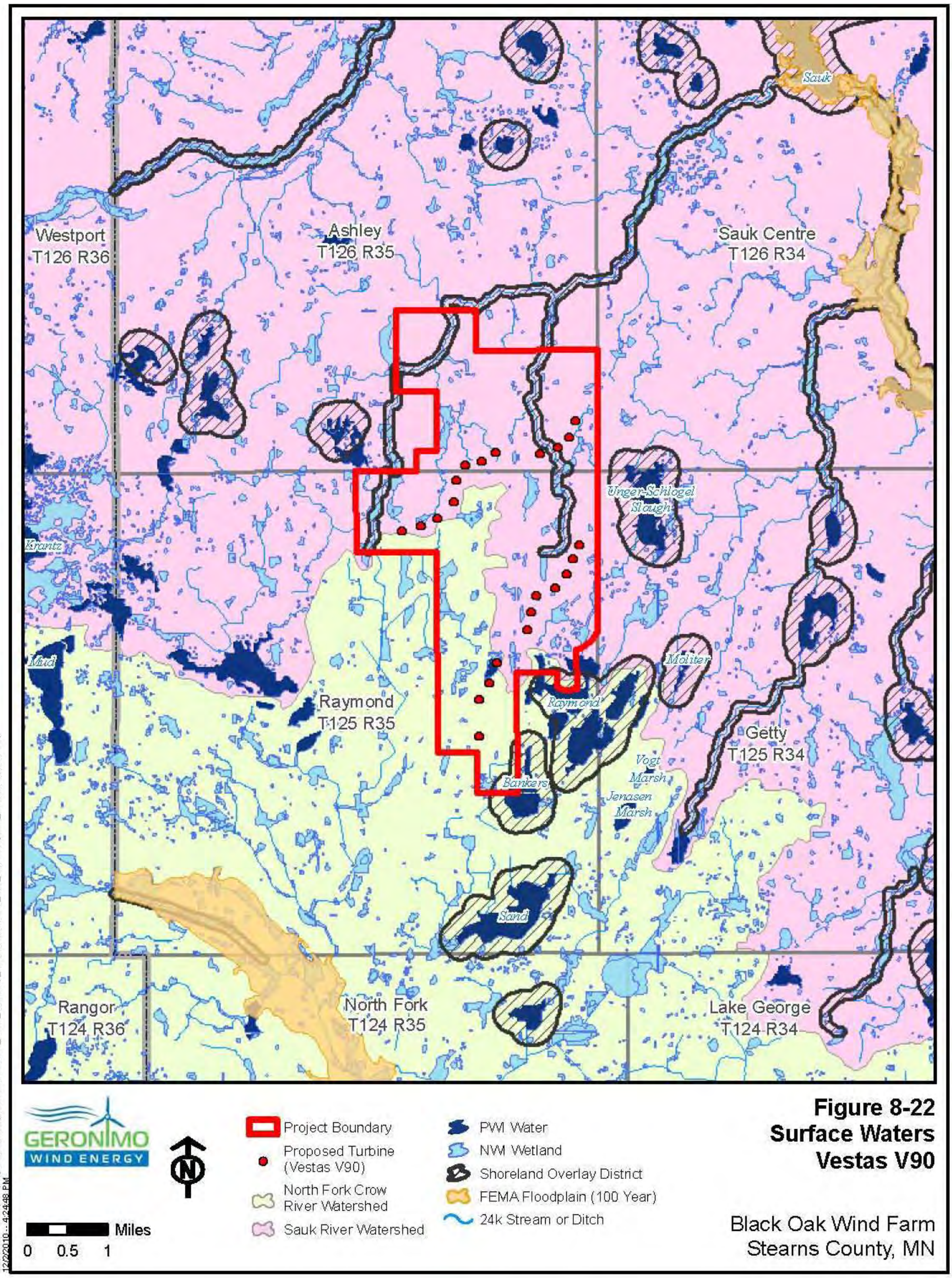
Westport
T126 R36
Ashley
T126 R35
Sauk Centre
T126 R34
Sauk
Unger-Schlogel Slough
Krantz
Mud
Raymond
T125 R35
Raymond
Molter
Getty
T125 R34
Vogt Marsh
Bankers
Jenasen Marsh
Sand
Rangor
T124 R36
North Fork
T124 R35
Lake George
T124 R34
GERONIMO WIND ENERGY
Project Boundary
Proposed Turbine (Vestas V90)
North Fork Crow River Watershed
Sauk River Watershed
PWI Water
NWI Wetland
Shoreland Overlay District
FEMA Floodplain (100 Year)
24k Stream or Ditch
Miles
0 0.5 1
Figure 8-22
Surface Waters
Vestas V90
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISPro\Geronimo\113816_Black_Oak\map_docs\mxd\LWECS_Site_Permit\Fig8-22_SurfaceWaters.mxd)
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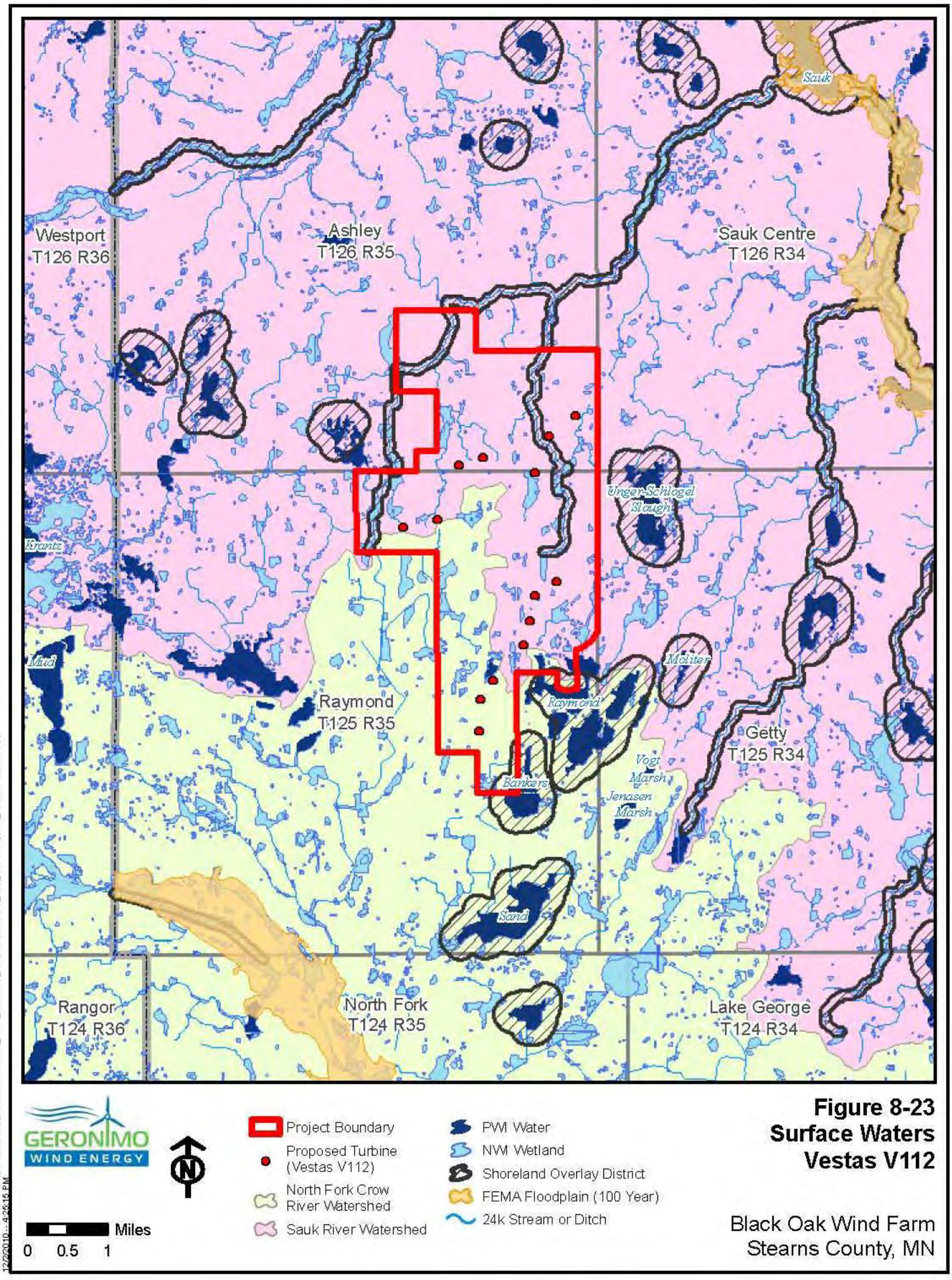
Westport
T126 R36
