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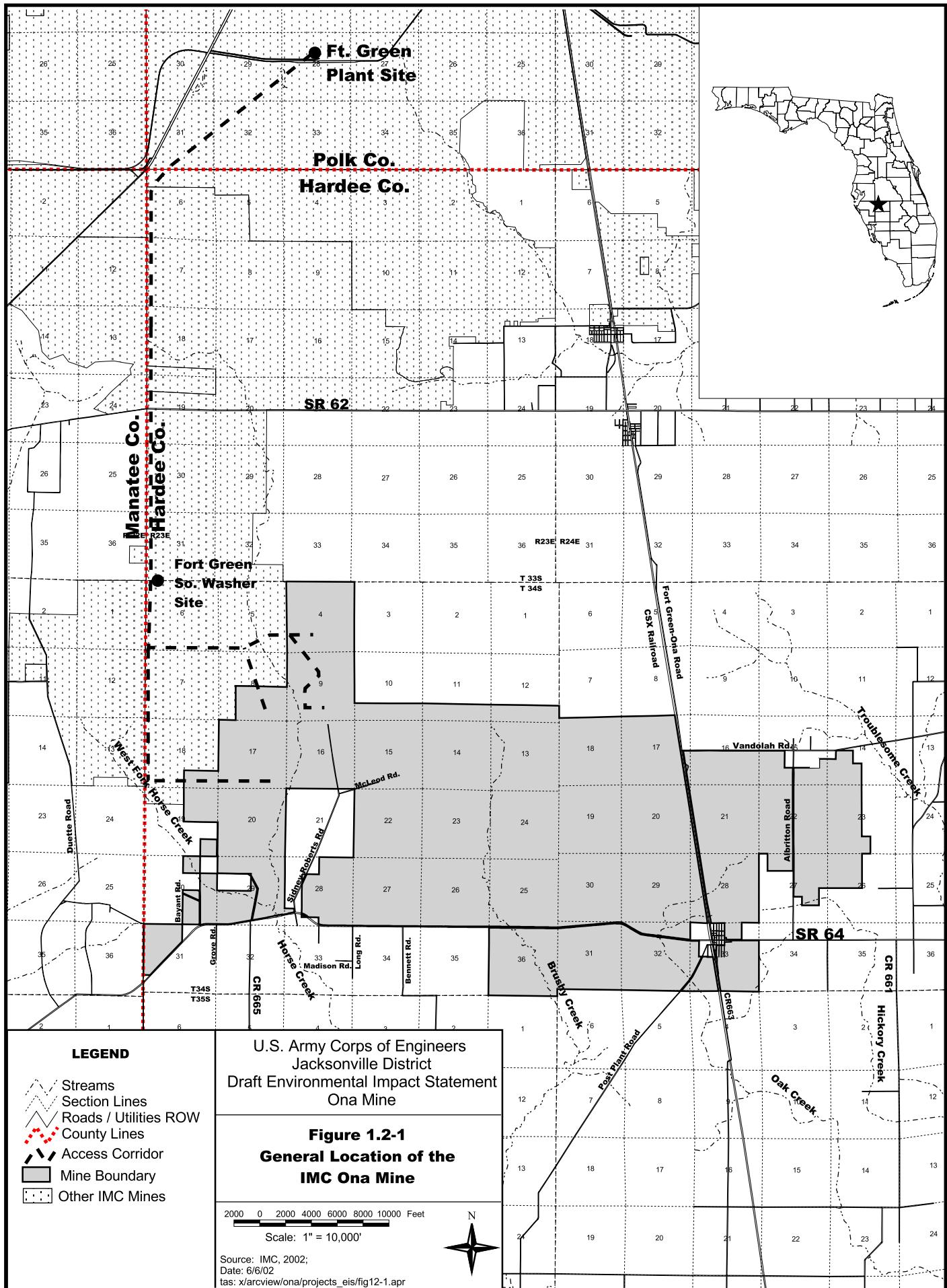
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**IMC's Original Areas
to be Mined**

Source: IMC, 2002

9/19/02
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**Figure 2.1-1
IMC's Original Areas
to be Mined**

9/19/02 Source: IMC, 2002
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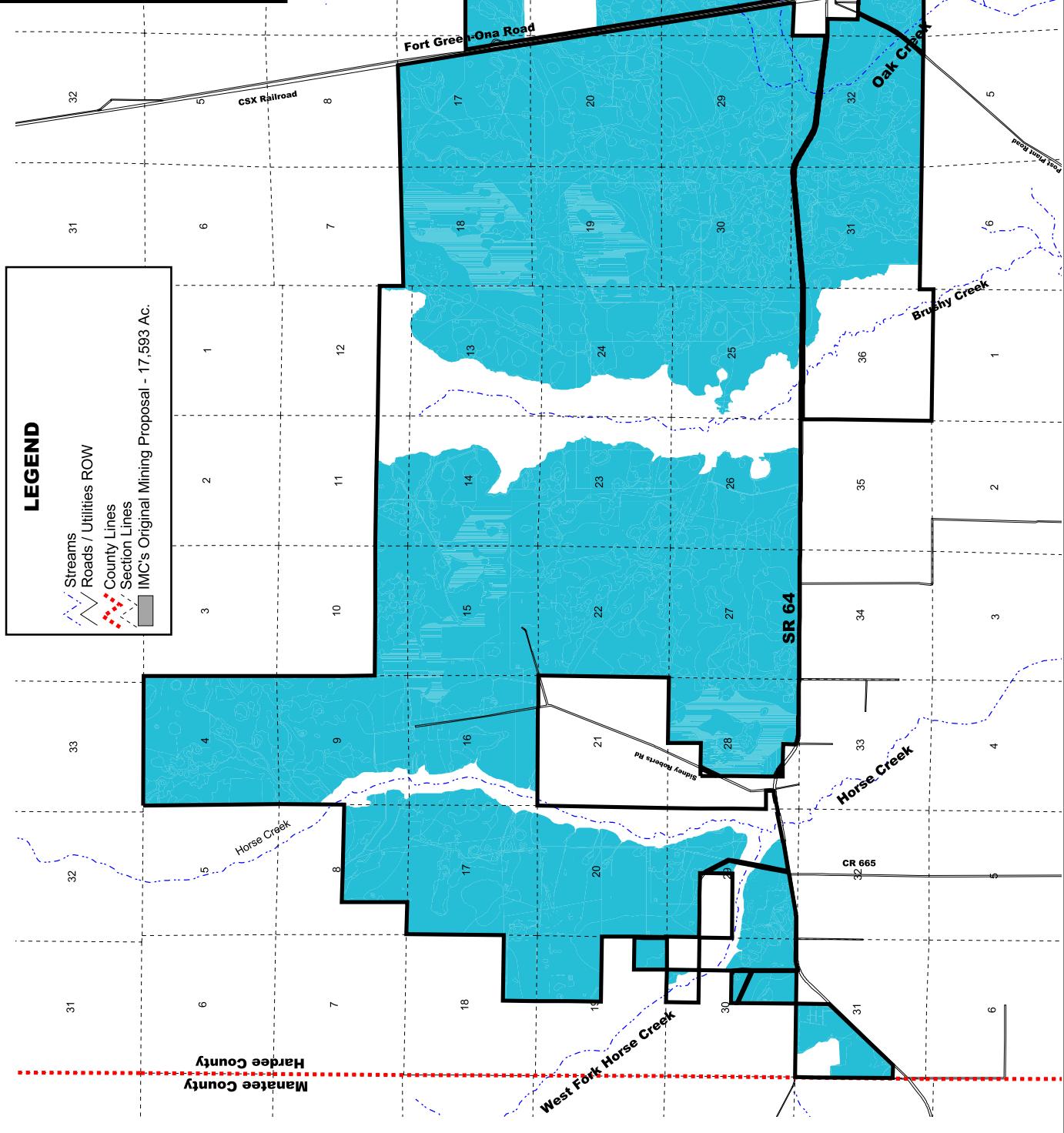
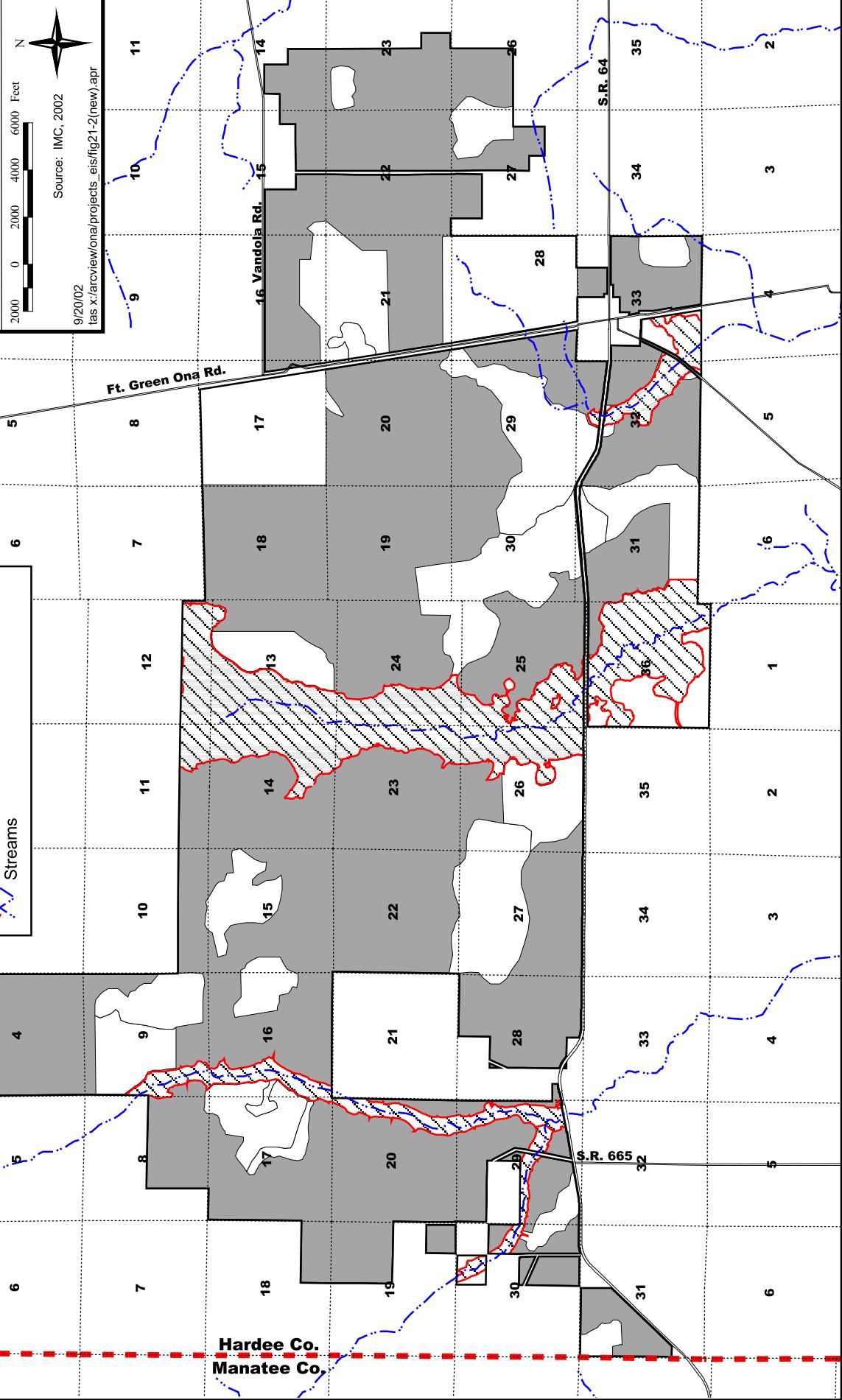


Figure 2.1-2
Minable Areas Based on
AWG Areas of Conservation Interest



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Figure 2.1-3
Areas to be Mined
(IMC's Proposed Action)

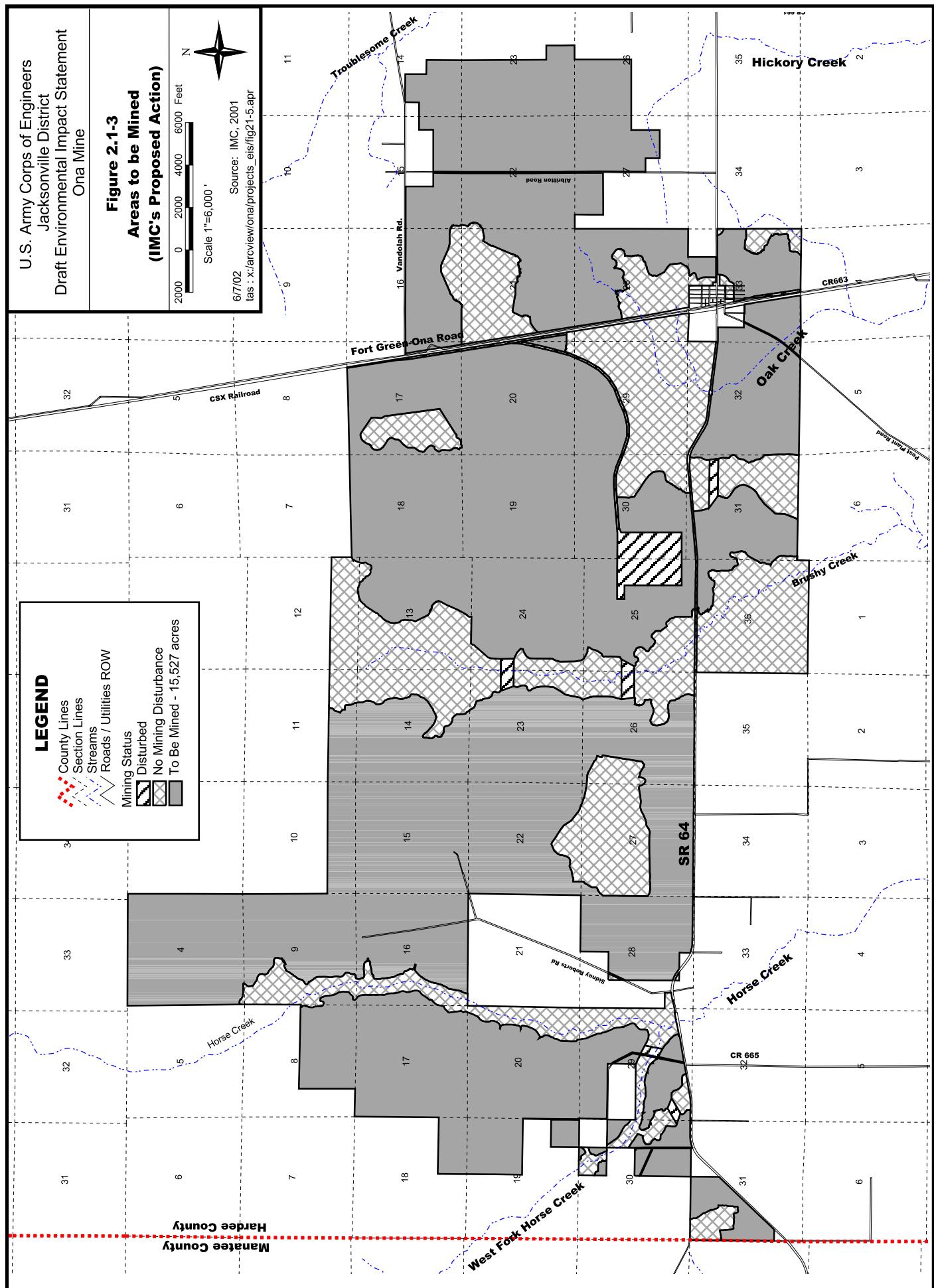
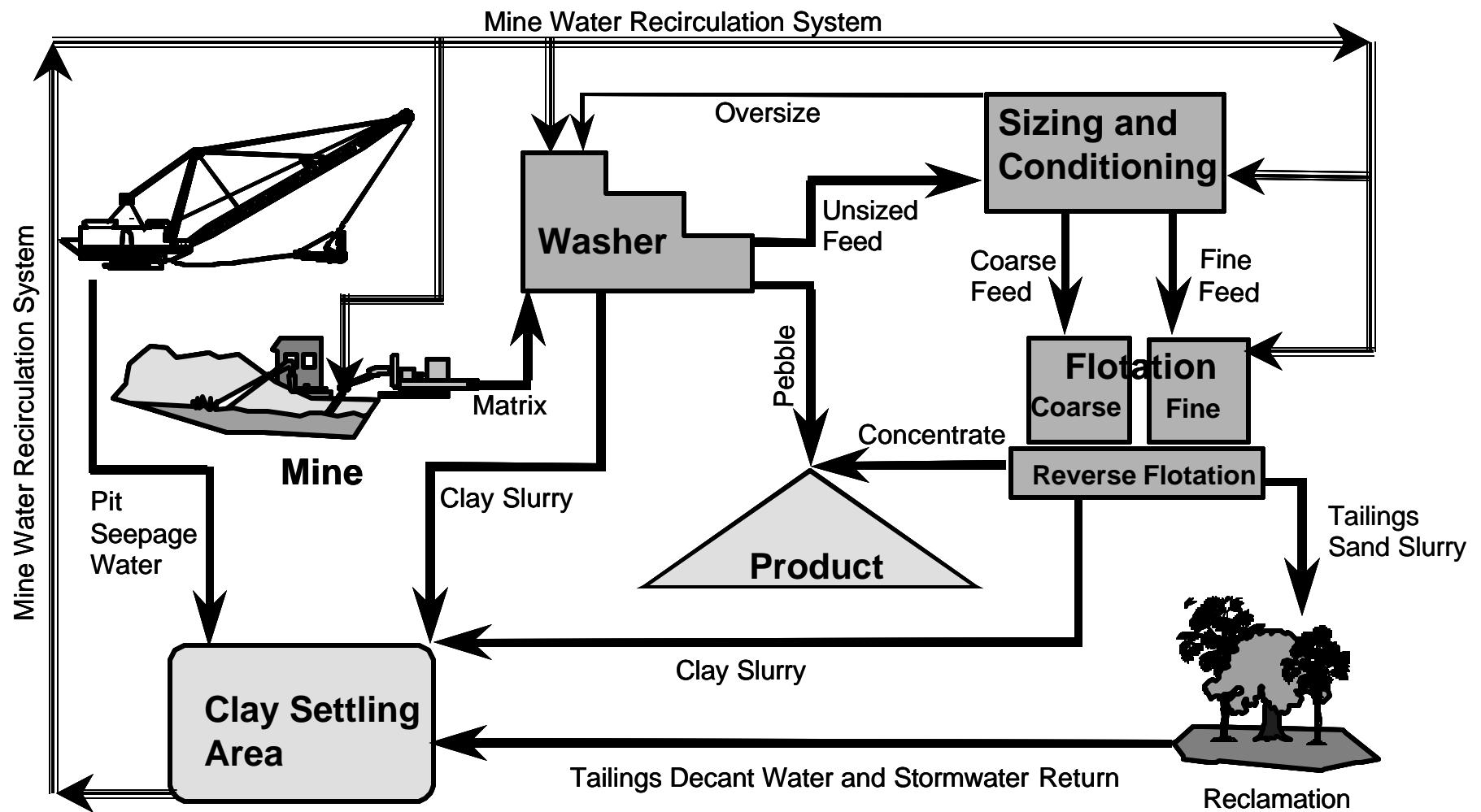


Figure 2.1-4
Generalized Mine Process Flow Chart

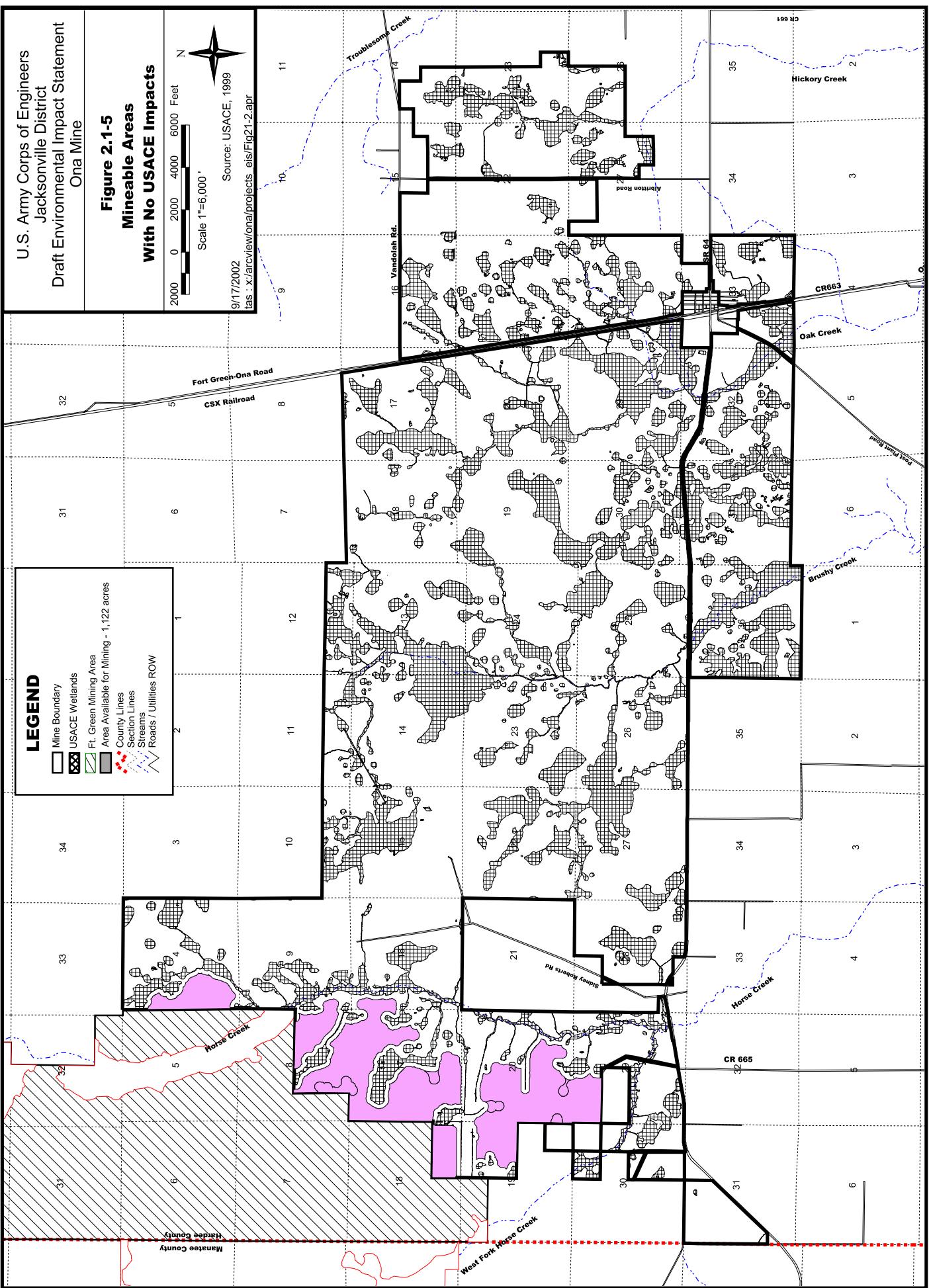
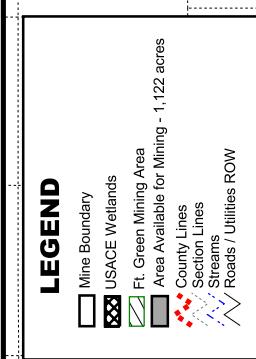
Source:
IMC, 2002.



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Figure 2.1-5
Mineable Areas
With No USACE Impacts

Source: USACE, 1999
9/17/2002
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Scale 1=6,000'



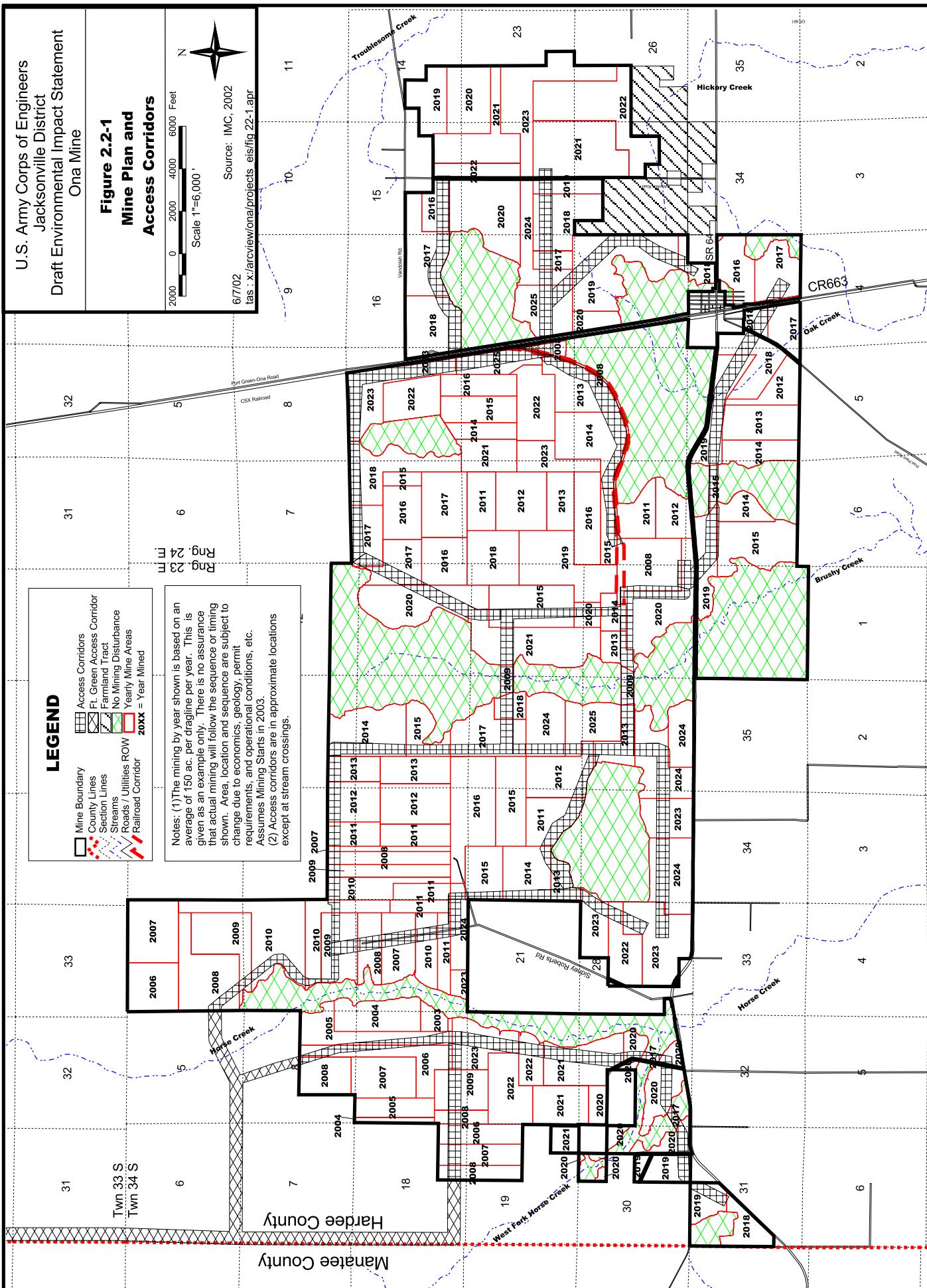
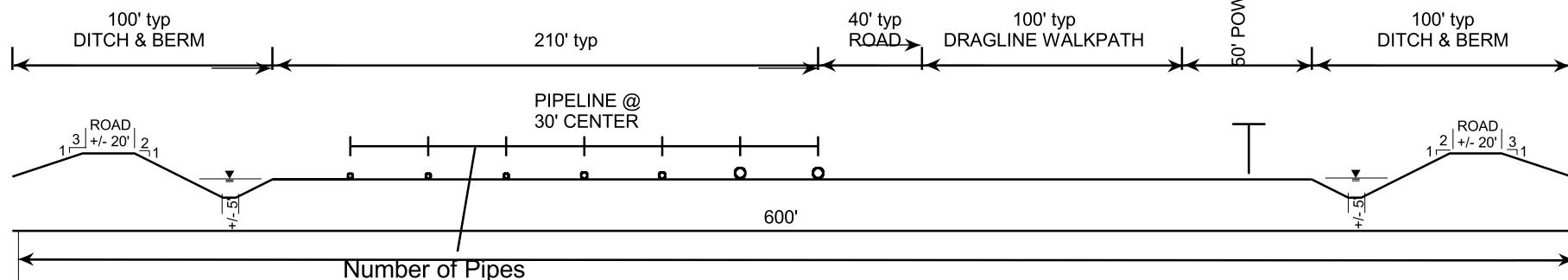
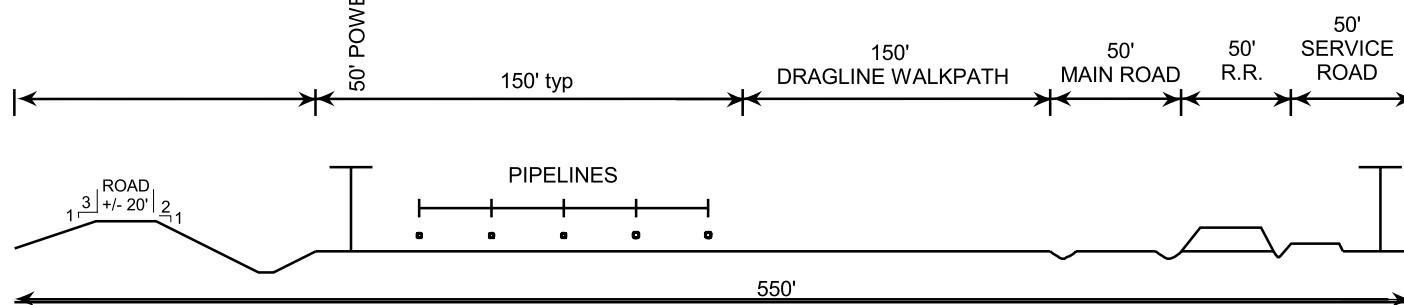
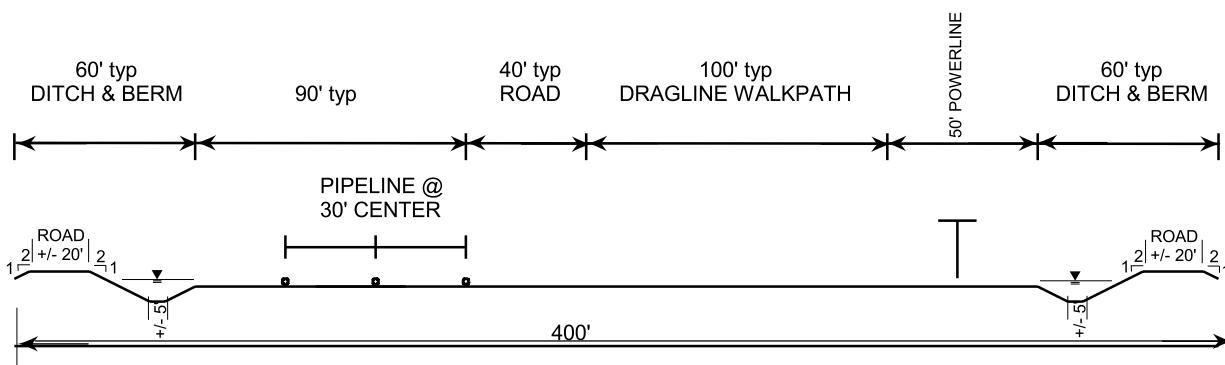


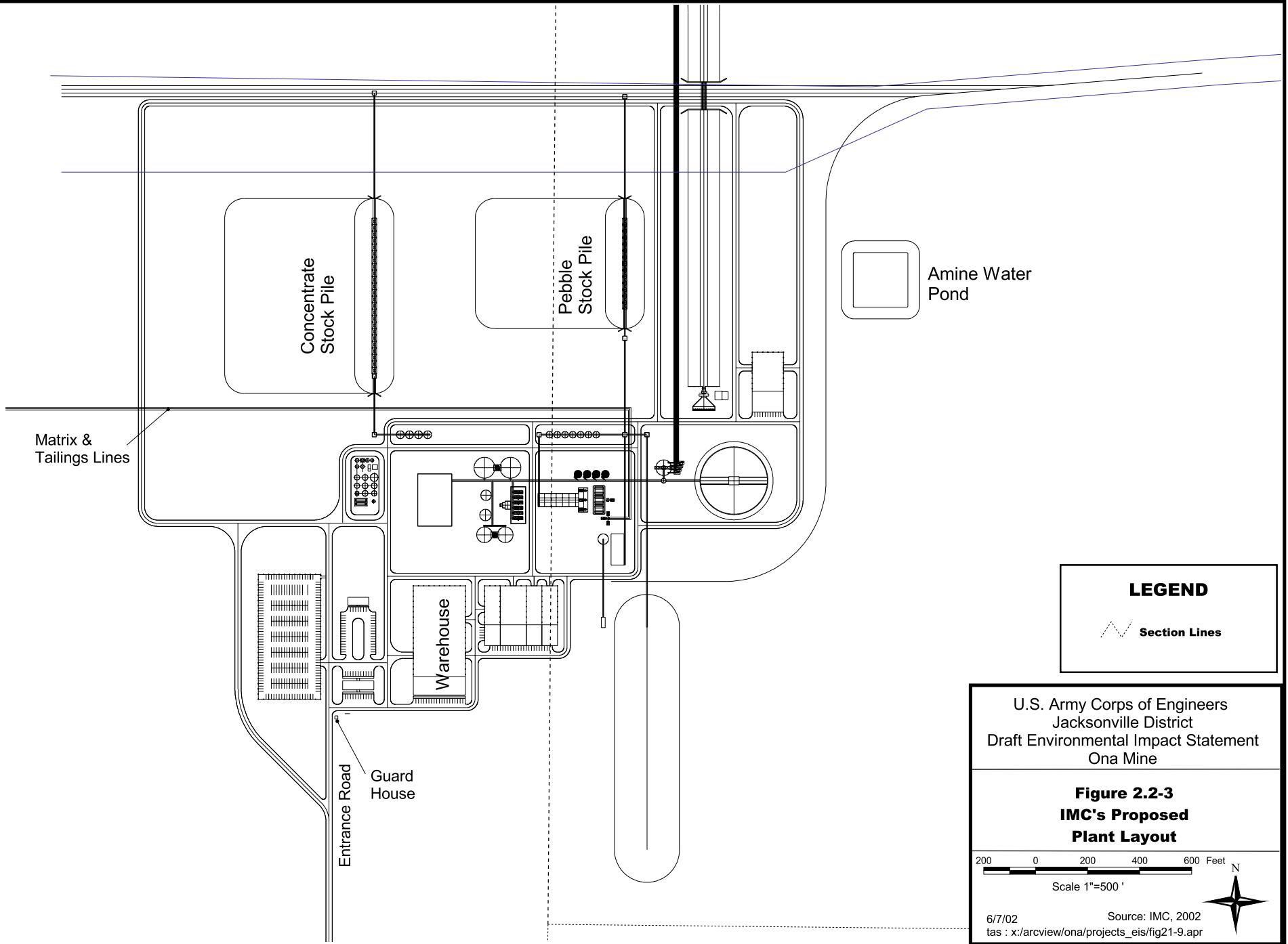
Figure 2.2-2
Typical Access Corridor
Cross Sections

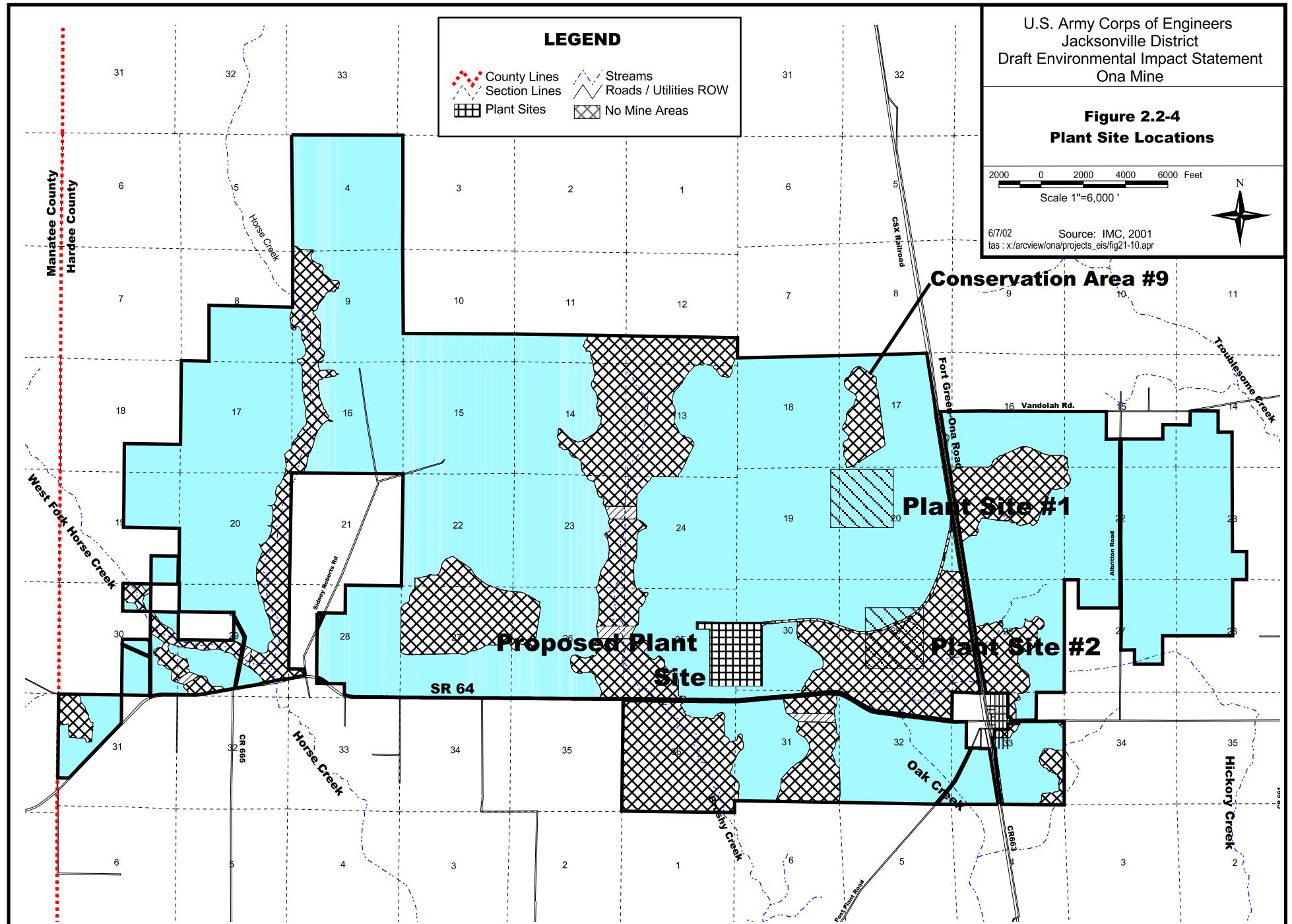
NOT TO SCALE

10/18/01 Source: IMC, 2001
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- 1 - SAND TAILINGS
- 2 - MATRIX
- 2 - HYDRAULIC
- 2 - CLAY

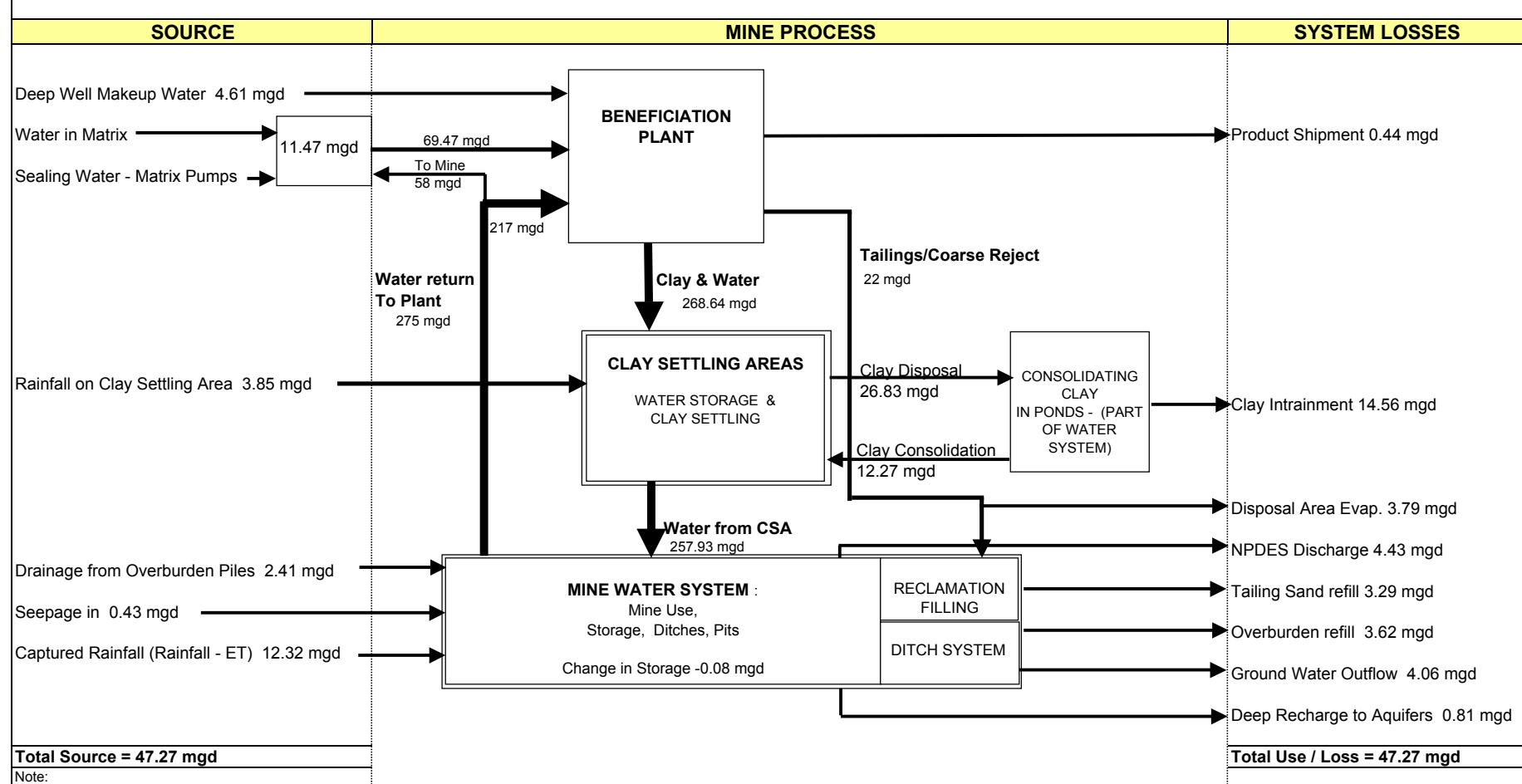




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Figure 2.2-5
Ona Mine Water Balance Flowchart

Source: Smith, 2001.



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Figure 2.2-6
Clay Settling Areas
and NPDES Outfall Locations

2000 0 2000 4000 6000 Feet
Scale 1"=6,000'



6/7/02
Source: IMC, 2002
tas : x:/arcview/ona/projects_eis/fig 21-12.apr

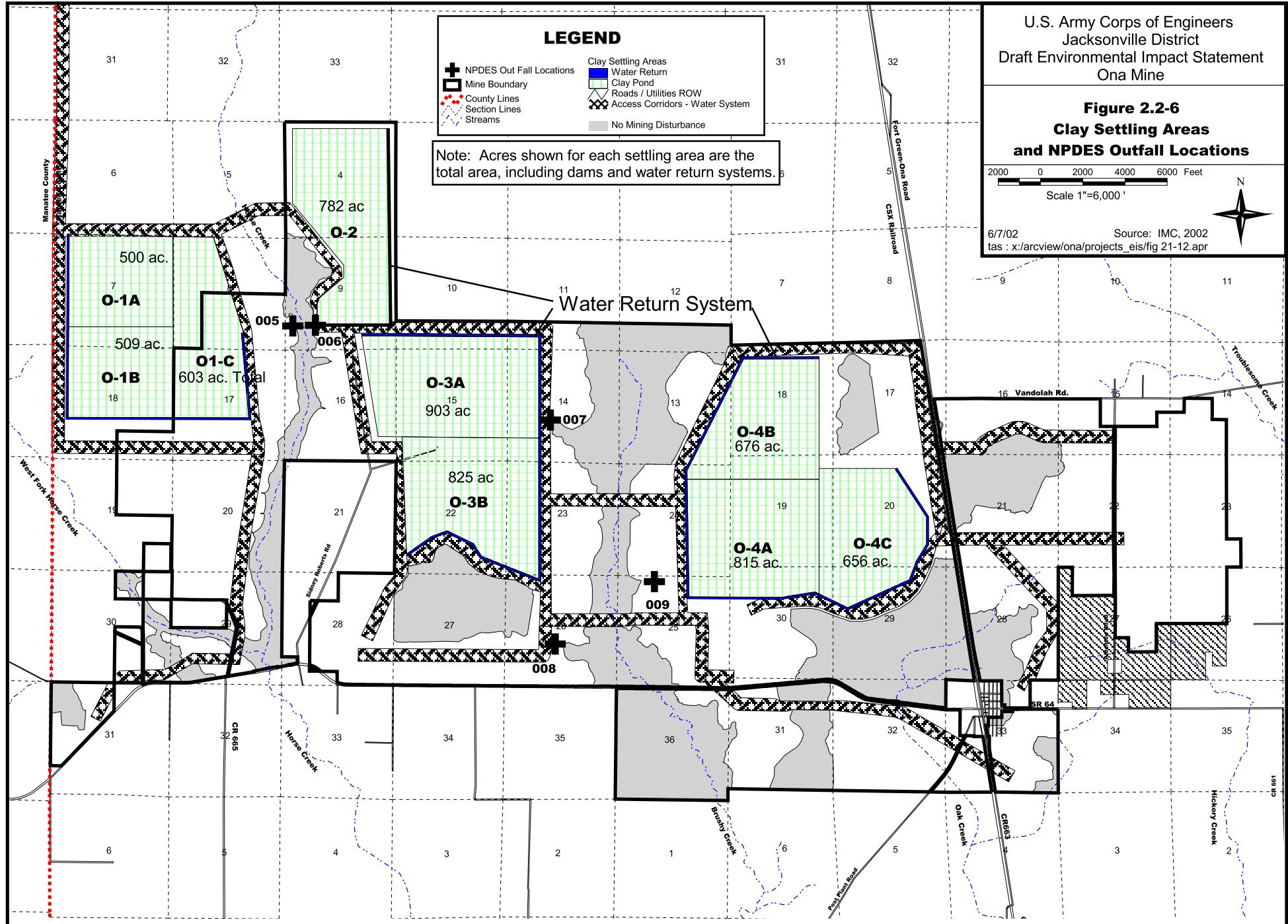


Figure 2.2-7
Cross-Section View of Conventional Clay Disposal

Source:
Golder, 2002.
Not to Scale

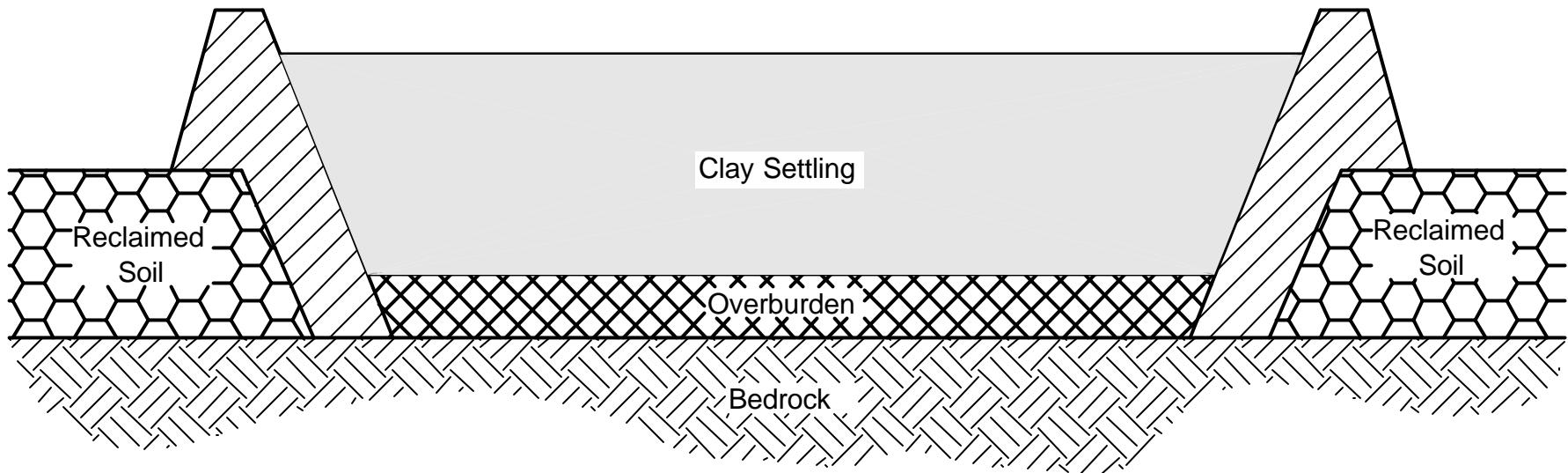
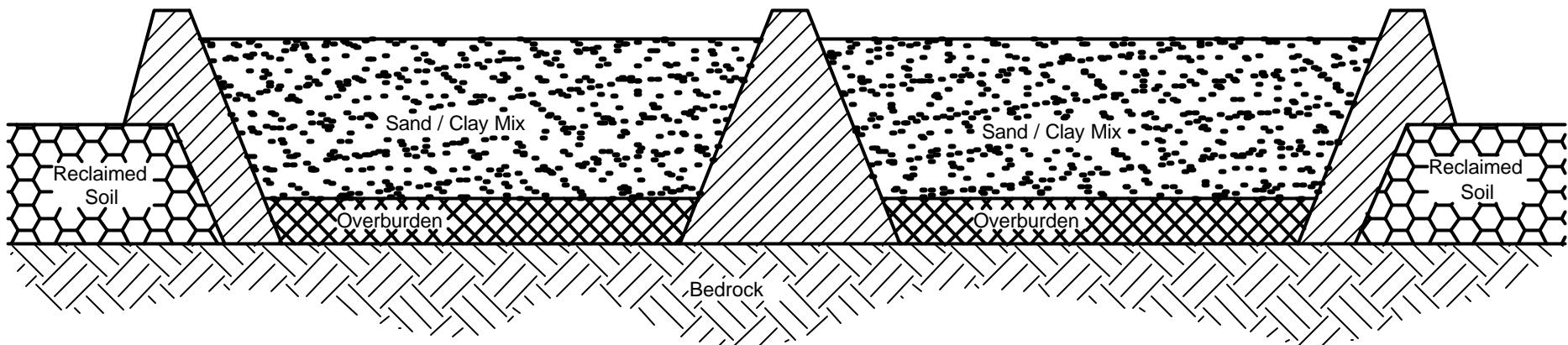