Ashley
T126 R35
Sauk Centre
T126 R34
Sauk
Unger-Schlogel
Slough
Krantz
Mud
Raymond
T125 R35
Molter
Raymond
Getty
T125 R34
Vogt
Marsh
Bankers
Jenasen
Marsh
Sand
Rangor
T124 R36
North Fork
T124 R35
Lake George
T124 R34
GERONIMO
WIND ENERGY
Miles
0 0.5 1
Project Boundary
Proposed Turbine
(Vestas V112)
North Fork Crow
River Watershed
Sauk River Watershed
PWI Water
NWI Wetland
Shoreland Overlay District
FEMA Floodplain (100 Year)
24k Stream or Ditch
Figure 8-23
Surface Waters
Vestas V112
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mspe-gis-file\GISPro\Geronimo\113816_Black_Oak\map_docs\mxd\LWECS_Site_Permit\Fig8-23_SurfaceWaters.mxd)
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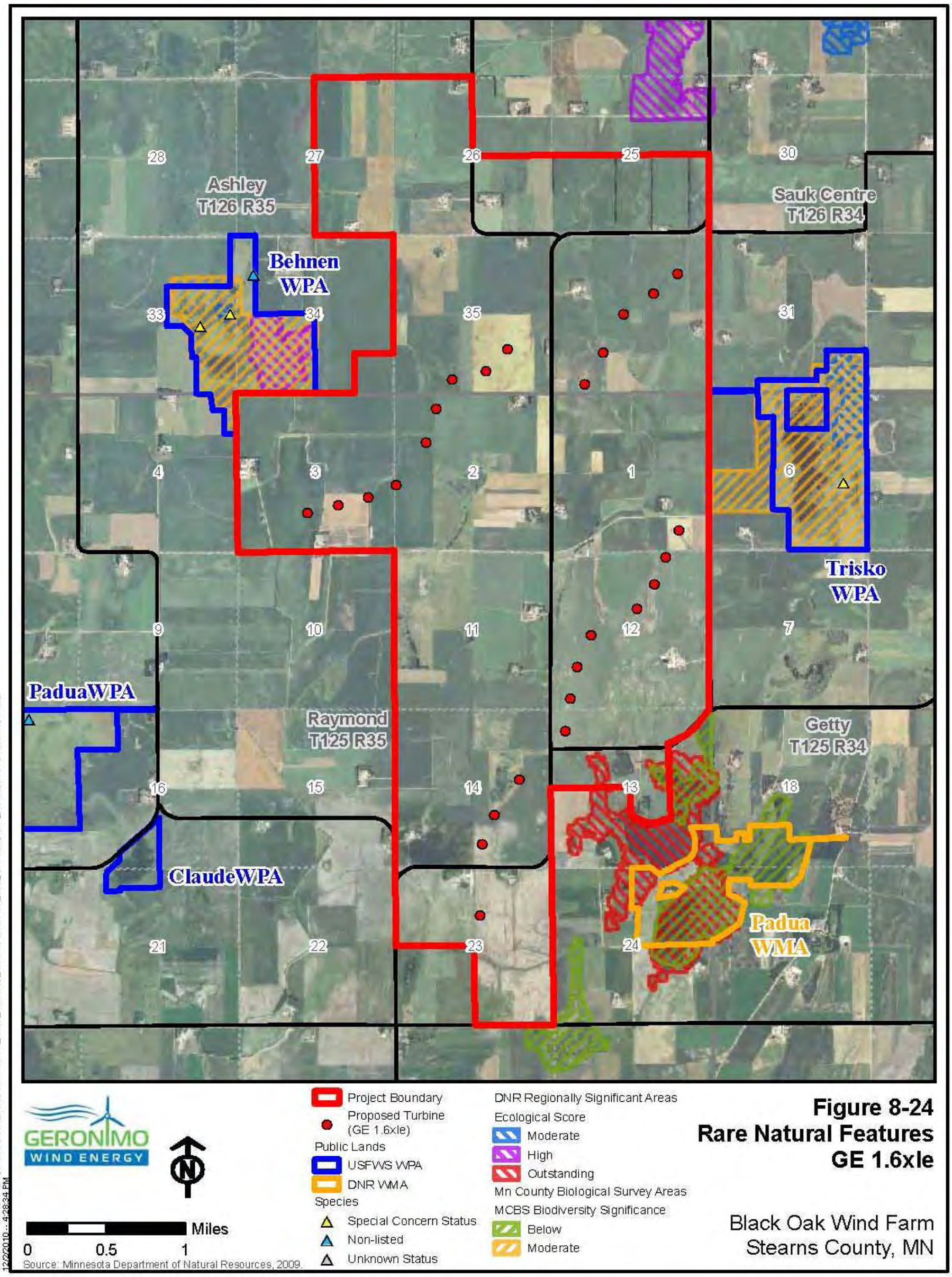
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T126 R34