Figure 2.2-8
Cross-Section View of Sand / Clay Disposal

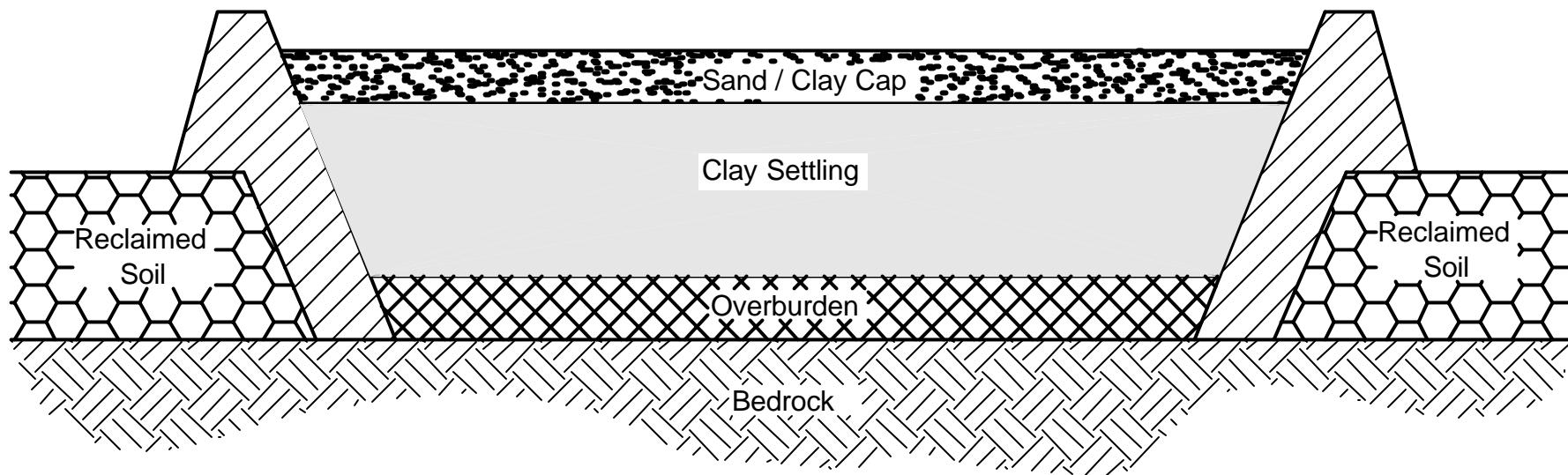
Source:
Golder, 2002.
Not to Scale

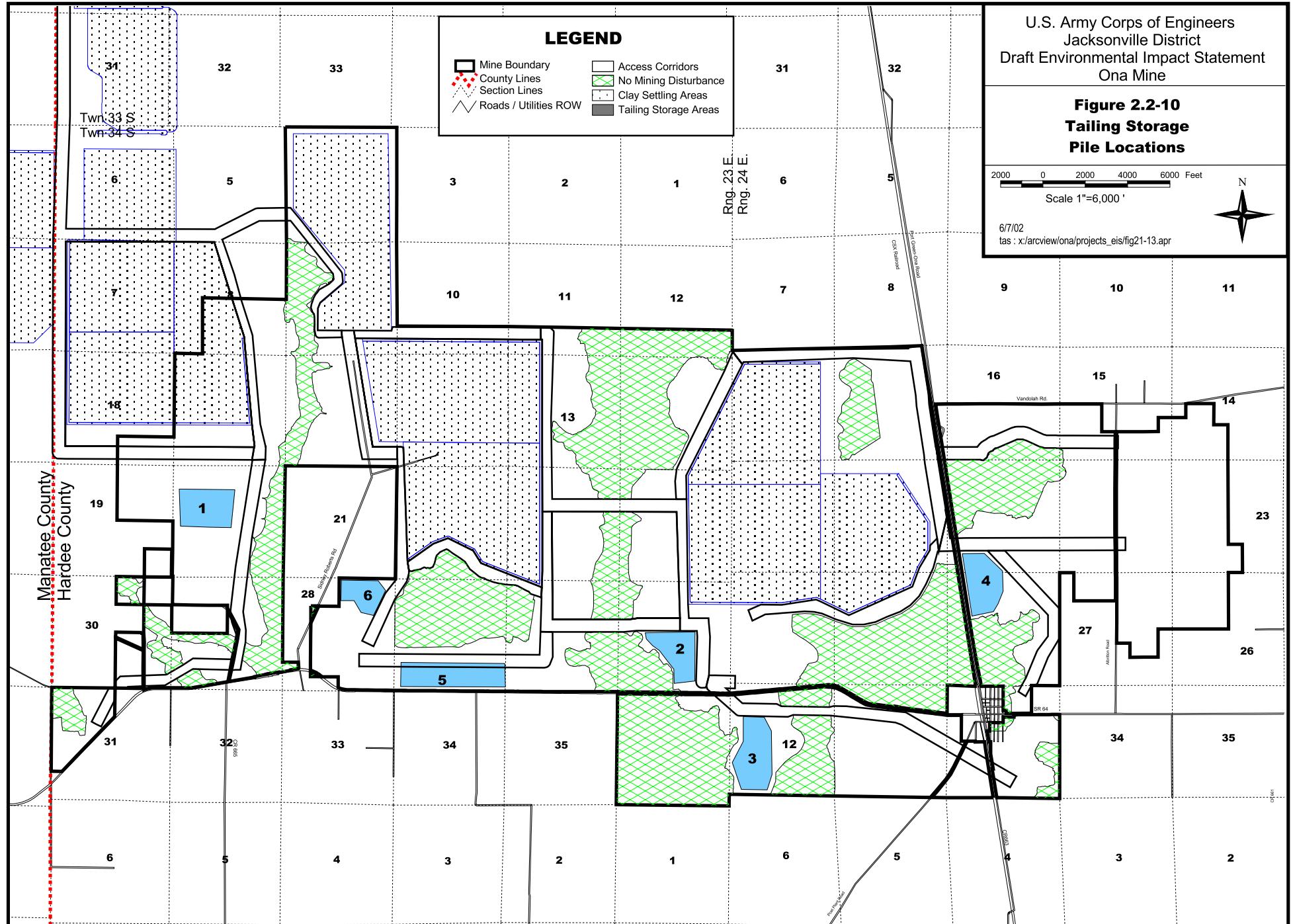


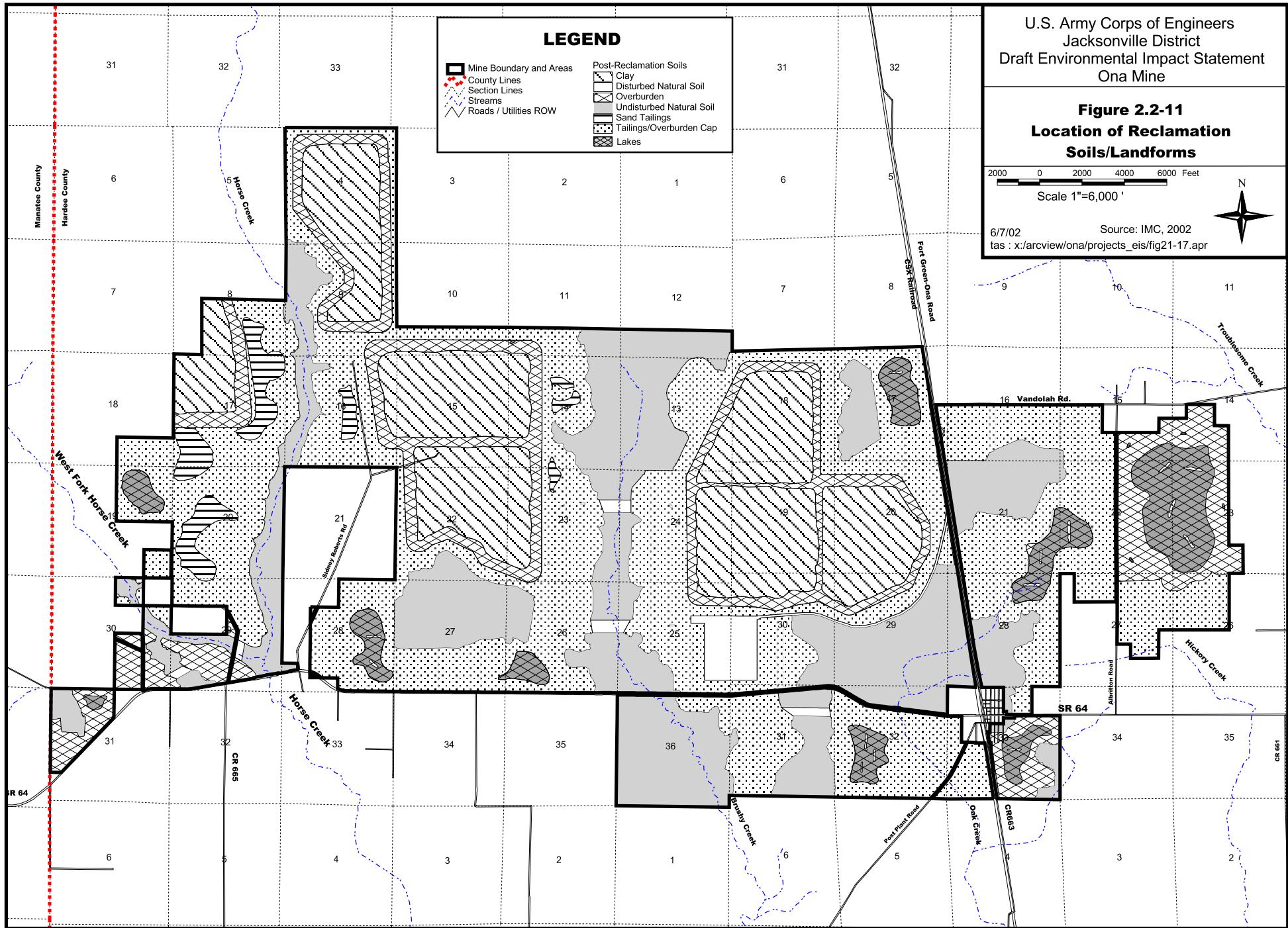
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Figure 2.2-9
Cross-Section View of Clay Disposal with
Sand / Clay Cap

Source:
Golder, 2002.
Not to Scale

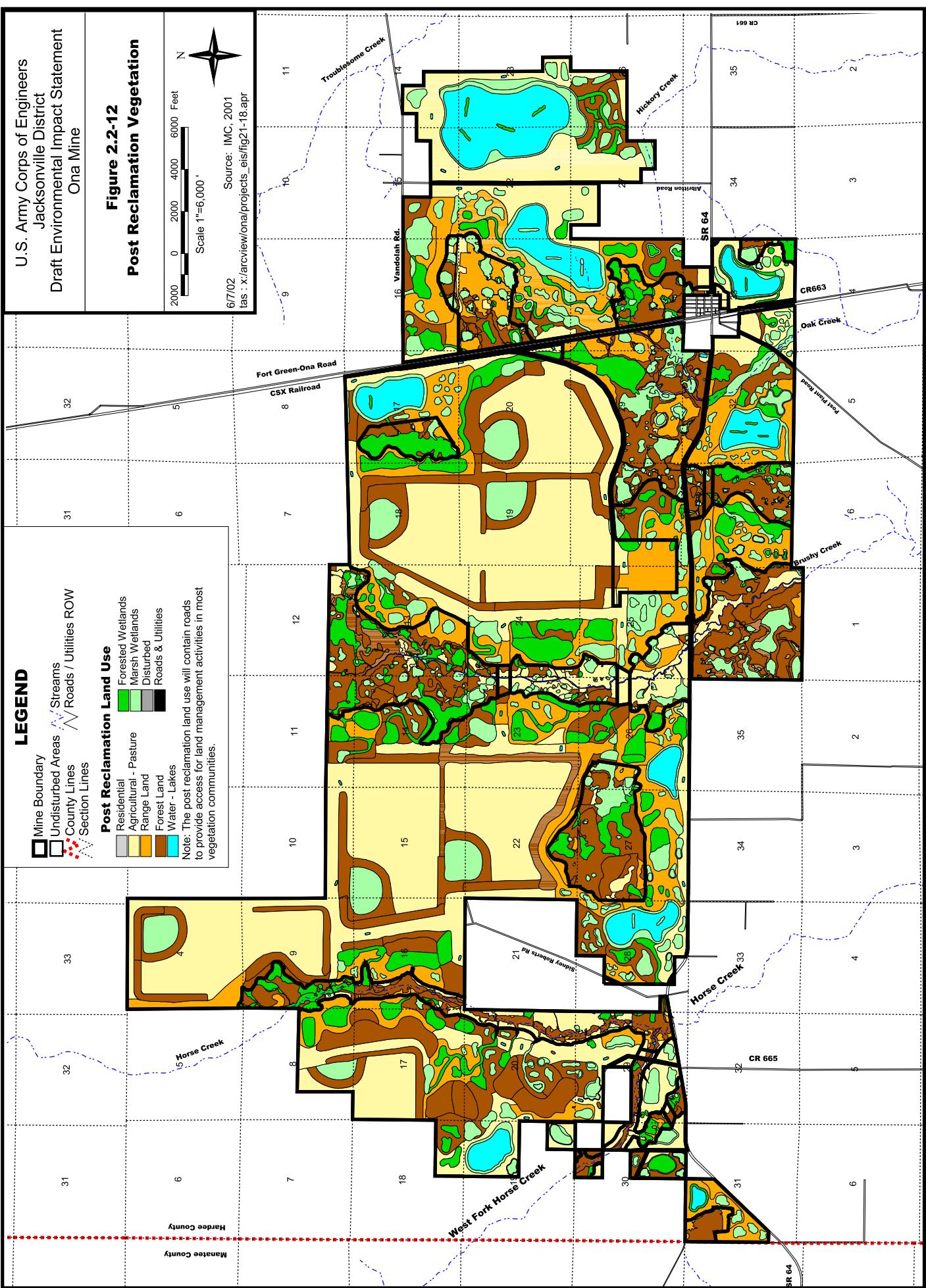






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Figure 2.2-12
Post Reclamation Vegetation

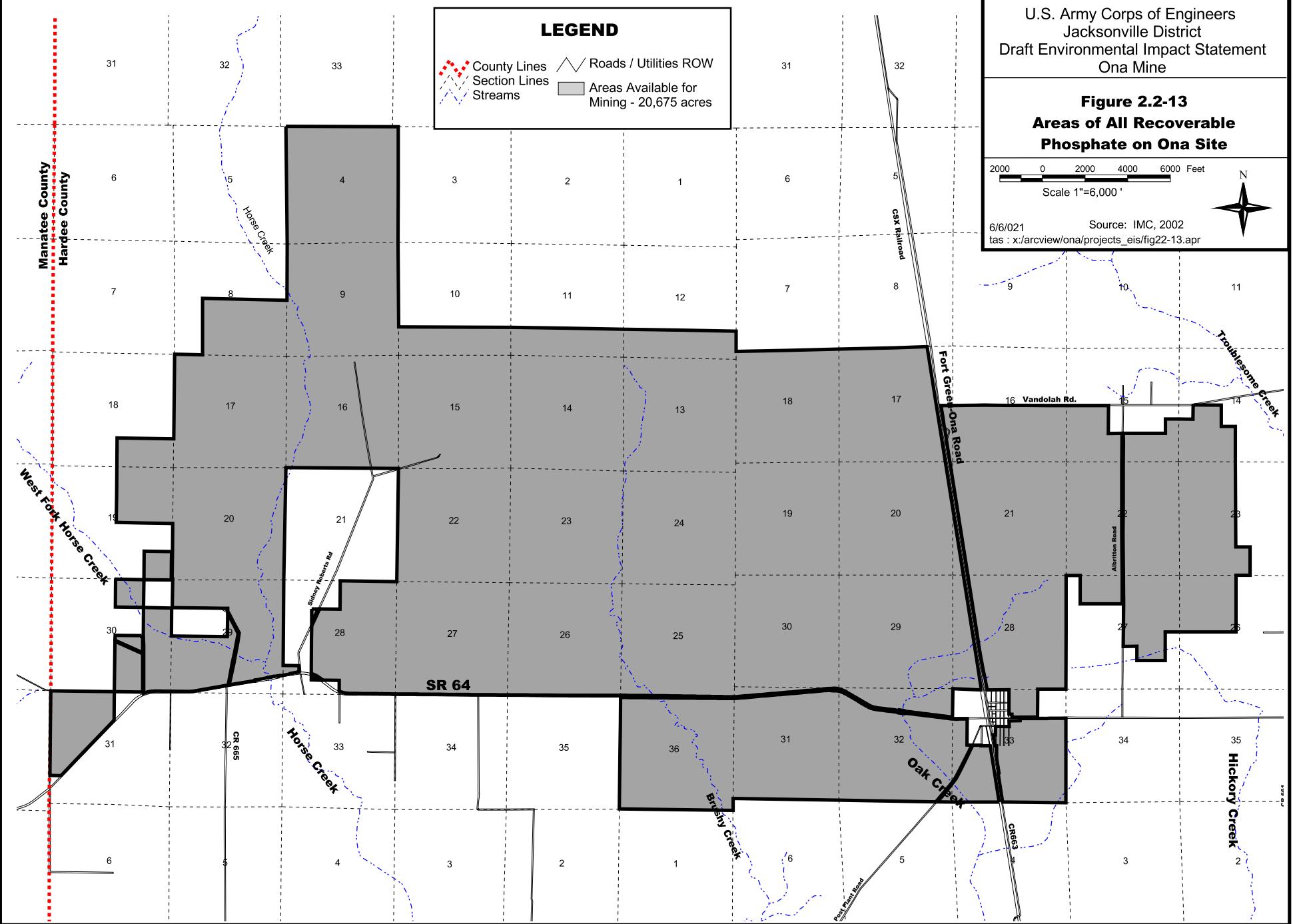


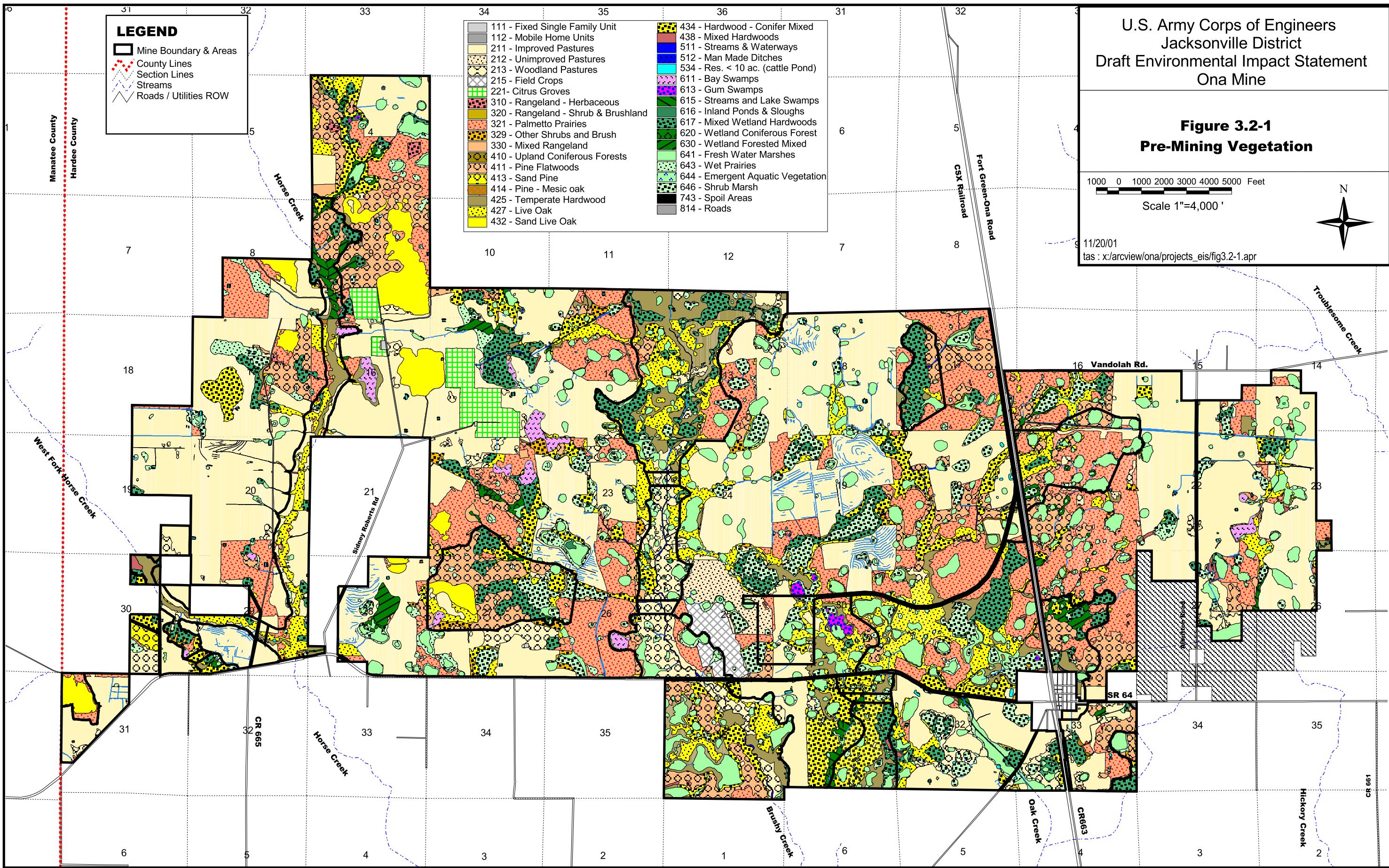
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Figure 2.2-13
Areas of All Recoverable Phosphate on Ona Site

2000 0 2000 4000 6000 Feet
Scale 1"=6,000'

6/6/021 Source: IMC, 2002
tas : x:/arcview/ona/projects_eis/fig22-13.apr





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Figure 3.3-1
Listed Wildlife
Species Locations

2000 0 2000 4000 6000 Feet
Scale 1"=6,000'



6/5/02 Source: ECT, 2000
tas : x:/arcview/ona/projects_eis/fig33-3.apr

LEGEND

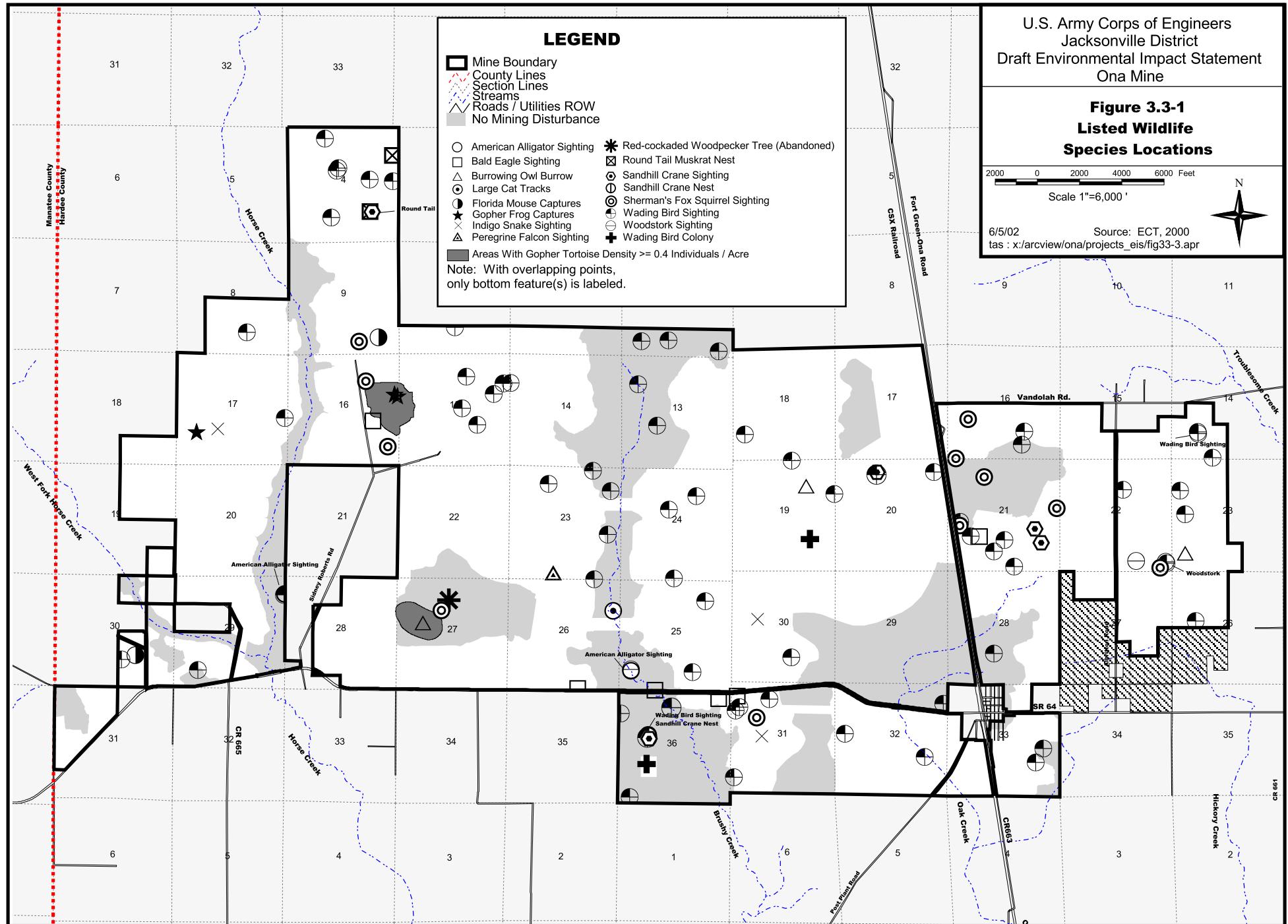
- Mine Boundary
- County Lines
- Section Lines
- Streams
- Roads / Utilities ROW
- No Mining Disturbance

- American Alligator Sighting
- Bald Eagle Sighting
- Burrowing Owl Burrow
- Large Cat Tracks
- Florida Mouse Captures
- Gopher Frog Captures
- Indigo Snake Sighting
- Peregrine Falcon Sighting

- Red-cockaded Woodpecker Tree (Abandoned)
- Round Tail Muskrat Nest
- Sandhill Crane Sighting
- Sandhill Crane Nest
- Sherman's Fox Squirrel Sighting
- Wading Bird Sighting
- Woodstork Sighting
- Wading Bird Colony

- Areas With Gopher Tortoise Density >= 0.4 Individuals / Acre

Note: With overlapping points,
only bottom feature(s) is labeled.