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Trisko
WPA
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PaduaWPA
Raymond
T125 R35
Getty
T125 R34
16
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ClaudeWPA
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23
24
Padua
WMA
Project Boundary
Proposed Turbine
(GE 1.6xle)
Public Lands
USFWS WPA
DNR WMA
Species
Special Concern Status
Non-listed
Unknown Status
DNR Regionally Significant Areas
Ecological Score
Moderate
High
Outstanding
Mn County Biological Survey Areas
MCBS Biodiversity Significance
Below
Moderate
GERONIMO
WIND ENERGY
N
Miles
0
0.5
1
Source: Minnesota Department of Natural Resources, 2009.
Figure 8-24
Rare Natural Features
GE 1.6xle
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mrpe-gis-file\GISProj\Geronimo\1113816_Black_Oak\map_docs\mxd\LWECS_Site_PermitFig8-24_RareNaturalSpeciesMap.mxd)
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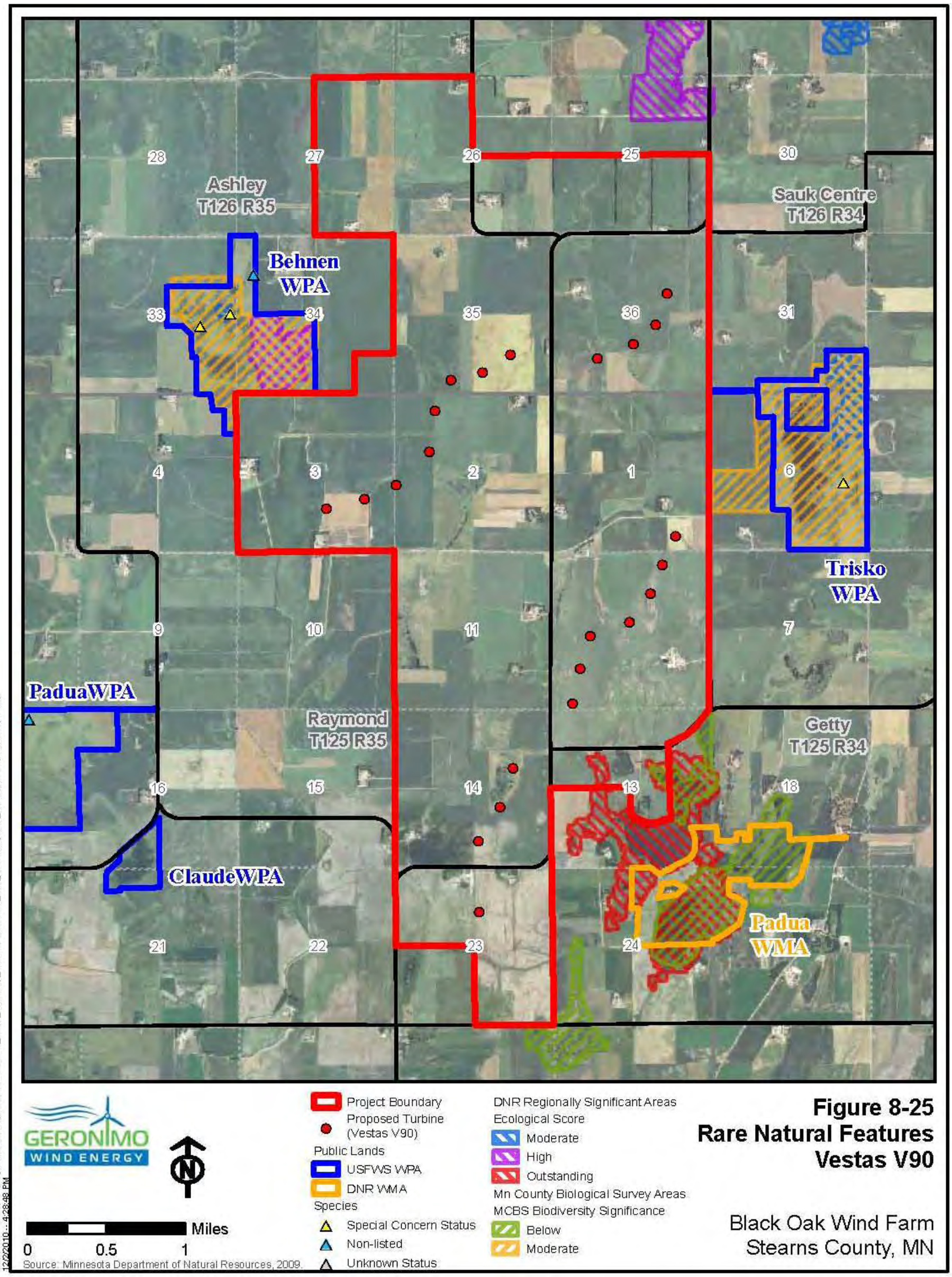
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Sauk Centre
T126 R34
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Trisko
WPA
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PaduaWPA
Raymond
T125 R35
Getty
T125 R34
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ClaudeWPA
Padua
WMA
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Map Document: (\\mrsp-e-gis-file\GISProj\Geronimo\1113816_Black_Oak\map_docs\mxd\LWECS_Site_PermitFig8-25_RareNaturalSpeciesMap.mxd)
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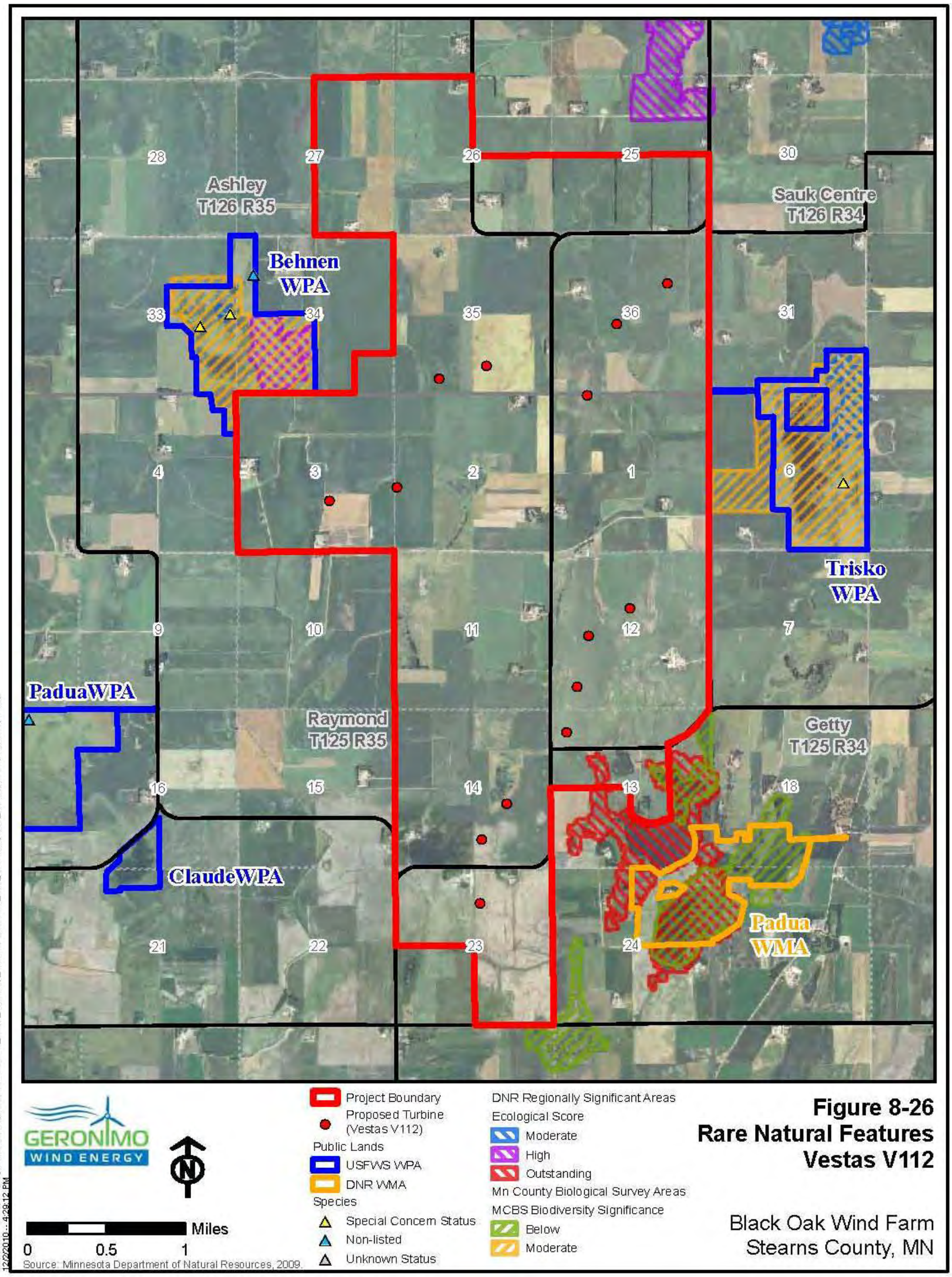
GERONIMO