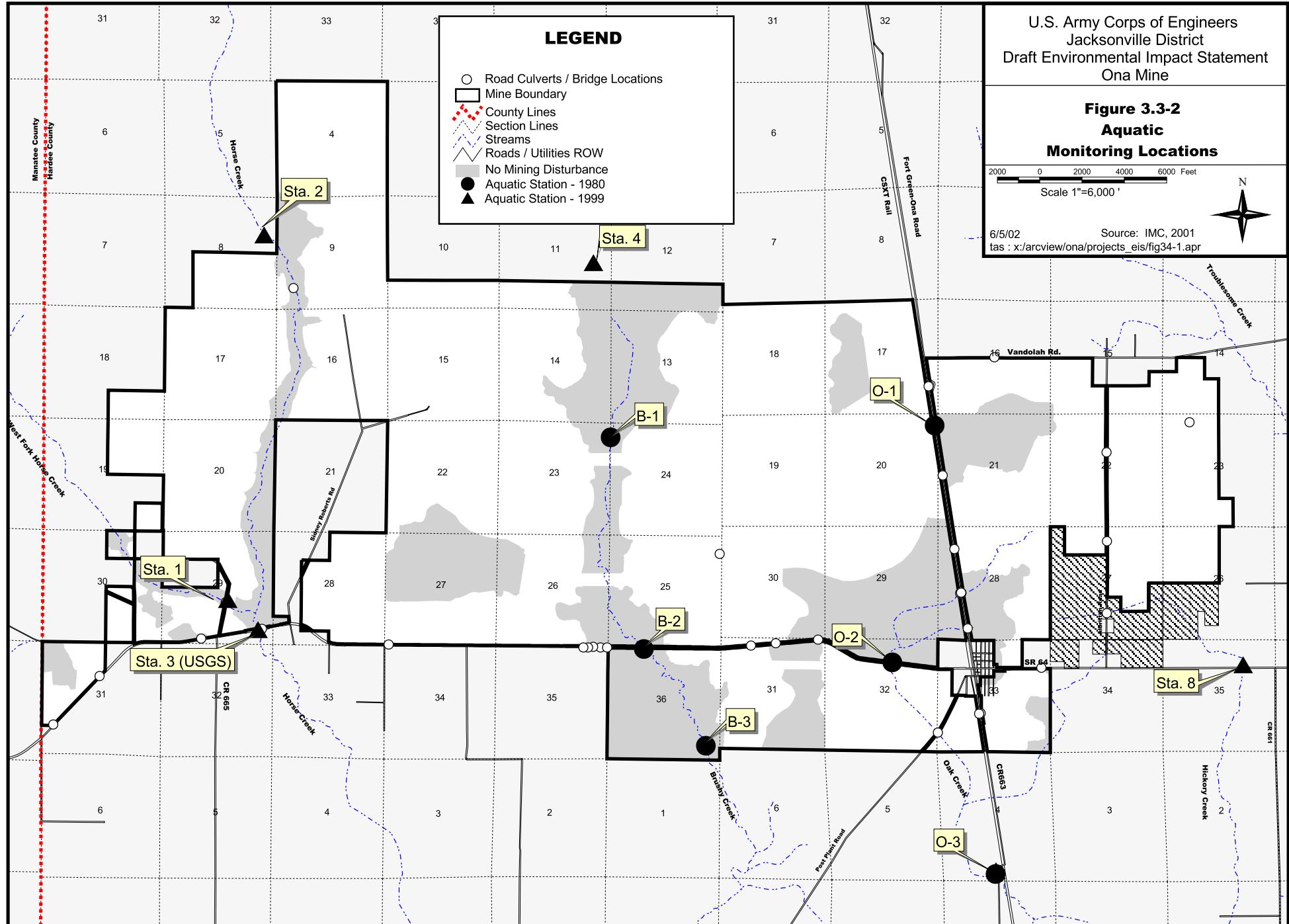


Figure 3.4-1
Survey Transects

2000 0 2000 4000 6000 Feet

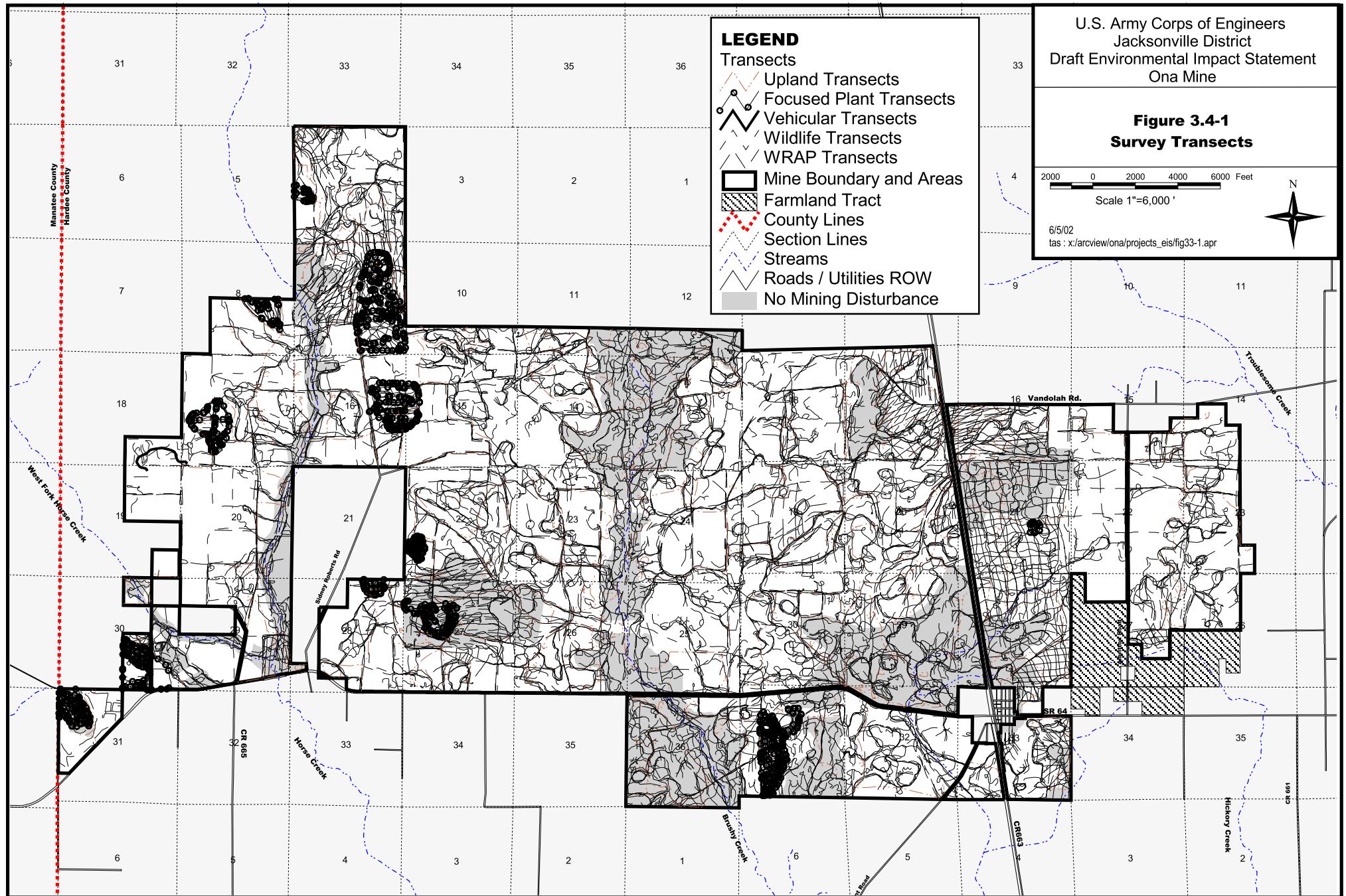
Scale 1"=6,000'

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LEGEND

- Transects
 - Upland Transects
 - Focused Plant Transects
 - Vehicular Transects
 - Wildlife Transects
 - WRAP Transects
- Mine Boundary and Areas
- Farmland Tract
- County Lines
- Section Lines
- Streams
- Roads / Utilities ROW
- No Mining Disturbance



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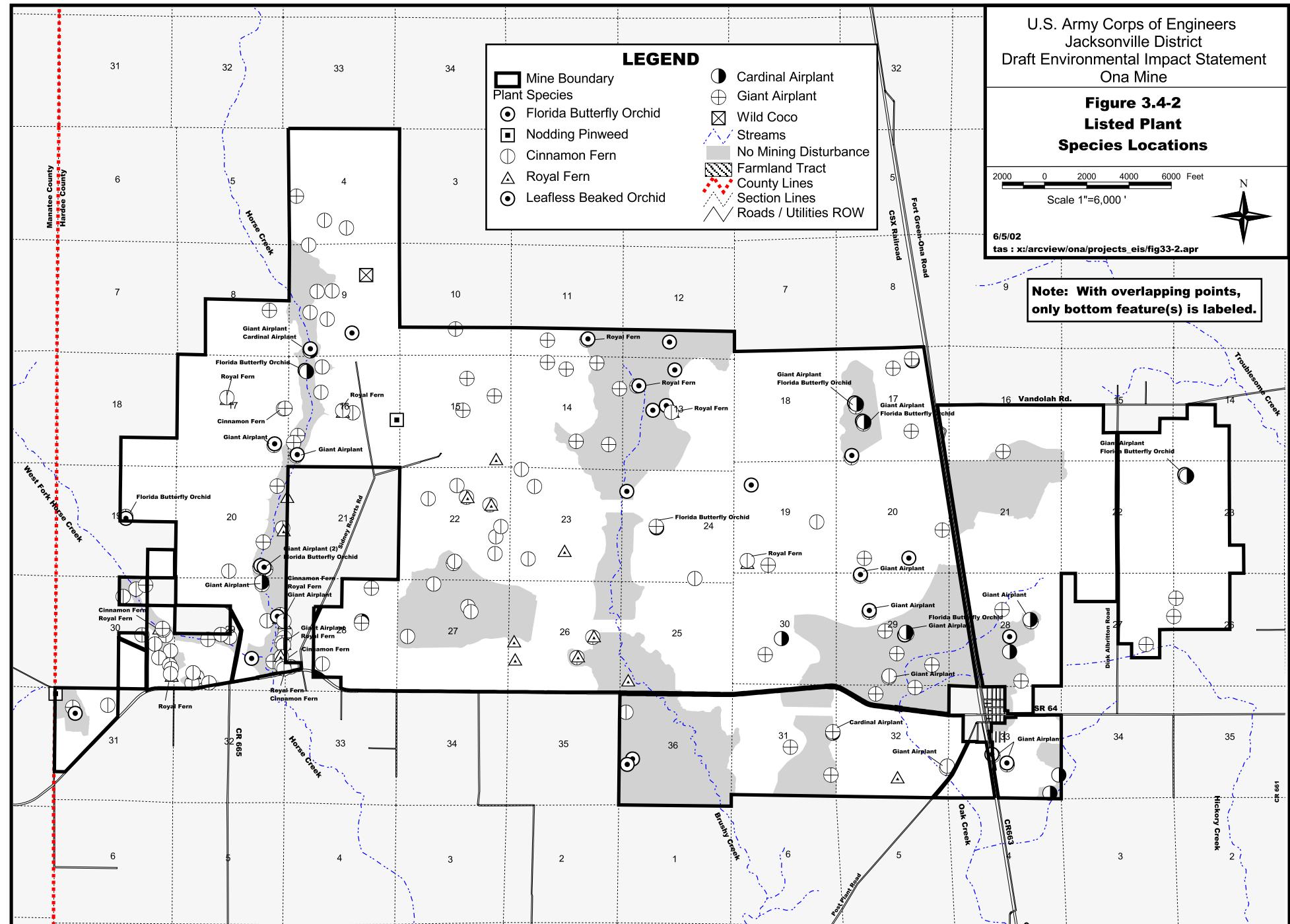
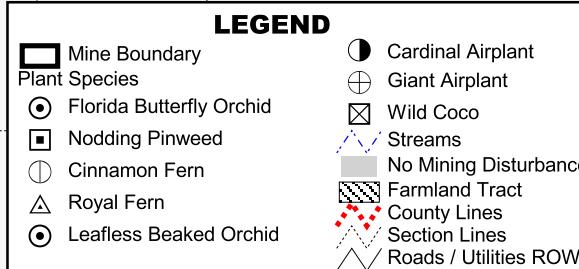
Figure 3.4-2
Listed Plant
Species Locations

2000 0 2000 4000 6000 Feet
Scale 1"=6,000'



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tas : x:/arcview/ona/projects.eis/fig33-2.apr

**Note: With overlapping points,
only bottom feature(s) is labeled.**



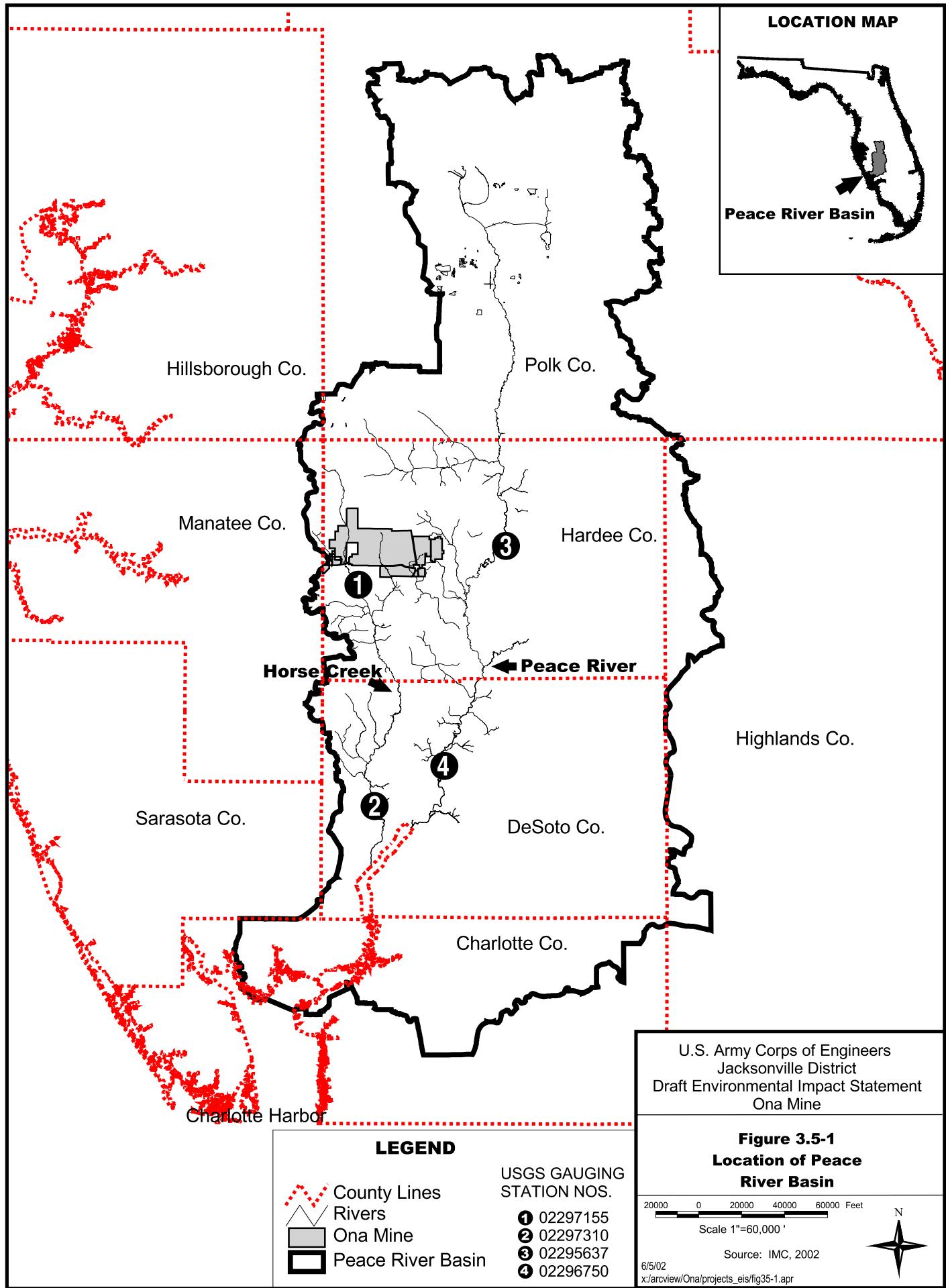


Figure 3.5-2
Rainfall Departures For NOAA Station at Wauchula

Source:
SWFWMD, 2001.

LEGEND
Longterm Average
(1933-2000) = 52.91

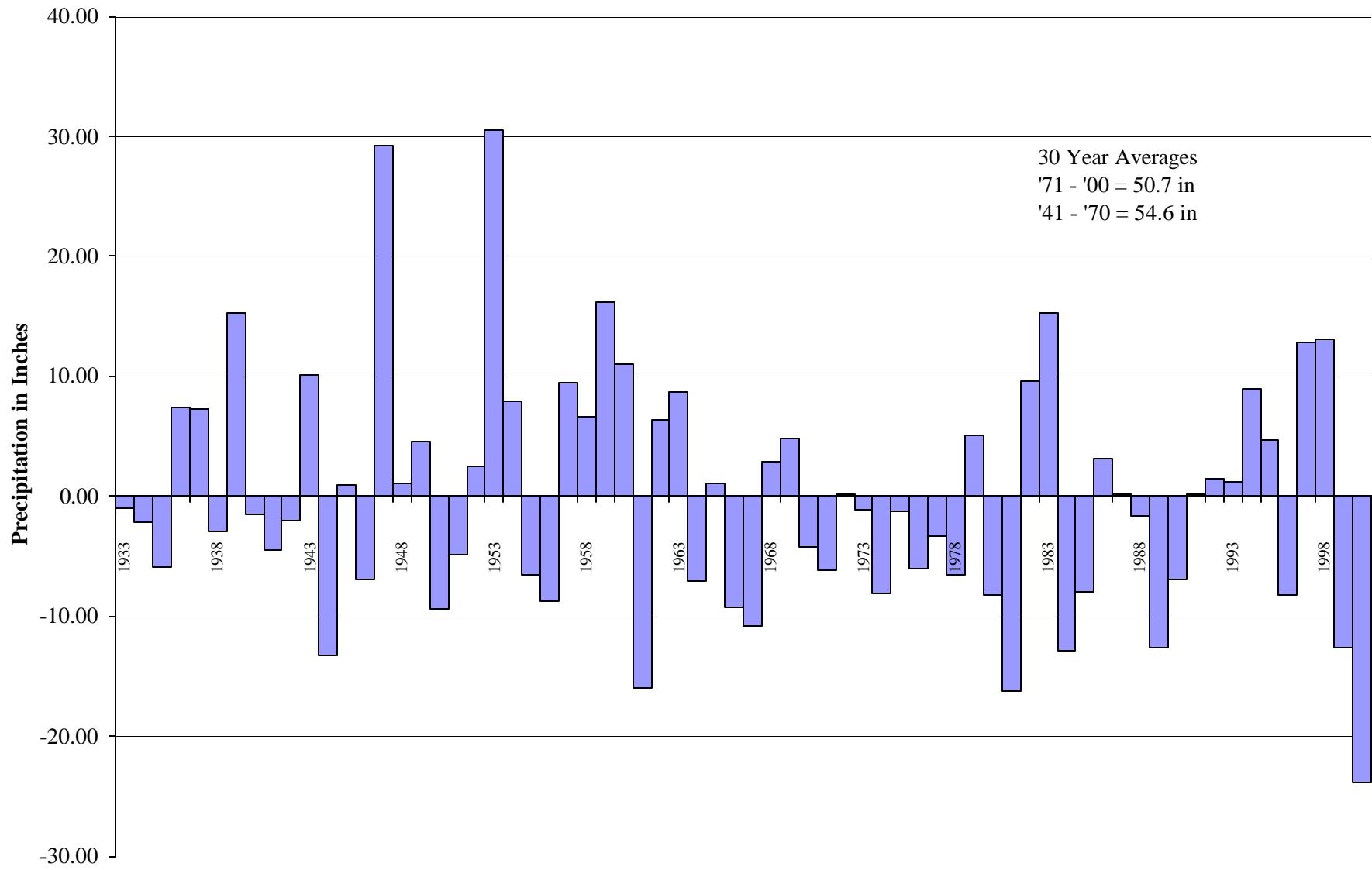
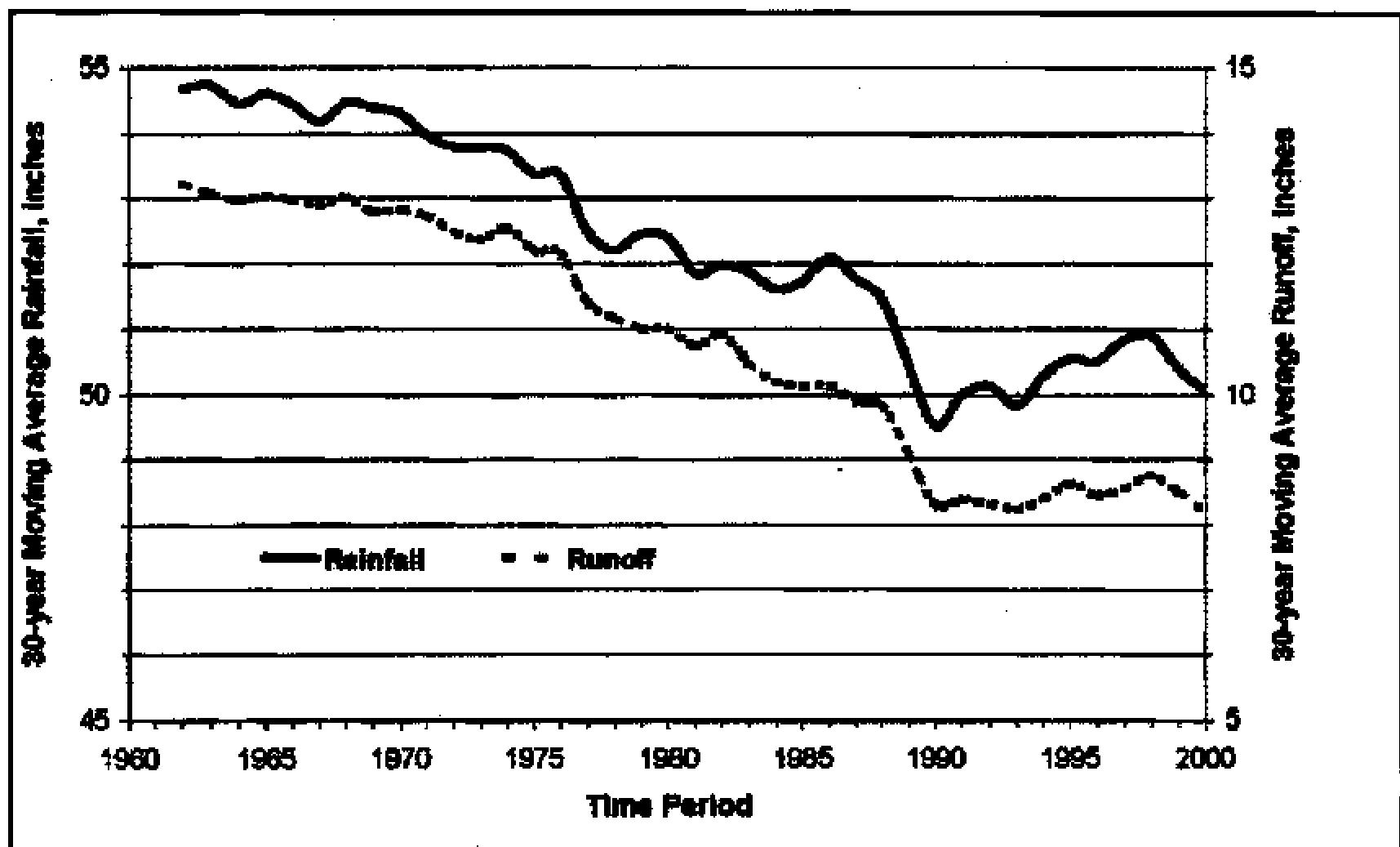
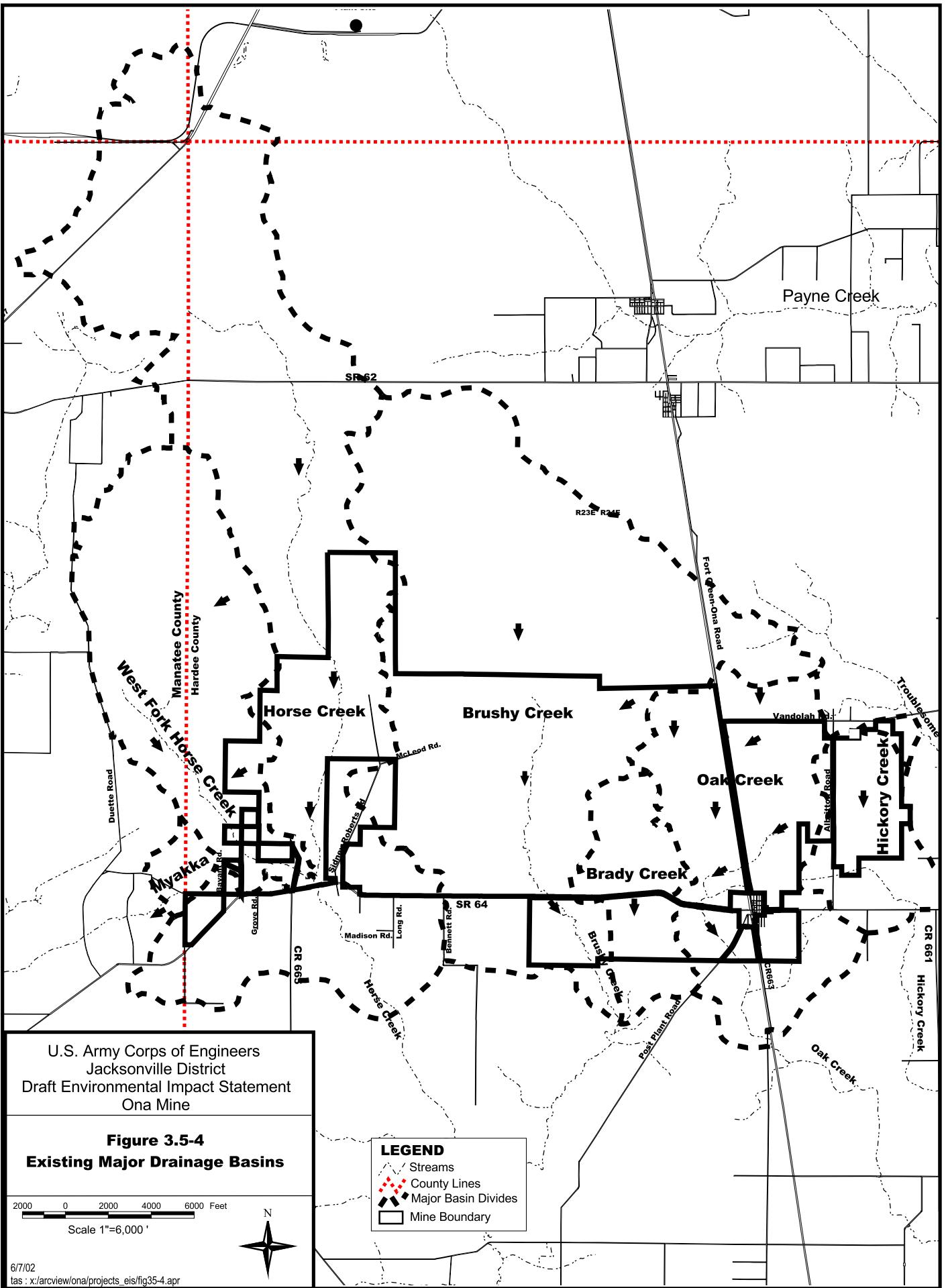


Figure 3.5-3
**30-year Moving Average for Rainfall and
Runoff in Inches**

Source:
Ardaman & Associates, 2002.





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Figure 3.5-5
Hydrologic
Monitoring Locations

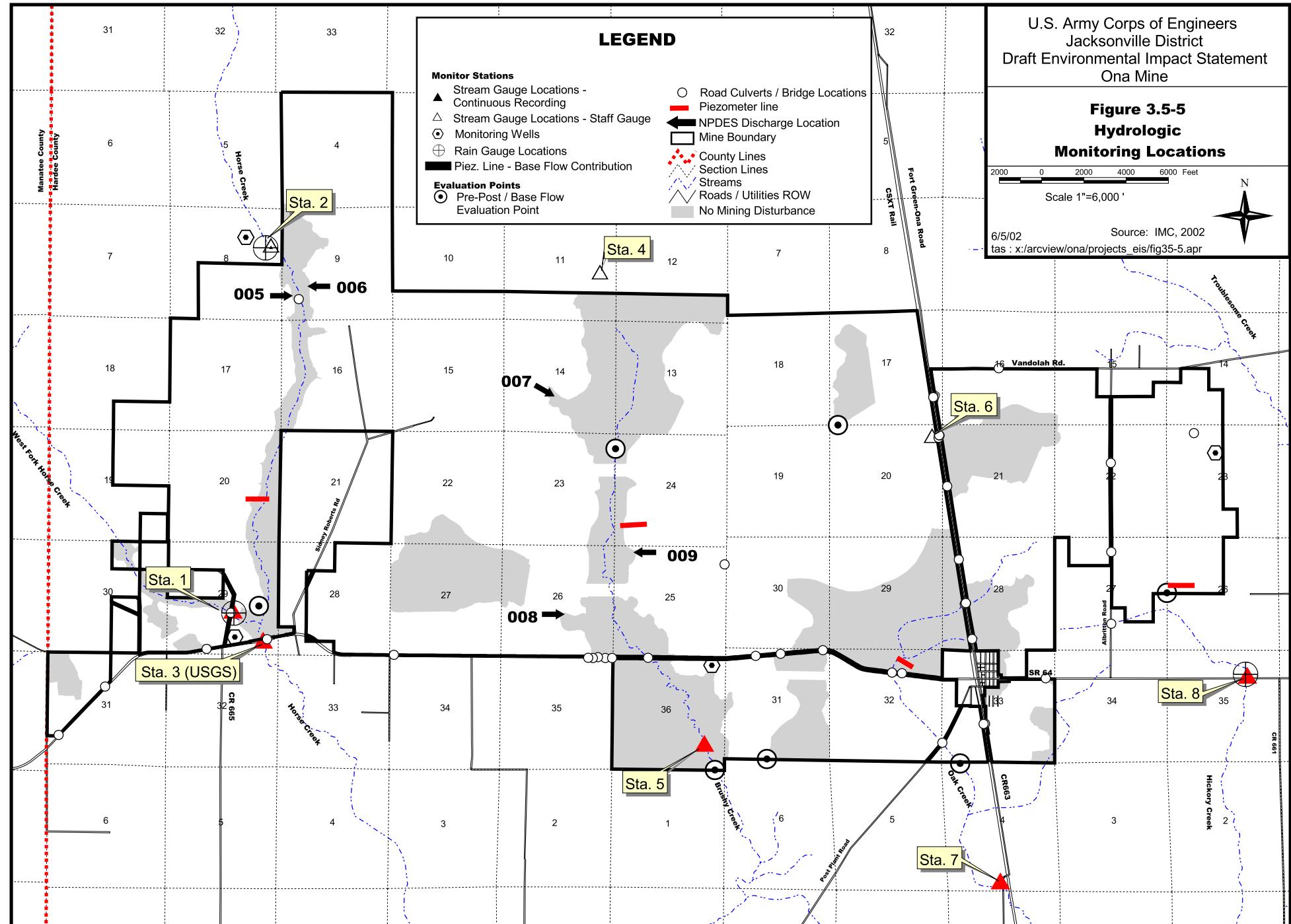
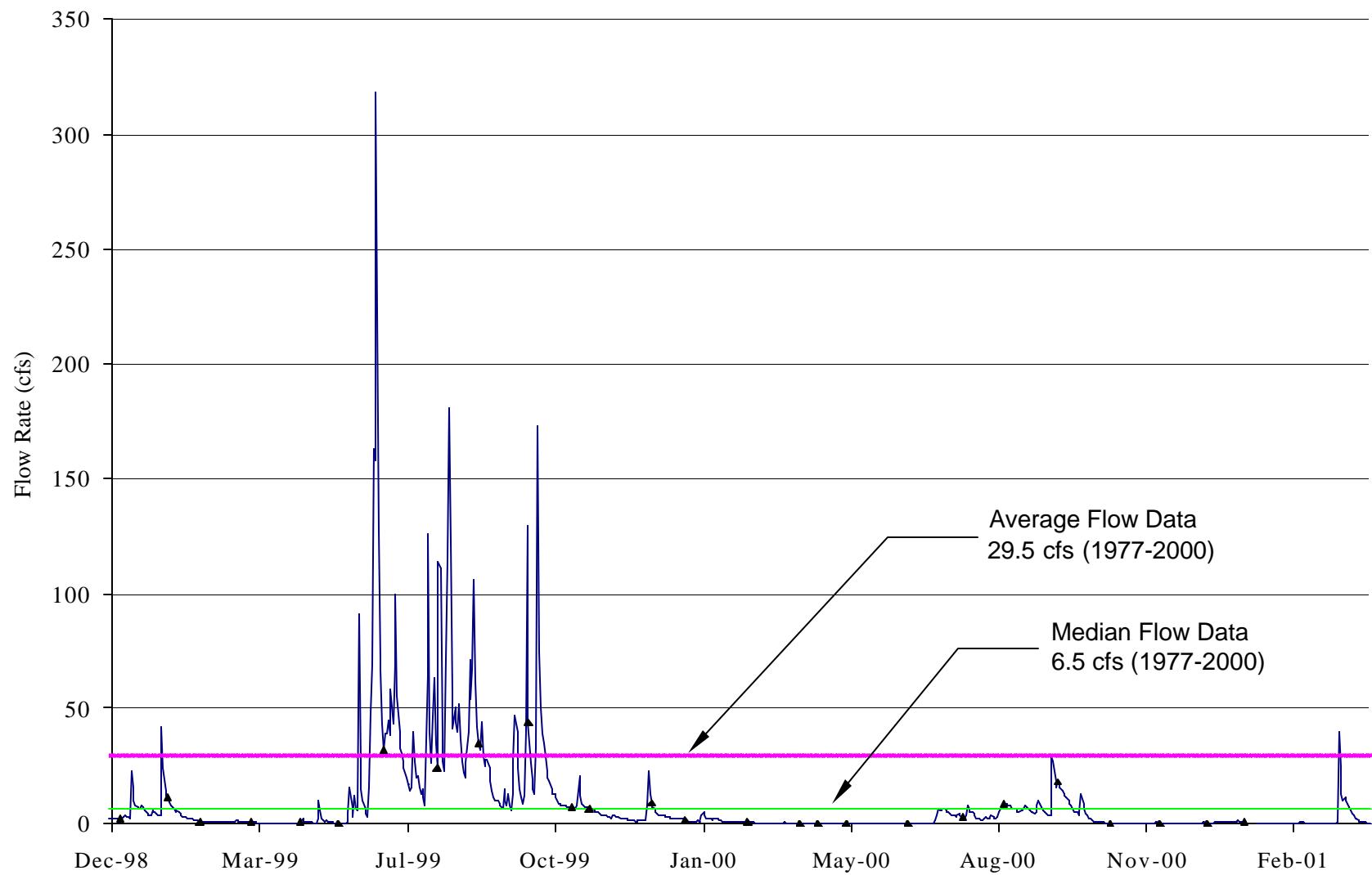


Figure 3.5-6
Average Daily Discharge From Station SW-3 (USGS Station # 02297155)

Sources:
USGS, 2001; Golder, 2002.



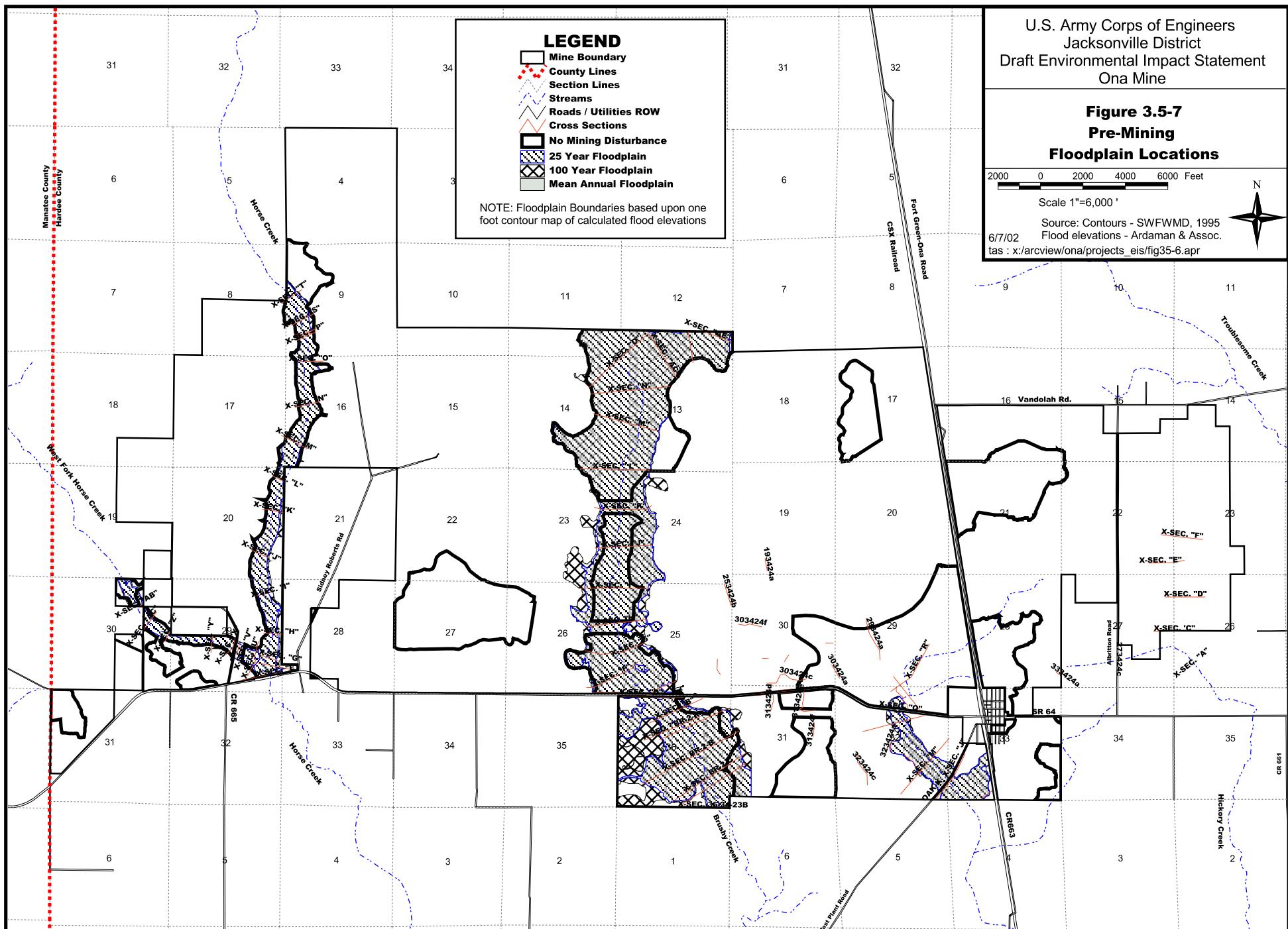
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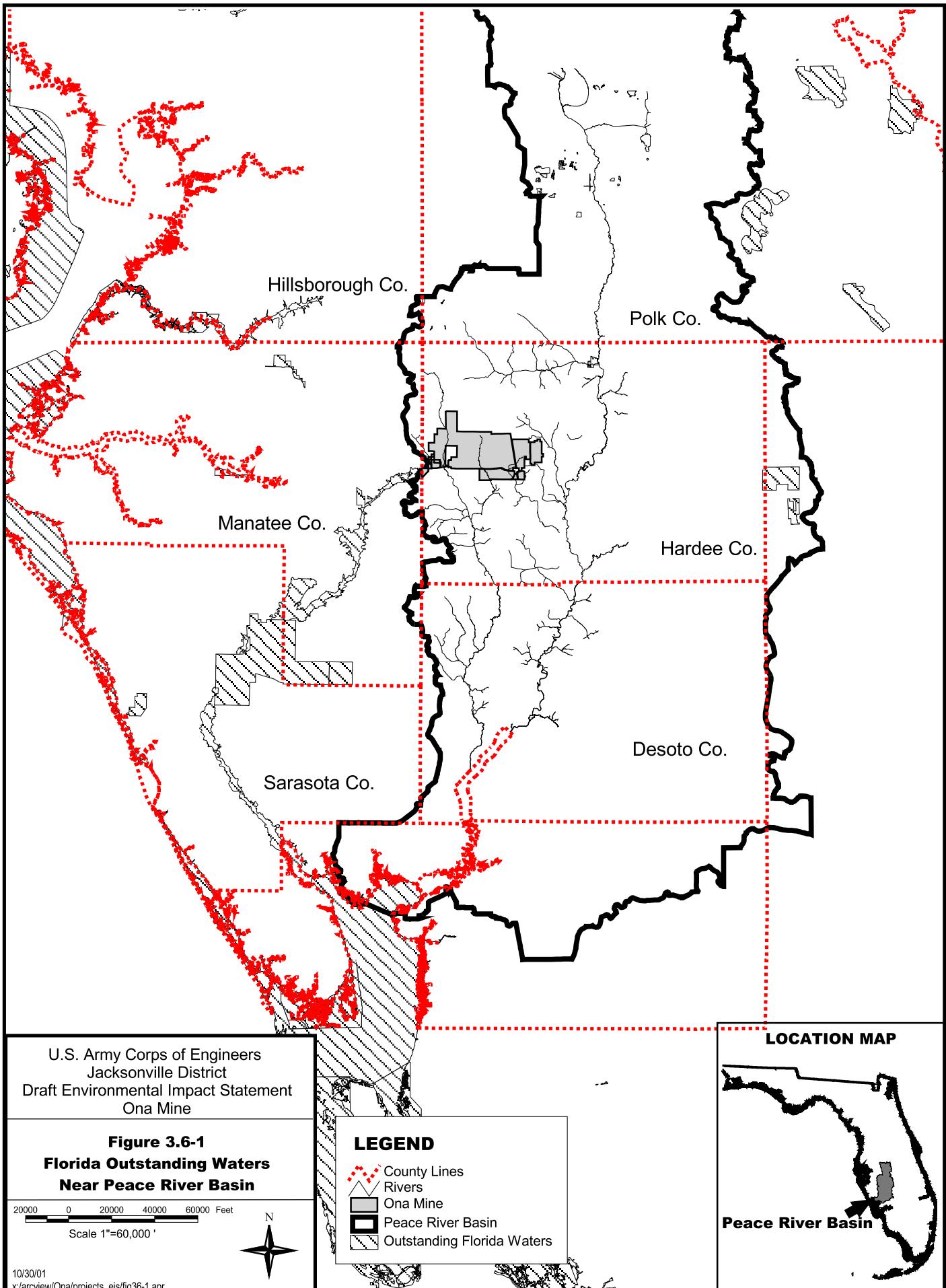
Figure 3.5-7

Pre-Mining

Floodplain Locations

2000 0 2000 4000 6000 Feet
Scale 1"=6,000'
Source: Contours - SWFWMD, 1995
Flood elevations - Ardaman & Assoc.
tas : x:/arcview/ona/projects_eis/fig35-6.apr



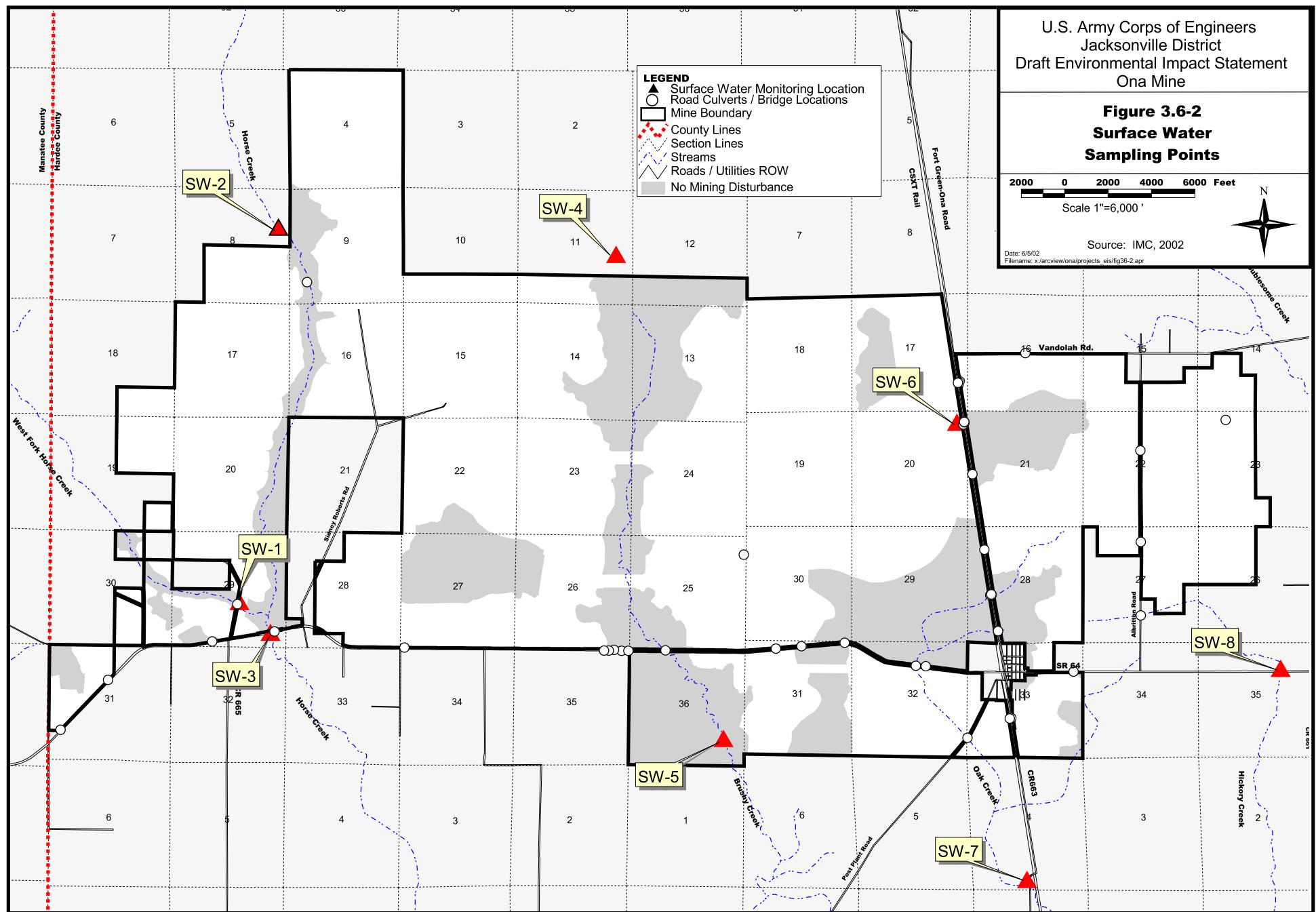


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Figure 3.6-2
Surface Water
Sampling Points

2000 0 2000 4000 6000 Feet

Scale 1"=6,000' N
Source: IMC, 2002
Date: 6/5/02
Filename: x:\arcview\ona\projects_eis\fig36-2.apr



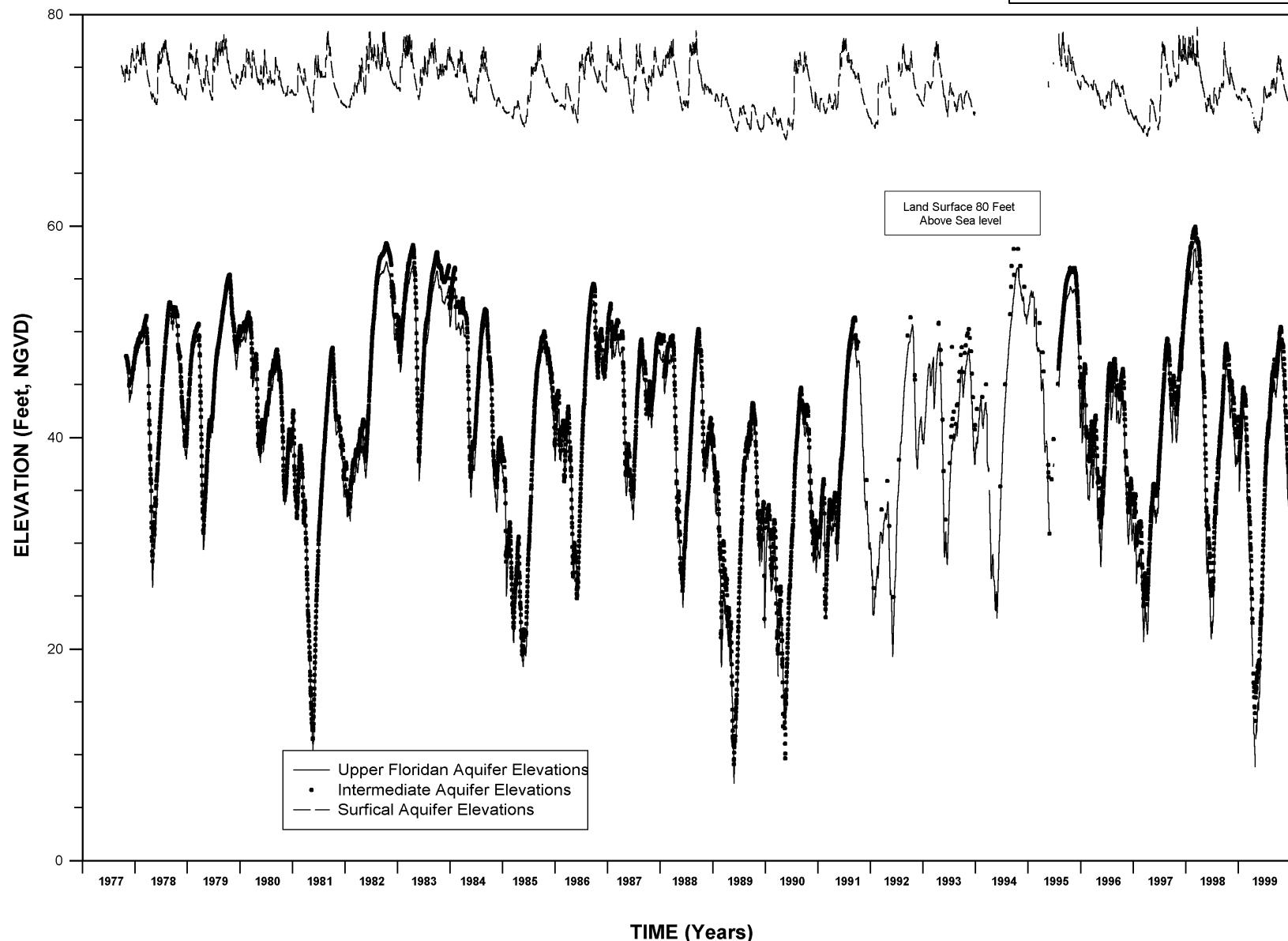
GEOLOGIC AGE	FORMATION	LITHOLOGIC SECTION	MINING TERM	MINERALOGY / GEOLOGY	WATER BEARING PROPERTIES
RECENT	UNNAMED	TOPSOIL		ORGANICS AND SANDS	
PLEISTOCENE	TERRACES	Sand LEACHED ZONE Ore Zone	OVERBURDEN	SAND ALUMINUM PHOSPHATES SAND & CLAYS IRON PHOSPHATES CALCIUM PHOSPHATES SAND CLAY	SURFICIAL AQUIFER SYSTEM
MIocene	UPPER MIDDLE LOWER HAWTHORN GROUP PEACE RIVER FORMATION UNDIFFERENTIATED PEACE RIVER FORMATION UNDIFFERENTIATED ARCADIA FORMATION TAMPA MEMBER ARCADIA FORMATION NOCTAEE MEMBER	BONE VALLEY MEMBER Clay Dolomite and Clay Clay and Dolomite Limestone Clay	MATRIX BED CLAY BED ROCK	CALCIUM PHOSPHATES CLAY DOLOMITE SAND CLAY CALCIUM PHOSPHATES CLAY DOLOMITE SAND LIMESTONE CLAY SAND	INTERMEDIATE AQUIFER SYSTEM FLORIDAN AQUIFER SYSTEM
OLIGOCENE	SUWANNEE LIMESTONE	Limestone		LIMESTONE	

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Figure 3.7-1
Hydrogeologic Framework
of Florida Phosphate District

Figure 3.7-2
ROMP 31 Wells 1977-1999 Water Level Elevations

Source:
IMC, 2002.



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Figure 3.7-3
Well Locations

2000 0 2000 4000 6000 Feet

Scale 1"=6,000'
Source: MCC, 1976;
6/6/02 SWFWMD, 2000; ECT, 2000
tas : x:/arcview/ona/projects/eisfig3-3.apr



LEGEND

- Mine Boundary
- County Lines
- Section Lines
- Streams
- Roads / Utilities ROW
- Well Locations
- No Mining Disturbance

Notes: (1) MCC Wells shown inside mine boundary are shallow piezometers installed by MCC that cannot be located and apparently are destroyed.
(2) WMD wells shown inside mine boundary are according to SWFWMD well inventory.
(3) Ona Wells are wells that IMC has field verified.