WIND ENERGY
N
Miles
0
0.5
1
Source: Minnesota Department of Natural Resources, 2009.
Project Boundary
Proposed Turbine
(Vestas V90)
Public Lands
USFWS WPA
DNR WMA
Species
Special Concern Status
Non-listed
Unknown Status
DNR Regionally Significant Areas
Ecological Score
Moderate
High
Outstanding
Mn County Biological Survey Areas
MCBS Biodiversity Significance
Below
Moderate
Figure 8-25
Rare Natural Features
Vestas V90
Black Oak Wind Farm
Stearns County, MN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Ashley
T126 R35
Sauk Centre
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Behnen
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Trisko
WPA
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PaduaWPA
Raymond
T125 R35
Getty
T125 R34
16
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ClaudeWPA
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23
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Padua
WMA
Project Boundary
Proposed Turbine
(Vestas V112)
Public Lands
USFWS WPA
DNR WMA
Species
Special Concern Status
Non-listed
Unknown Status
DNR Regionally Significant Areas
Ecological Score
Moderate
High
Outstanding
Mn County Biological Survey Areas
MCBS Biodiversity Significance
Below
Moderate
GERONIMO
WIND ENERGY
N
Miles
0
0.5
1
Source: Minnesota Department of Natural Resources, 2009.
Figure 8-26
Rare Natural Features
Vestas V112
Black Oak Wind Farm
Stearns County, MN
Map Document: (\\mrpe-gis-file\GISProj\Geronimo\1113816_Black_Oak\map_docs\mxd\LWECS_Site_PermitFig8-26_RareNaturalSpeciesMap.mxd)
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