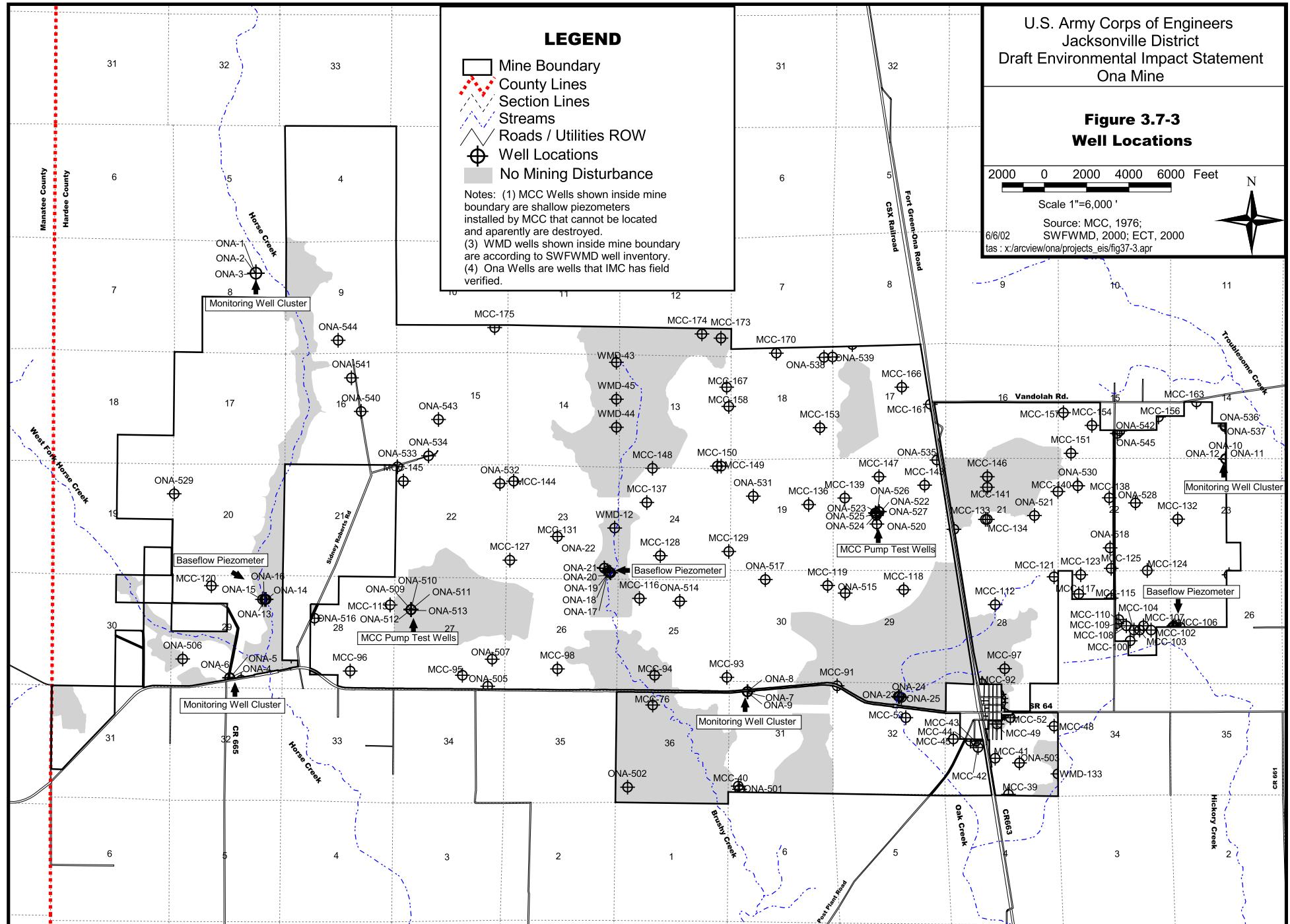


Figure 3.7-4a
Brushy Creek Station North Groundwater Elevations

Source:
IMC, 2002.

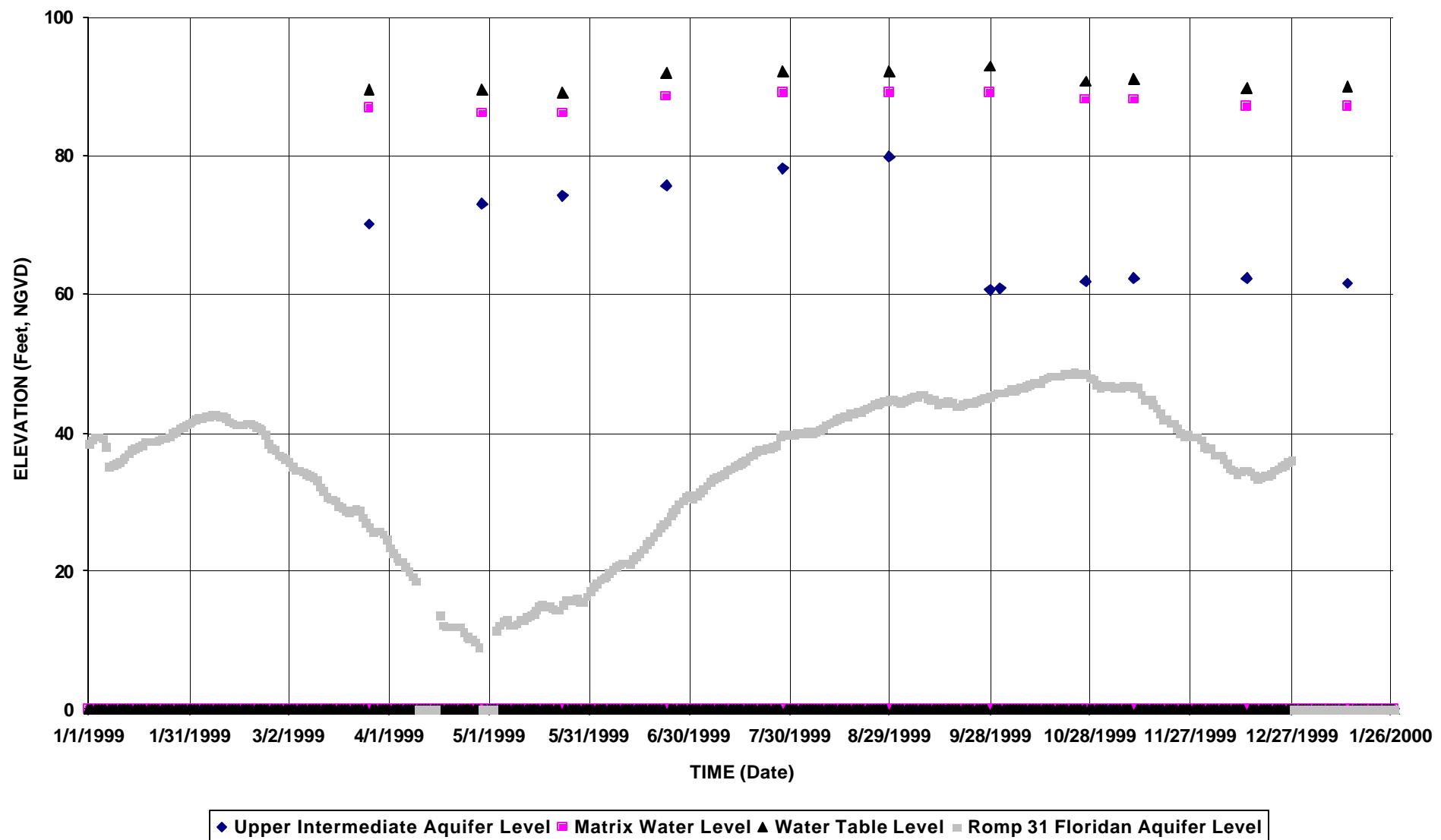


Figure 3.7-4b
Brushy Creek Station South Groundwater Elevations

Source:
IMC, 2002.

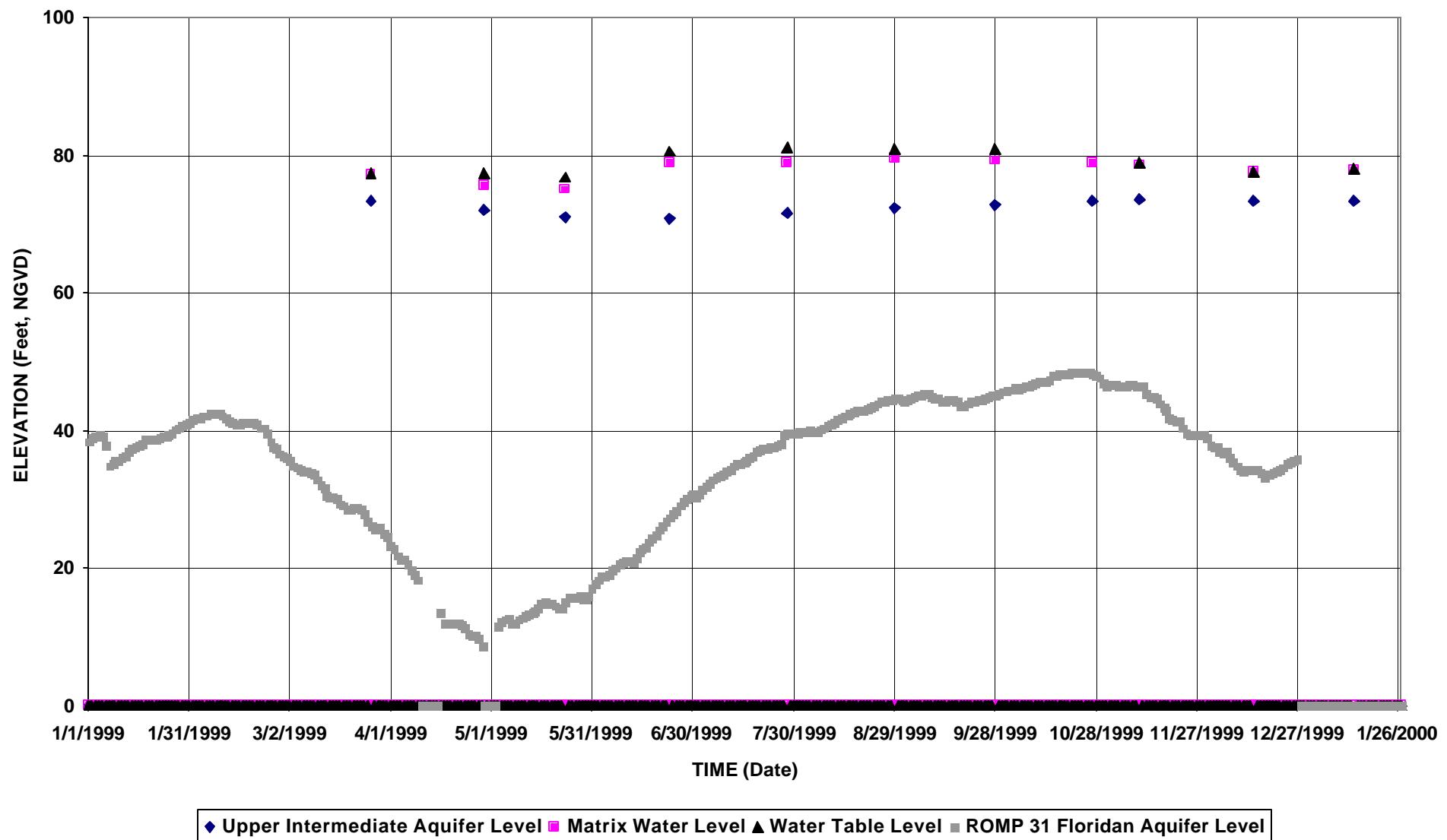


Figure 3.7-4c
Hickory Creek Station South Groundwater Elevations

Source:
IMC, 2002.

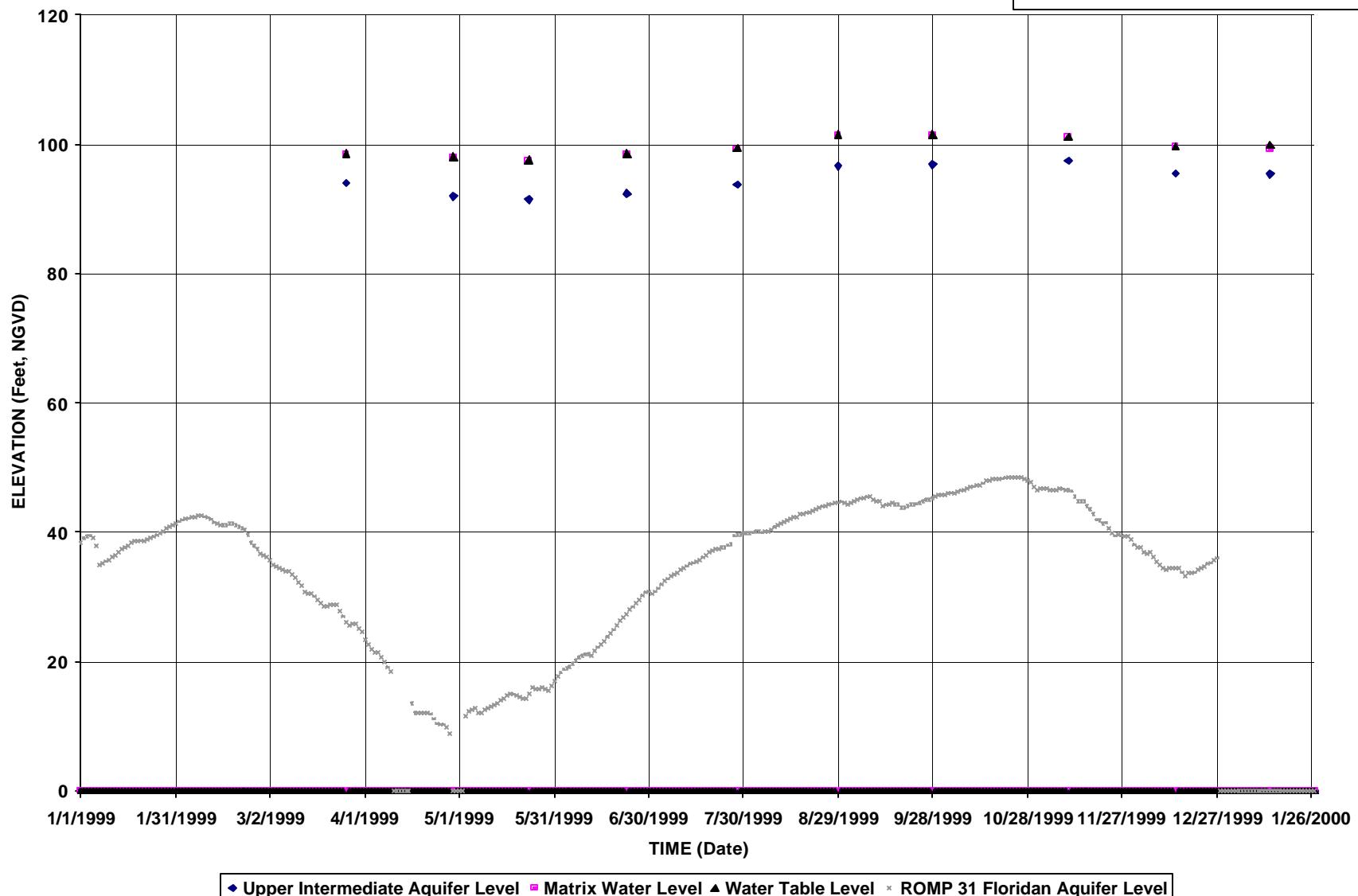
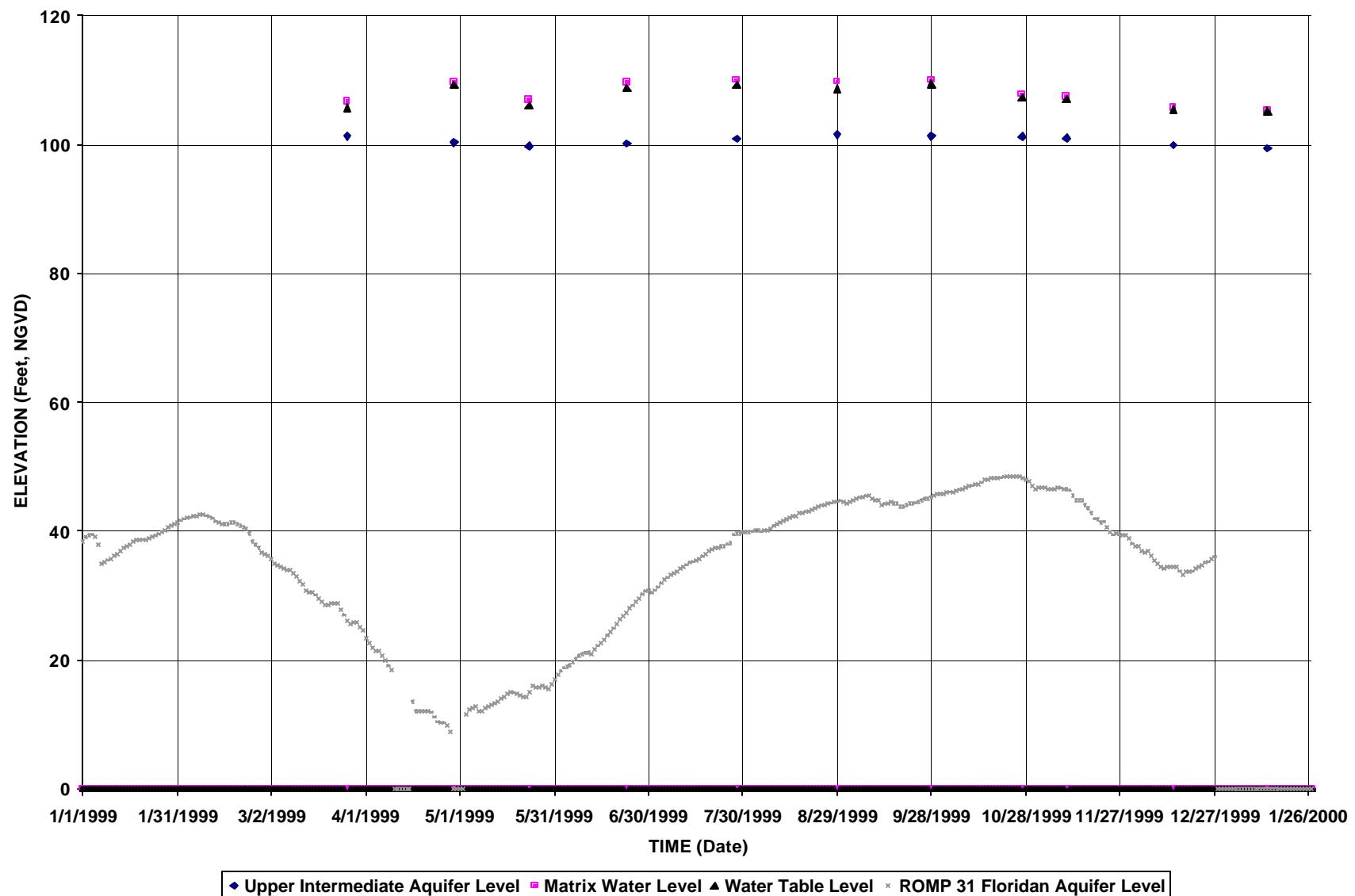


Figure 3.7-4d
Horse Creek Station North Groundwater Elevations

Source:
IMC, 2002.



IMC-Agrico		Well No ONA-1																														
Permit No. 616276-01	Project Name: Ona	Location (1/4 1/4 S,T,R) Ctr of NE, S8, T34S, R23E																														
Geologist or Engineer: L. Duane Dungan, P.G., C.P.G.	Total Depth (ft. bls): 136 Ft bls																															
WELL DIAGRAM	LITHOLOGY																															
Depth (ft. bsls) 0 5 -10 -15 -20 -25 -30 -35 -40 -45 -50	<p>SAND, light gray, fine to medium grained, root fragments</p> <p>SAND, dark brown, fine to medium grained, clear quartz grains</p> <p>SAND, brown, fine to coarse grained, poorly sorted, clear quartz grains, sub-angular to well rounded, slightly clayey</p> <p>SAND, light brown, medium grained, well sorted, slightly clayey</p> <p>SAND, yellow-brown, fine grained, clear quartz grains, rounded, slightly clayey</p> <p>SAND, gray-brown, fine to coarse grained, phosphate pebbles to 5mm, clayey. Phosphate (black and brown) <5%</p> <p>CLAY, greenish-gray, soft, sandy, silt to very fine grained, phosphate <3%</p> <p>SAND, greenish-gray, clayey, silt to fine grained, phosphate 15%, pebbles of phosphate near base</p> <p>CLAY, greenish-gray, soft, slightly sandy, phosphate <5%</p>	<p>Land Surface (ft. ngvd) Measuring Point (ft. ngvd)</p> <p>110.6 113.07</p> <p>DRILLING & CONSTRUCTION</p> <table> <tr> <td>Company: Burnette</td><td>Start: (d/m/y) 2/9/1999</td></tr> <tr> <td>Drilling Method: Mud Rotary</td><td>Time: 9:40</td></tr> <tr> <td>Rig:</td><td>Finish: (d/m/y) 2/12/1999</td></tr> <tr> <td>Bit & Diam: 4" Core, 9 7/8" & 5 3/4" Rock</td><td>Time: 14:35</td></tr> <tr> <td>Fluid Additives: Bentonite</td><td></td></tr> </table> <p>MATERIALS</p> <table> <tr> <td>Casing (diam, material, wall thickness, connection, depth range)</td></tr> <tr> <td>6" Schedule 40 PVC from -80 Ft to Surface</td></tr> <tr> <td>Screen (diam, material, slot size, depth range)</td></tr> <tr> <td>2" PVC 0.010" Slotted Screen from -136 Ft to -126 Ft</td></tr> <tr> <td>Filter pack (size, material, depth range, amount)</td></tr> <tr> <td>30/45 Silica Sand from -136 Ft to -124 Ft</td></tr> <tr> <td>Filter pack cap (size, material, depth range, amount)</td></tr> <tr> <td>Fine Sand Seal from -124 Ft to -122 Ft</td></tr> <tr> <td>Grout (mix ratio, depth range, amount)</td></tr> <tr> <td>1 Bag/10 Gallons, from -122 Ft to Surface, 250 Gallons</td></tr> <tr> <td>Above ground completion (ft riser, cap, protective casing, pad)</td></tr> <tr> <td>5" Lockable Square Steel Casing to 37" above grade, 2' x 2' Concrete Pad, 3' PVC riser with PVC cap.</td></tr> </table> <p>DEVELOPMENT</p> <table> <tr> <td>Method and total time: Developed with air for 1 hour</td></tr> <tr> <td>Water quality and pumping rate: Clear and Silt-free, good flow</td></tr> </table> <p>TESTING / SAMPLING</p> <table> <tr> <td>Static W.L. (NGVD) at Time & Date: Specific Capacity (gpm/ft):</td></tr> <tr> <td>3/26/99 = 101.36</td></tr> <tr> <td>4/29/99 = 100.34</td></tr> <tr> <td>5/23/99 = 99.75</td></tr> <tr> <td>Soil Sampling:</td></tr> <tr> <td>Other:</td></tr> </table>	Company: Burnette	Start: (d/m/y) 2/9/1999	Drilling Method: Mud Rotary	Time: 9:40	Rig:	Finish: (d/m/y) 2/12/1999	Bit & Diam: 4" Core, 9 7/8" & 5 3/4" Rock	Time: 14:35	Fluid Additives: Bentonite		Casing (diam, material, wall thickness, connection, depth range)	6" Schedule 40 PVC from -80 Ft to Surface	Screen (diam, material, slot size, depth range)	2" PVC 0.010" Slotted Screen from -136 Ft to -126 Ft	Filter pack (size, material, depth range, amount)	30/45 Silica Sand from -136 Ft to -124 Ft	Filter pack cap (size, material, depth range, amount)	Fine Sand Seal from -124 Ft to -122 Ft	Grout (mix ratio, depth range, amount)	1 Bag/10 Gallons, from -122 Ft to Surface, 250 Gallons	Above ground completion (ft riser, cap, protective casing, pad)	5" Lockable Square Steel Casing to 37" above grade, 2' x 2' Concrete Pad, 3' PVC riser with PVC cap.	Method and total time: Developed with air for 1 hour	Water quality and pumping rate: Clear and Silt-free, good flow	Static W.L. (NGVD) at Time & Date: Specific Capacity (gpm/ft):	3/26/99 = 101.36	4/29/99 = 100.34	5/23/99 = 99.75	Soil Sampling:	Other:
Company: Burnette	Start: (d/m/y) 2/9/1999																															
Drilling Method: Mud Rotary	Time: 9:40																															
Rig:	Finish: (d/m/y) 2/12/1999																															
Bit & Diam: 4" Core, 9 7/8" & 5 3/4" Rock	Time: 14:35																															
Fluid Additives: Bentonite																																
Casing (diam, material, wall thickness, connection, depth range)																																
6" Schedule 40 PVC from -80 Ft to Surface																																
Screen (diam, material, slot size, depth range)																																
2" PVC 0.010" Slotted Screen from -136 Ft to -126 Ft																																
Filter pack (size, material, depth range, amount)																																
30/45 Silica Sand from -136 Ft to -124 Ft																																
Filter pack cap (size, material, depth range, amount)																																
Fine Sand Seal from -124 Ft to -122 Ft																																
Grout (mix ratio, depth range, amount)																																
1 Bag/10 Gallons, from -122 Ft to Surface, 250 Gallons																																
Above ground completion (ft riser, cap, protective casing, pad)																																
5" Lockable Square Steel Casing to 37" above grade, 2' x 2' Concrete Pad, 3' PVC riser with PVC cap.																																
Method and total time: Developed with air for 1 hour																																
Water quality and pumping rate: Clear and Silt-free, good flow																																
Static W.L. (NGVD) at Time & Date: Specific Capacity (gpm/ft):																																
3/26/99 = 101.36																																
4/29/99 = 100.34																																
5/23/99 = 99.75																																
Soil Sampling:																																
Other:																																

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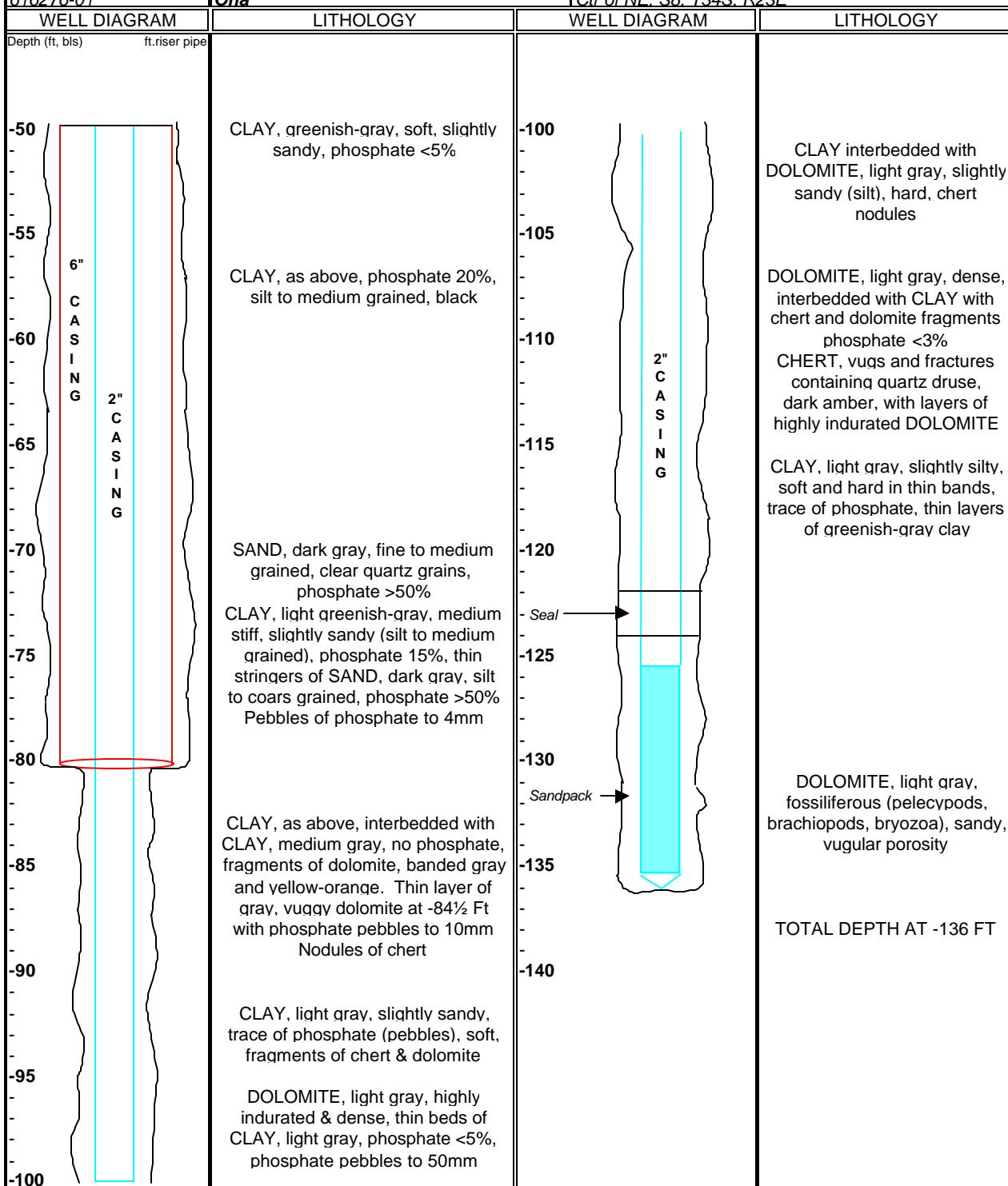
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Ona Mine

Figure 3.7-5

Well Construction Information for Ona - 1 (Page 1 of 2)

Source:
IMC, 2002.

IMC-Agrico

Well No: **ONA-1**page: 2Permit No.
616276-01Project Name:
OnaLocation (1/4 1/4 S,T,R)
Ctr of NE, S8, T34S, R23E

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Figure 3.7-5

Well Construction Information for Ona - 1 (Page 2 of 2)

Source:
IMC, 2002.

IMC-Agrico		Well No ONA-4
Permit No. 616313-01	Project Name: Ona	Location (1/4 1/4 S,T,R) SW, SE, S29, T34S, R23E
WELL DIAGRAM	Geologist or Engineer: <i>L. Duane Dungan, P.G., C.P.G.</i>	Total Depth (ft. b/s): 137 Ft b/s
Depth (ft. b/s)	LITHOLOGY	Land Surface (ft. ngvd) Measuring Point (ft. ngvd) 96.47 94.0
0	concrete pad	
5	SAND, light gray, fine grained, clear quartz grains, rounded to sub-rounded, well sorted, HARDPAN at -2½ Ft	
6"	SAND, tan, fine grained, clear quartz grains, rounded to sub-rounded, trace phosphate	
C	SAND, light gray, very fine to fine grained, slightly clayey (increasing with depth), trace phosphate	
A	CLAY, greenish-gray, medium stiff, very sandy, fine to medium grained, trace phosphate	
S	CLAY, greenish-gray, soft, sandy, phosphate 3 - 5%	
I		
N		
G	CLAY, light gray/yellow-orange, medium stiff, slightly sandy, phosphate 10% (black & brown, fine to medium grained)	
10		
15		
20		
25		
30		
35		
40	CLAY, as above	
45		
50		
DRILLING & CONSTRUCTION		
Company: <i>Burnette</i>	Start: (d/m/y) 2/15/1999	
Drilling Method: <i>Mud Rotary</i>	Time: 8:05	
Rig:	Finish: (d/m/y) 2/19/1999	
Bit & Diam: <i>4" Core, 9 7/8" & 5 3/4" Rock</i>	Time: Bentonite 14:30	
Fluid Additives: <i>Bentonite</i>		
MATERIALS		
Casing (diam, material, wall thickness, connection, depth range)		
6" Schedule 40 PVC from -90 Ft to Surface		
2" Schedule 40 PVC from -127 Ft to +3 Ft		
Screen (diam, material, slot size, depth range)		
2" PVC 0.010" Slotted Screen from -137 Ft to -127 Ft		
Filter pack (size, material, depth range, amount)		
30/45 Silica Sand from -137 Ft to -125 Ft		
Filter pack cap (size, material, depth range, amount)		
Fine Sand Seal from -125 Ft to -123 Ft		
Grout (mix ratio, depth range, amount)		
1 Bag/10 Gallons from -90 Ft to Surface, 175 gallons		
1 Bag/10 Gallons from -123 Ft to Surface, 250 gallons		
Above ground completion (ft.riser, cap, protective casing, pad)		
5" Lockable Square Steel Casing to 37" above grade, 2' x 2' Concrete Pad, 3' PVC riser with PVC cap.		
DEVELOPMENT		
Method and total time: <i>Developed with air for 1 hour</i>		
Water quality and pumping rate: <i>Clear and Silt-free, good flow</i>		
TESTING / SAMPLING		
Static W.L. (NGVD) at Time & Date: Specific Capacity (gpm/ft):		
3/26/99 = 70.19		
4/29/99 = 73.11		
5/23/99 = 74.32		
<u>Soil Sampling:</u>		
Other:		

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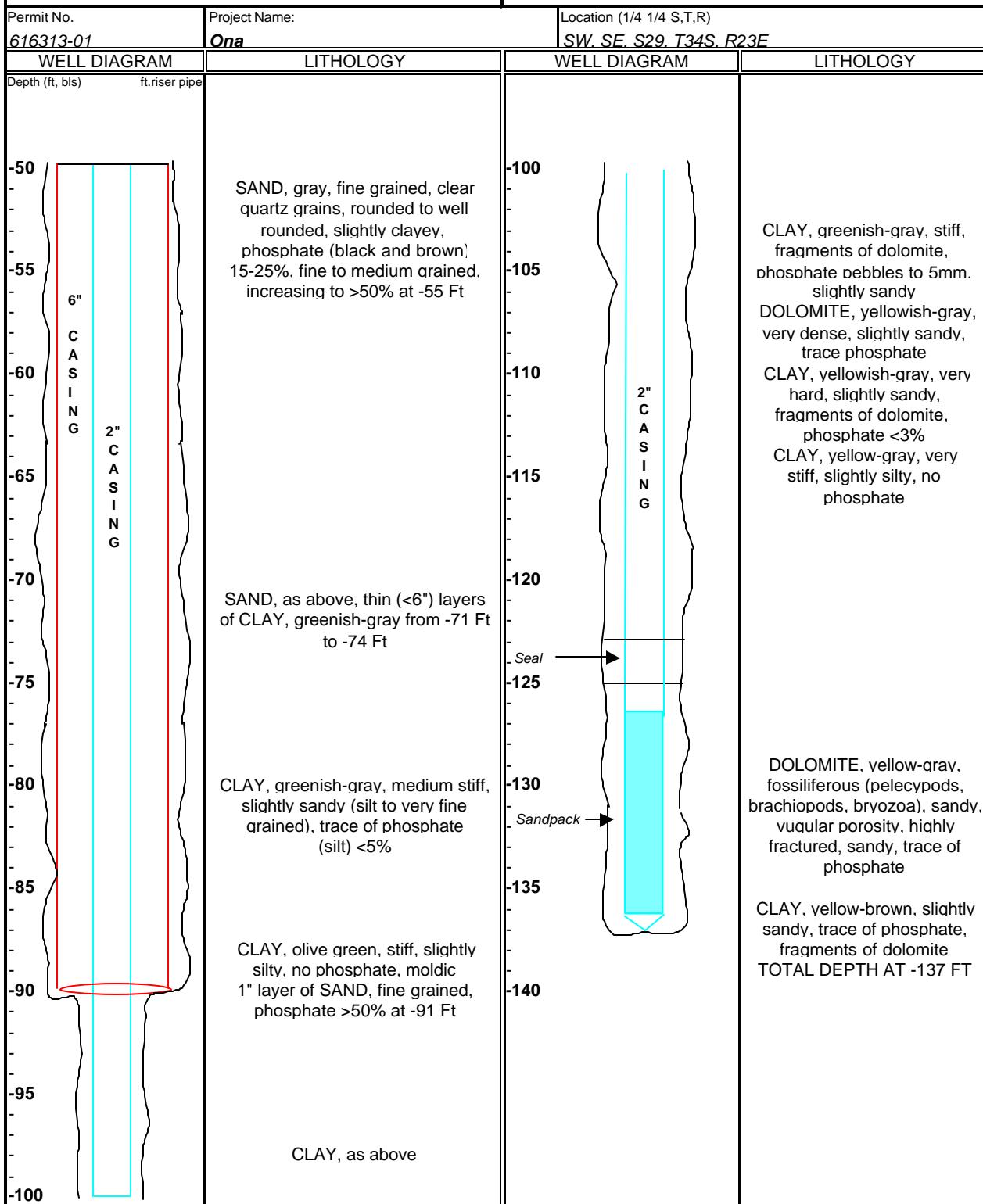
Figure 3.7-6

Well Construction Information for Ona - 4 (Page 1 of 2)

Source:
IMC, 2002.

IMC-Agrico

Well No: ONA-4

page: 2

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Jacksonville District

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Ona Mine

Figure 3.7-6

Well Construction Information for Ona - 4 (Page 2 of 2)

Source:
IMC, 2002.

IMC-Agrico		Well No ONA-7
Permit No. 616279-01	Project Name: Ona	Location (1/4 1/4 S.T.R) NW, NW, S31, T34S, R24E
WELL DIAGRAM	Geologist or Engineer: L. Duane Dungan, P.G., C.P.G.	Total Depth (ft. bbls): 107 Ft bbls
Depth (ft, bbls)	LITHOLOGY	Land Surface (ft. ngvd) Measuring Point (ft. ngvd)
0	SAND, light gray, fine grained, clear quartz grains, well sorted SAND, dark brown (HARDPAN) silt to fine grained	81.7 84.04
5	SAND, brown, very fine to medium grained, clear quartz grains, subrounded to rounded, slightly clayey	
10	SAND, gray, fine grained, very clayey	
15	SAND, green-gray, fine grained, very clayey	
20	CLAY, green-gray, very stiff, sandy, trace of phosphate (<3%)	
25	CLAY, light gray, soft, sandy, clear quartz grains well rounded, very fine to medium grained, trace of phosphate (<3%), fragments of sandstone and dolomite	
30	CLAY, yellow-orange, soft, fragments of chert & dolomite, sandy, phosphate (10%), fine to coarse grained. Variegated with gray to yellow-orange in bands. Phosphate pebbles to 24 mm.	
35	CLAY, green-gray, bands of olive gray, soft, slightly silty, no phosphate	
40	CLAY, green-gray, soft, slightly sandy, fine to coarse grained, pebbles of phosphate & dolomite	
45	CLAY, dark gray, soft, slightly sandy, silt to medium grained.	
50		
DRILLING & CONSTRUCTION		
Company: Burnette	Start: (d/m/y) 2/17/1999	
Drilling Method: Mud Rotary	Time: 7:54	
Rig:	Finish: (d/m/y) 2/24/1999	
Bit & Diam: 4" Core, 9 7/8" & 5 3/4" Rock	Time: 15:30	
Fluid Additives: Bentonite		
MATERIALS		
Casing (diam, material, wall thickness, connection, depth range)		
6" Schedule 40 PVC from -89 Ft to Surface		
2" Schedule 40 PVC from -97 Ft to + 3 Ft		
Screen (diam, material, slot size, depth range)		
2" PVC 0.010" Slotted Screen from -107 Ft to -97 Ft		
Filter pack (size, material, depth range, amount)		
30/45 Silica Sand from -107 Ft to -95 Ft		
Filter pack cap (size, material, depth range, amount)		
Fine Sand Seal from - 95 Ft to -93 Ft		
Grout (mix ratio, depth range, amount)		
1 Bag/10 Gallons from -89 Ft to Surface, 180 Gallons		
1 Bag/10 Gallons from -93 Ft to Surface, 180 Gallons		
Above ground completion (ft.riser, cap, protective casing, pad)		
5" Lockable Square Steel Casing to 37" above grade, 2' x 2' Concrete Pad, 3' PVC riser with PVC cap.		
DEV/FI OPMENIT		
Method and total time: Developed with air for 1 hour		
Water quality and pumping rate: Clear and Silt-free, good flow		
TESTING / SAMPLING		
Static W.L. (NGVD) at Time & Date: Specific Capacity (gpm/ft):		
3/26/99 = 73.38		
4/29/99 = 72.23		
5/23/99 = 70.98		
Soil Sampling:		
Other:		

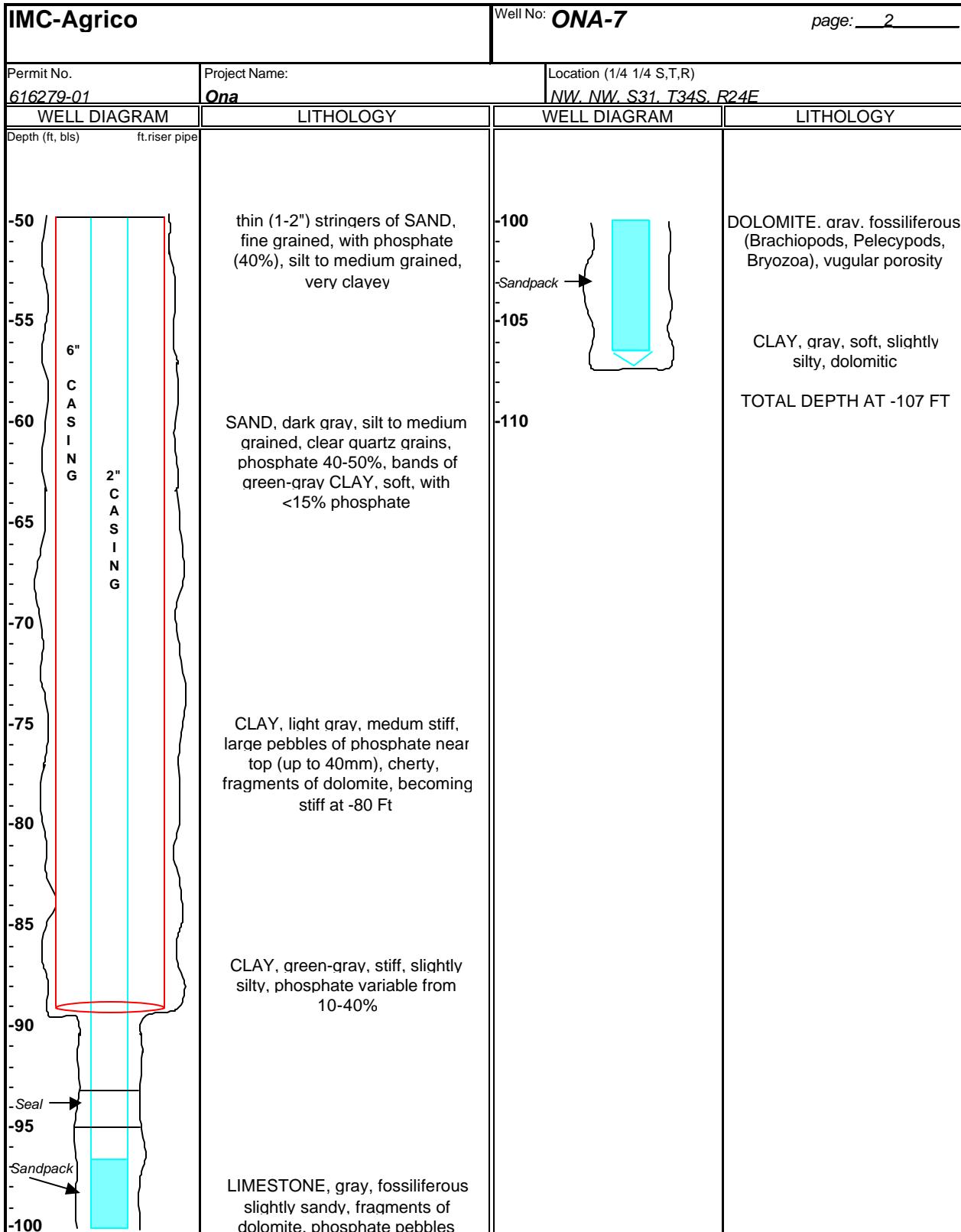
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Ona Mine

Figure 3.7-7

Well Construction Information for Ona - 7 (Page 1 of 2)

Source:
IMC, 2002.



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Jacksonville District

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Ona Mine

Figure 3.7-7

Well Construction Information for Ona - 7 (Page 2 of 2)

IMC-Agrico		Well No ONA-10
Permit No. 616303-01	Project Name: Ona	Location (1/4 1/4 S,T,R) SE, SW, S14, T34S, R24E
WELL DIAGRAM	Geologist or Engineer: <i>L. Duane Dungan, P.G., C.P.G.</i>	Total Depth (ft. bbls): 90 Ft bbls
Depth (ft. bbls)	LITHOLOGY	
0		
-5	SAND, gray, fine grained, clear quartz grains, sub-angular to sub-rounded, trace of phosphate HARDPAN, sand, dark brown, fine grained to silty	
-10	SAND, dark brown, fine to very fine grained, slightly clayey CLAY, light gray, sandy, fine to medium grained, trace of phosphate (black silt), pebbles of sandstone, fragments of limestone to 25mm	
-15	SAND, light gray, fine to medium grained, slightly clayey, trace of phosphate (silt) CLAY, light gray, very soft, slightly sandy, trace of phosphate	
-20	SAND, gray, coarse grained, slightly clayey, limestone & phosphate pebbles to 5mm SAND, gray, fine to medium grained, very clayey, phosphate <5% (silt to medium grained, brown & black)	
-25	CLAY, green-gray, soft, sandy, brown & black phosphate 7% SAND, green-gray, slightly clayey, silt to very fine grained, phosphate 15%	
-30		
-35		
-40		
-45		
-50	SAND, dark green-gray, very clayey silt to coarse grained, pebbles of phosphate & dolomite to 5mm	
DRILLING & CONSTRUCTION		
Company: <i>Burnette</i>	Start: (d/m/y) 2/22/1999	
Drilling Method: <i>Mud Rotary</i>	Time: 9:00	
Rig:	Finish: (d/m/y) 2/24/1999	
Bit & Diam: <i>4" Core, 9 7/8", 5 3/4"</i>	Time: 13:30	
Fluid Additives: <i>Bentonite</i>		
MATERIALS		
Casing (diam, material, wall thickness, connection, depth range)	<i>6" Schedule 40 PVC from -75 Ft to Surface</i>	
	<i>2" Schedule 40 PVC from -80 Ft to Surface</i>	
Screen (diam, material, slot size, depth range)	<i>2" Sch. 40 PVC 0.010" Slotted Screen from -90 Ft to -80 Ft</i>	
Filter pack (size, material, depth range, amount)	<i>30/45 Silica Sand from -90 Ft to -78 Ft</i>	
Fine sand seal from -78 Ft to -76 Ft		
Grout (mix ratio, depth range, amount)	<i>1 Bag/10 Gallons, -75 Ft to Surface, 150 gallons</i>	
	<i>1 Bag/10 Gallons, -76 Ft to Surface, 155 gallons</i>	
Above ground completion (ft riser, cap, protective casing, pad)	<i>5' steel protective casing with locking lid, 37" above grade in 2' x 2' concrete pad with corner posts.</i>	
DEVELOPMENT		
Method and total time:	<i>Developed with air for 1 hour</i>	
Water quality and pumping rate:	<i>Water clear and silt free</i>	
Soil Sampling:		
Other:		
TESTING / SAMPLING		
Static W.L. (NGVD) at Time & Date:	<i>Specific Capacity (gpm/ft):</i>	
3/26/99 = 93.96		
4/29/99 = 91.99		
5/23/99 = 91.47		

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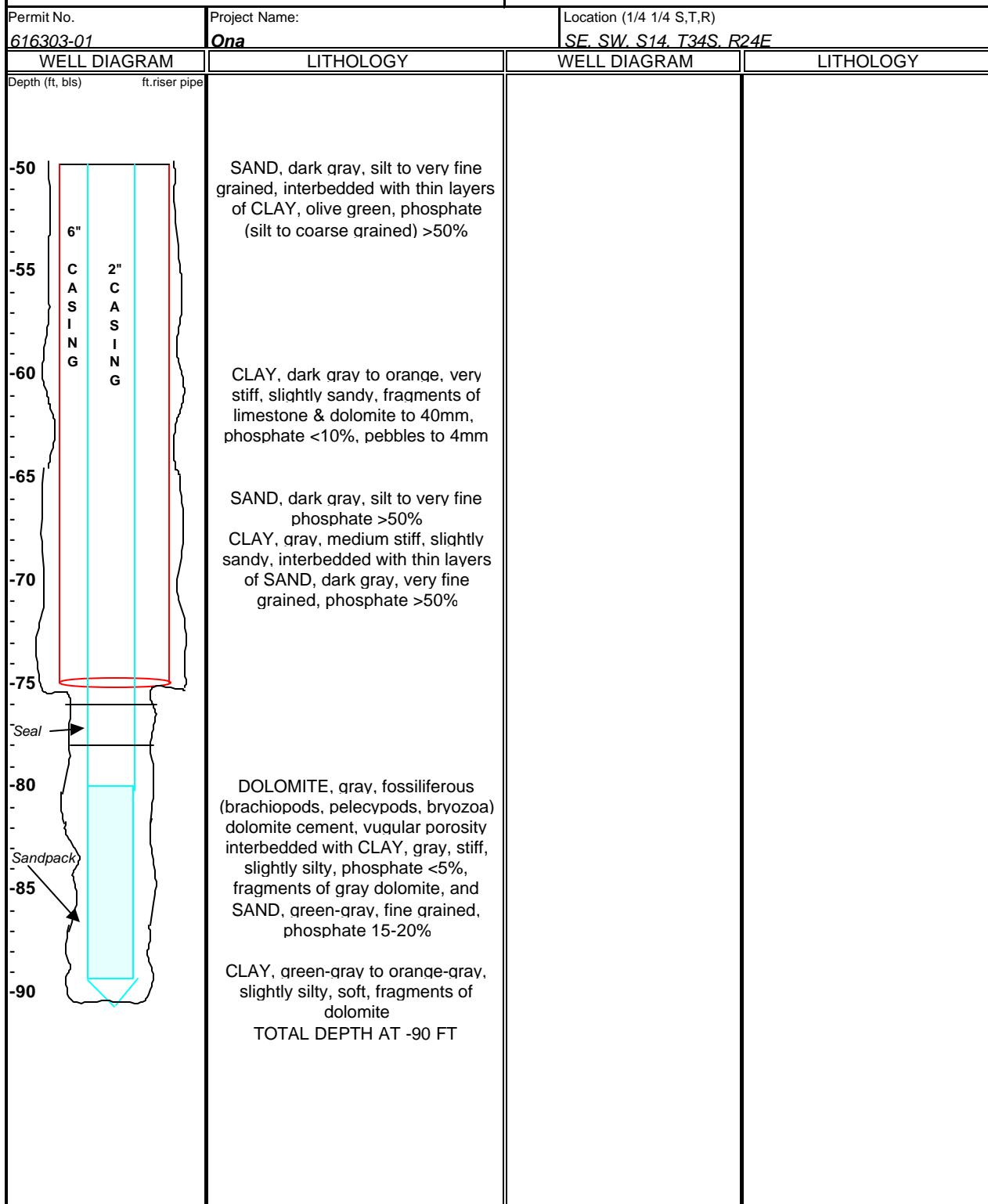
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Figure 3.7-8

Well Construction Information for Ona - 10 (Page 1 of 2)

Source:
IMC, 2002.

IMC-Agrico

Well No: **ONA-10**page: 2

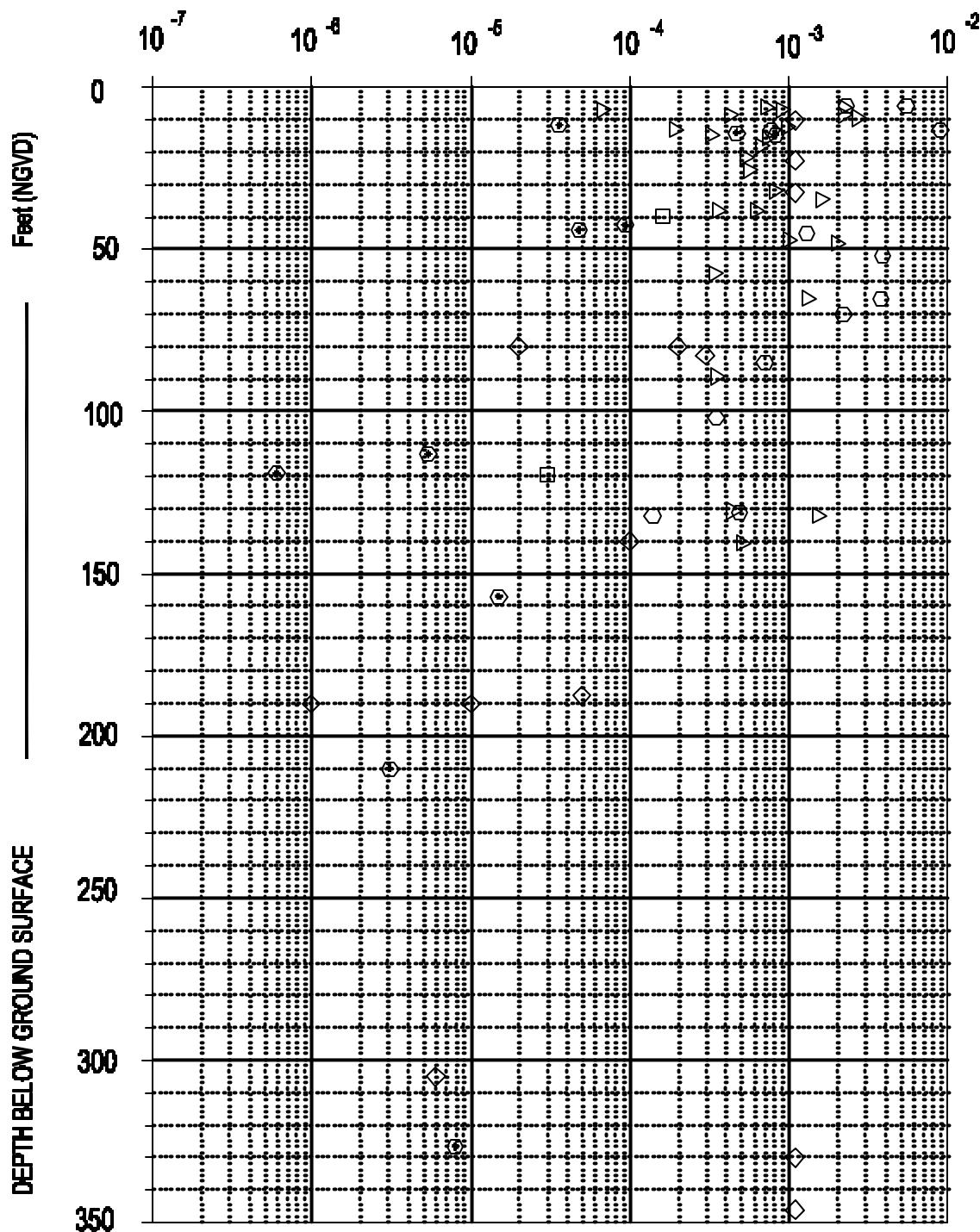
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Figure 3.7-8

Well Construction Information for Ona - 10 (Page 2 of 2)

Source:
IMC, 2002.

HORIZONTAL HYDRAULIC CONDUCTIVITY, (cm/sec)



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Figure 3.7-9

Summary of In-Situ Permeability Test Results -
Horizontal Hydraulic Conductivity Data vs. Depth

Source:
IMC, 2002.

- FARMLAND ORIGINAL SITE
- FARMLAND ALTERNATE SITE
- ◇ SOUTH FORT GREEN CLUSTERS
- IMC PHOSPHATES ONA SITE
- ▽ FARMLAND MINE SITE

Figure 3.7-10a
Brushy Creek Section Groundwater Levels

Source:
IMC, 2002.

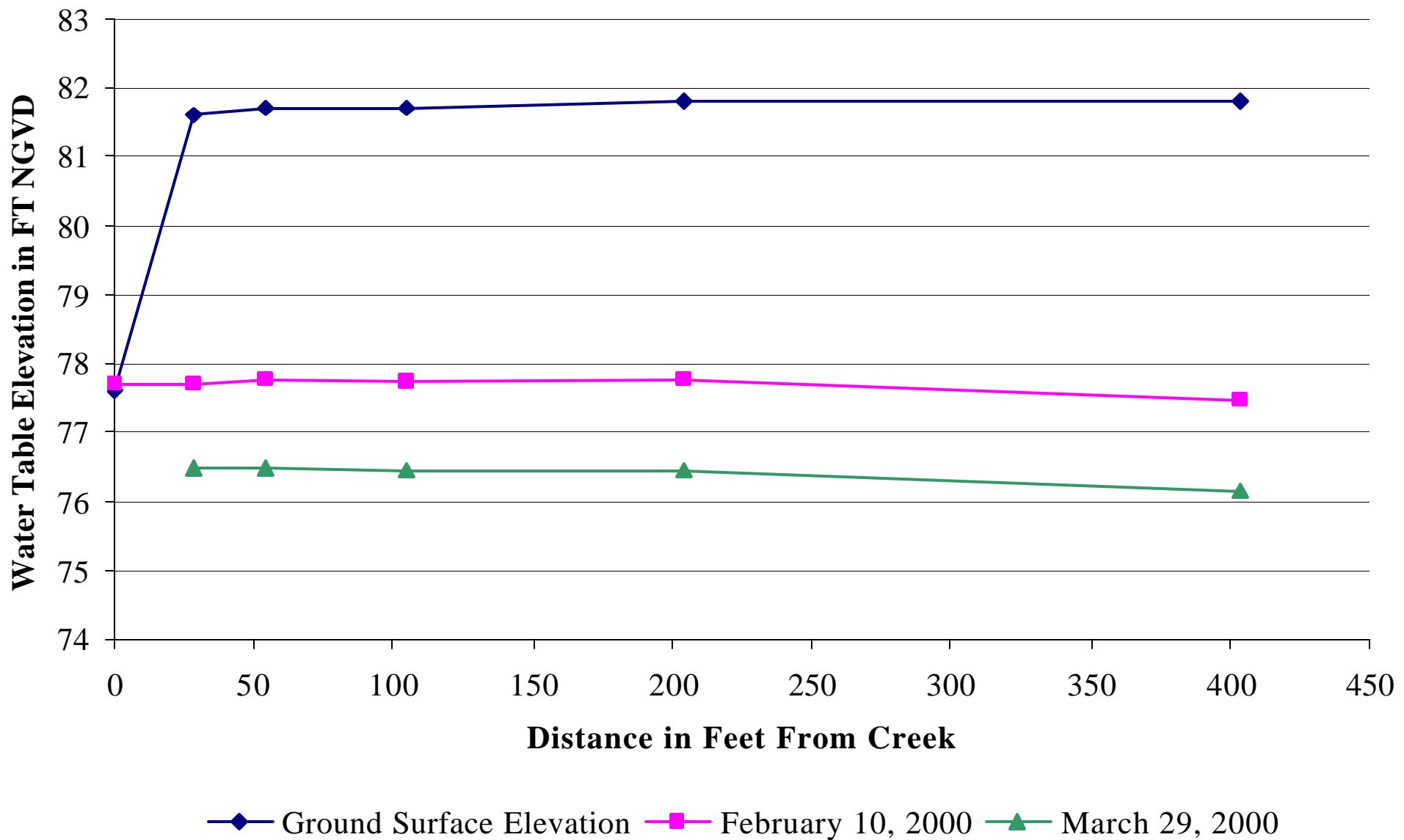


Figure 3.7-10b
Hickory Creek Section Groundwater Levels

Source:
IMC, 2002.

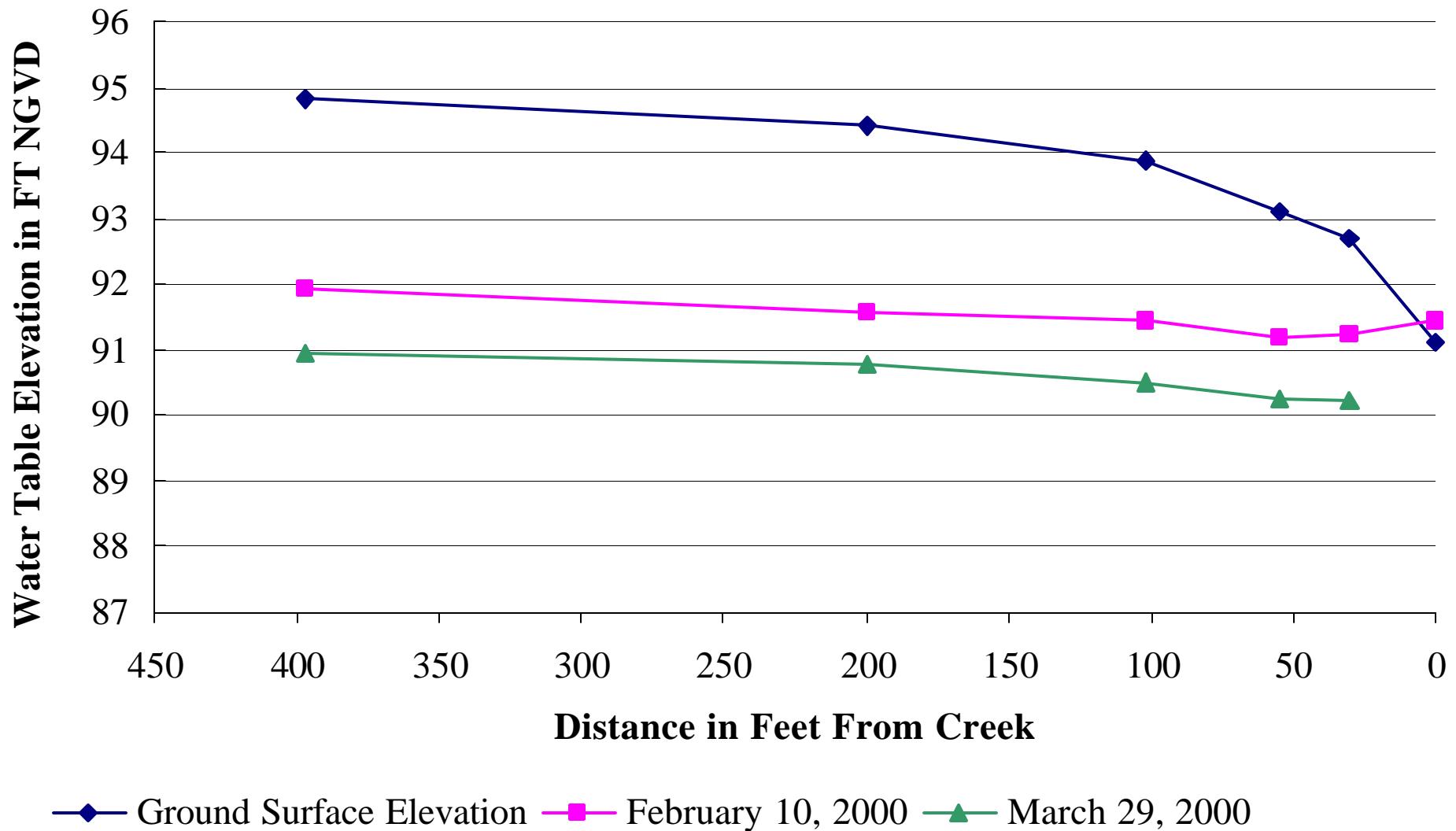


Figure 3.7-10c
Horse Creek Section Groundwater Levels

Source:
IMC, 2002.

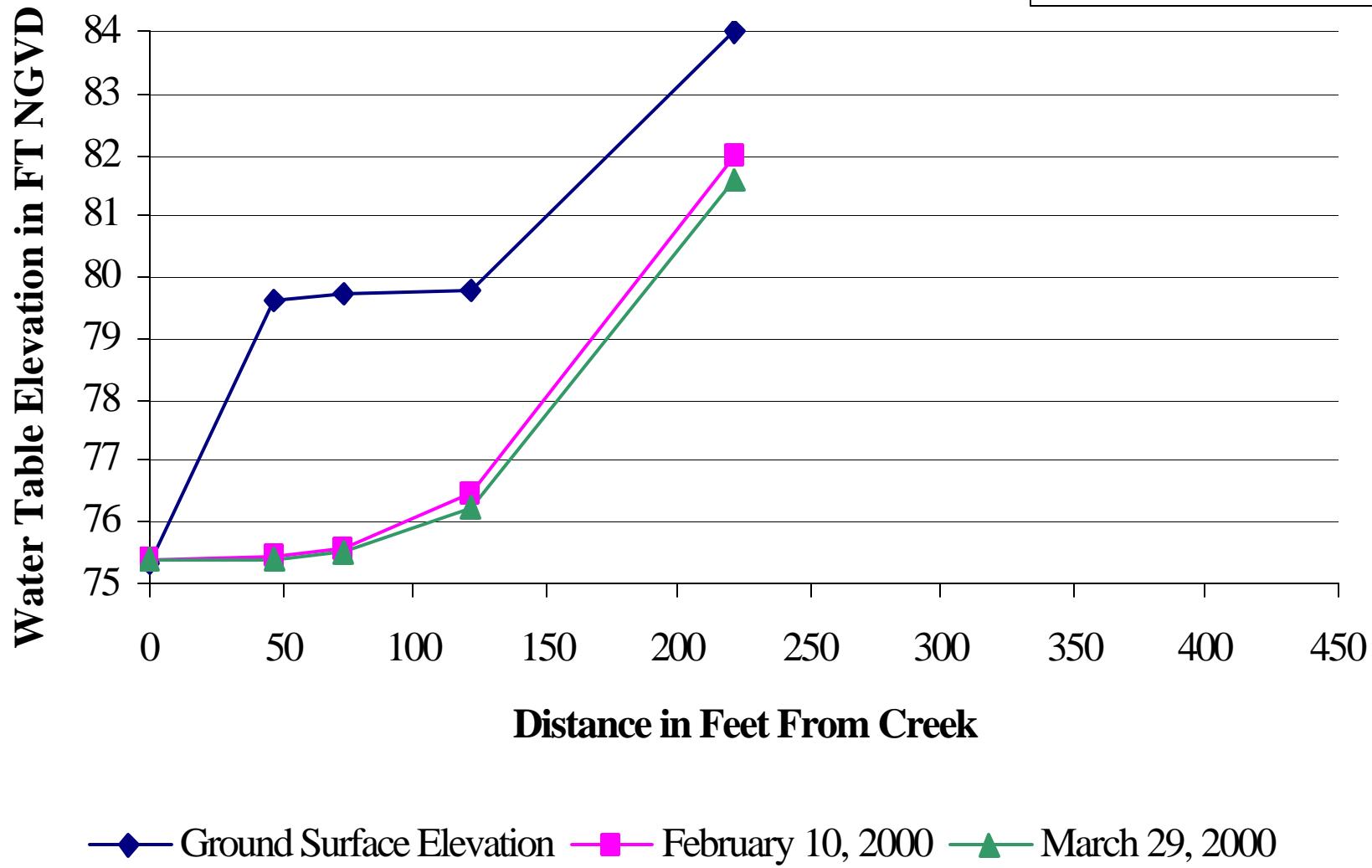


Figure 3.7-10d
Oak Creek Section Groundwater Levels

Source:
IMC, 2002.

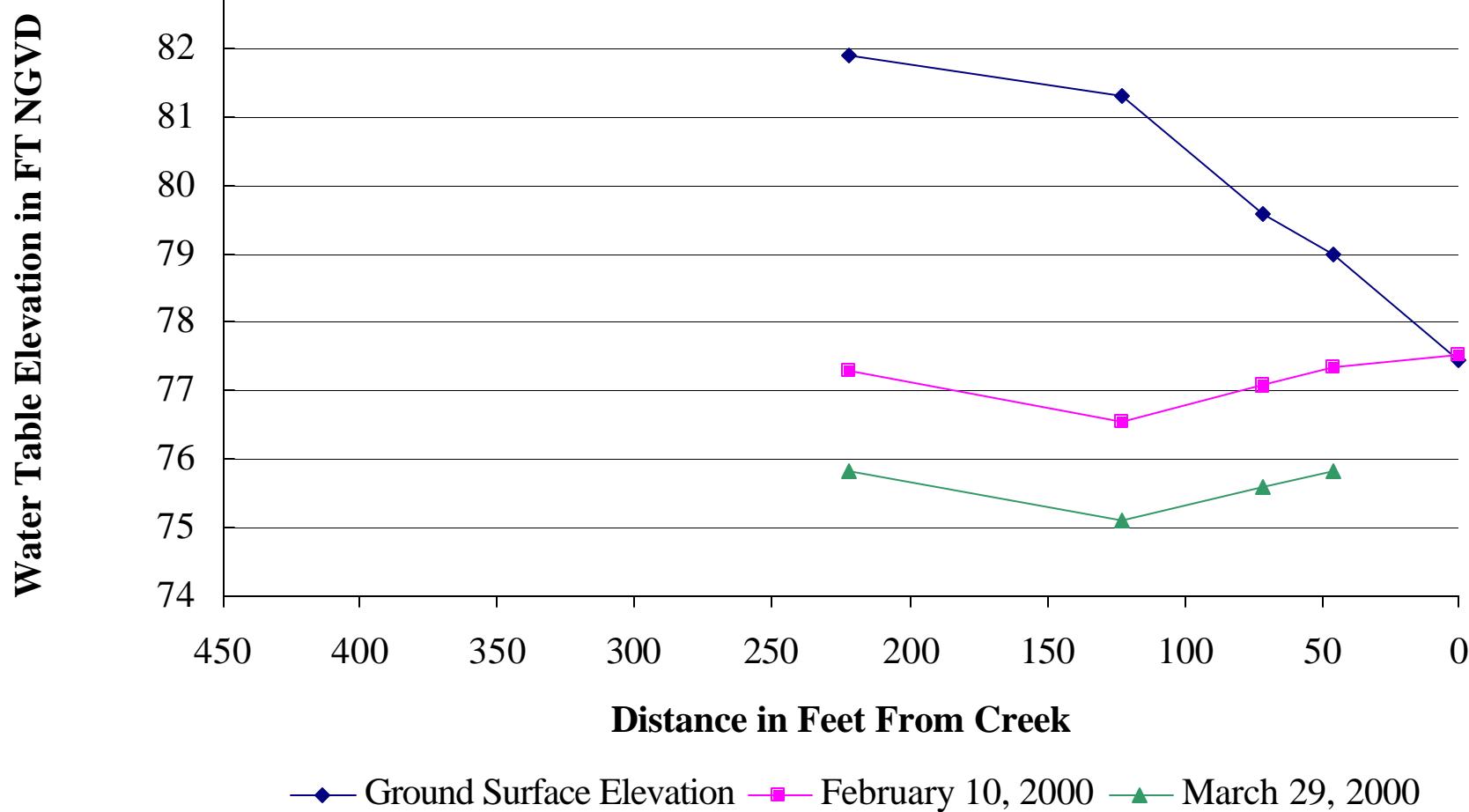
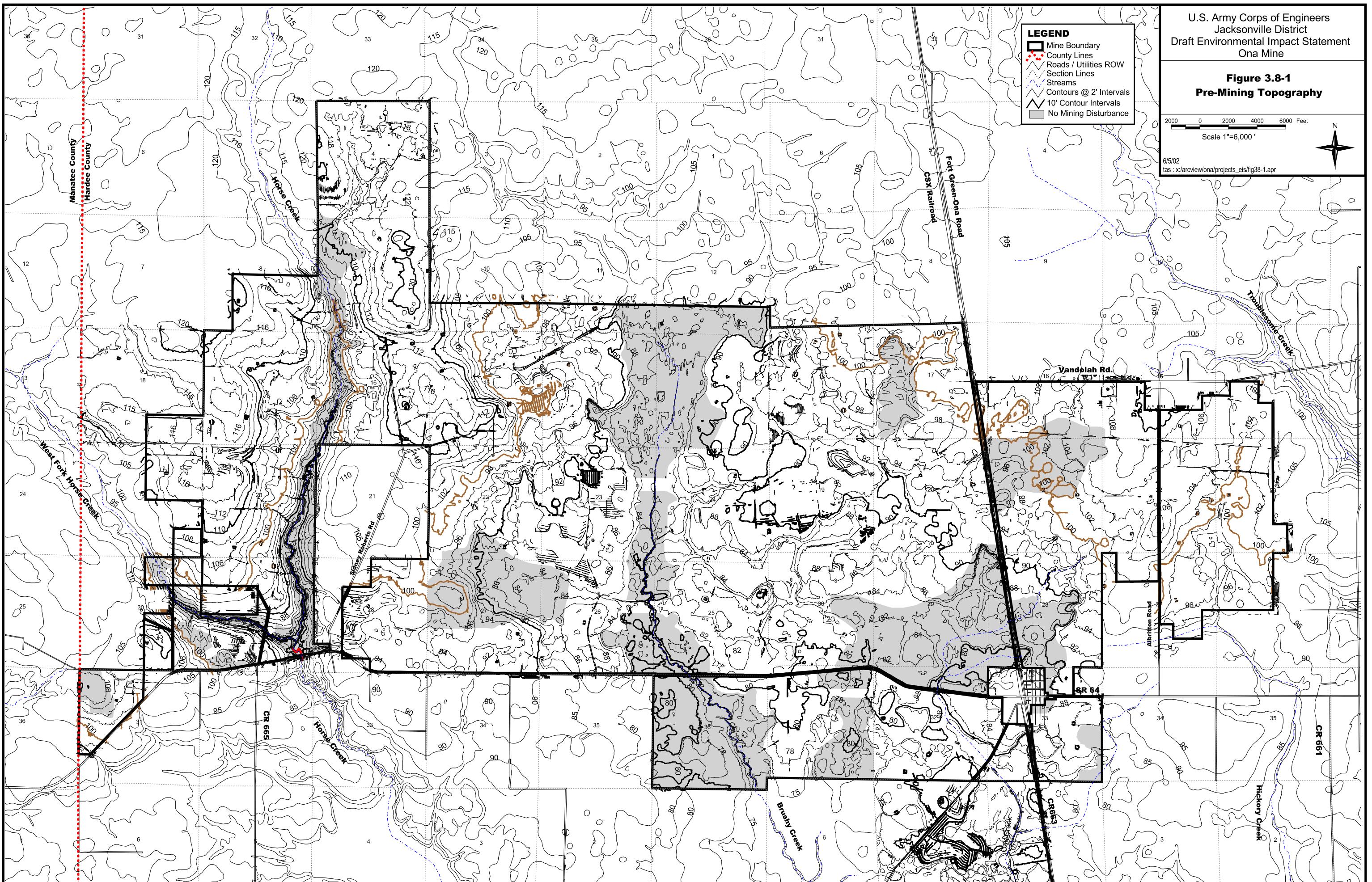


Figure 3.8-1
Pre-Mining Topography



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Figure 3.8-2
Pre-Mining Soils

2000 0 2000 4000 6000 Feet
Scale 1"=6,000'

6/5/02 Source: Hardee Co. Soil Survey
tas : x:/arcview/ona/projects_eis/fig38-2.apr



LEGEND

Zolfo-Tavares

- Zolfo Fine Sand - 002
- Sparri Fine Sand - 023
- Electra Sand - 026
- Smyrna-Myakka-Ona**
- Basinger Fine Sand - 007
- Smyrna Sand - 017
- Ona Fine Sand - 019
- Placid Fine Sand, Depressional - 021
- Pompano Fine Sand, Frequently Flooded - 031
- Basinger Fine Sand, Depressional - 037

Pomona-Florida-Popash

- Popash Mucky Fine Sand - 009
- Pomona Fine Sand - 010
- Felda Fine Sand - 011
- Felda Fine Sand, Frequently Flooded - 012
- Florida Mucky Fine Sand, Depressional - 013
- Holopaw Fine Sand - 028
- Felda Fine Sand, Depressional - 032
- Manatee Mucky Fine Sand - 033
- Farmton Fine Sand - 035

Immokalee-Pomello-Myakka

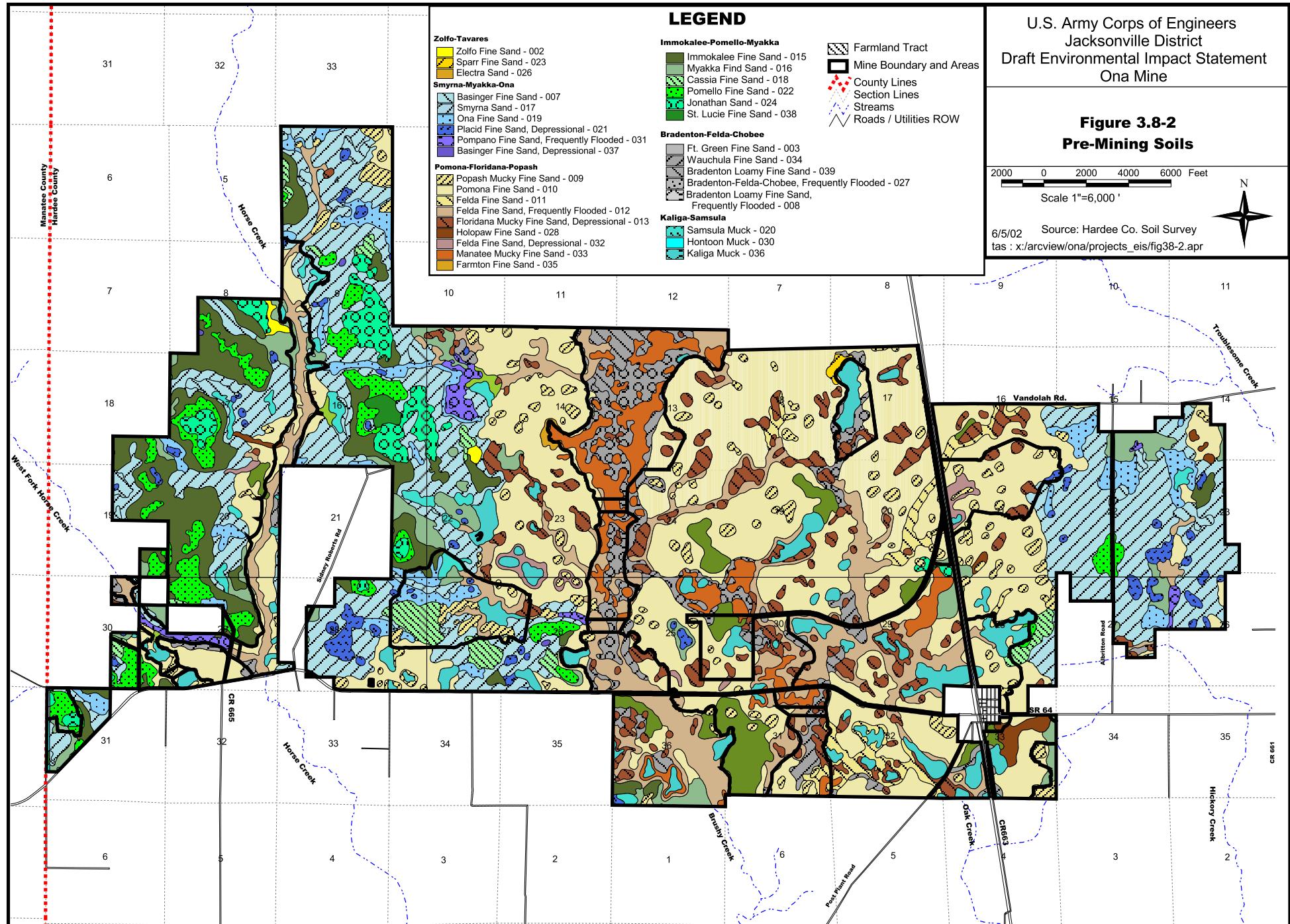
- Immokalee Fine Sand - 015
- Myakka Find Sand - 016
- Cassia Fine Sand - 018
- Pomello Fine Sand - 022
- Jonathan Sand - 024
- St. Lucie Fine Sand - 038

Bradenton-Felda-Chobee

- Ft. Green Fine Sand - 003
- Wauchula Fine Sand - 034
- Bradenton Loamy Fine Sand - 039
- Bradenton-Felda-Chobee, Frequently Flooded - 027
- Bradenton Loamy Fine Sand, Frequently Flooded - 008

Kaliga-Samsula

- Samsula Muck - 020
- Hontoon Muck - 030
- Kaliga Muck - 036



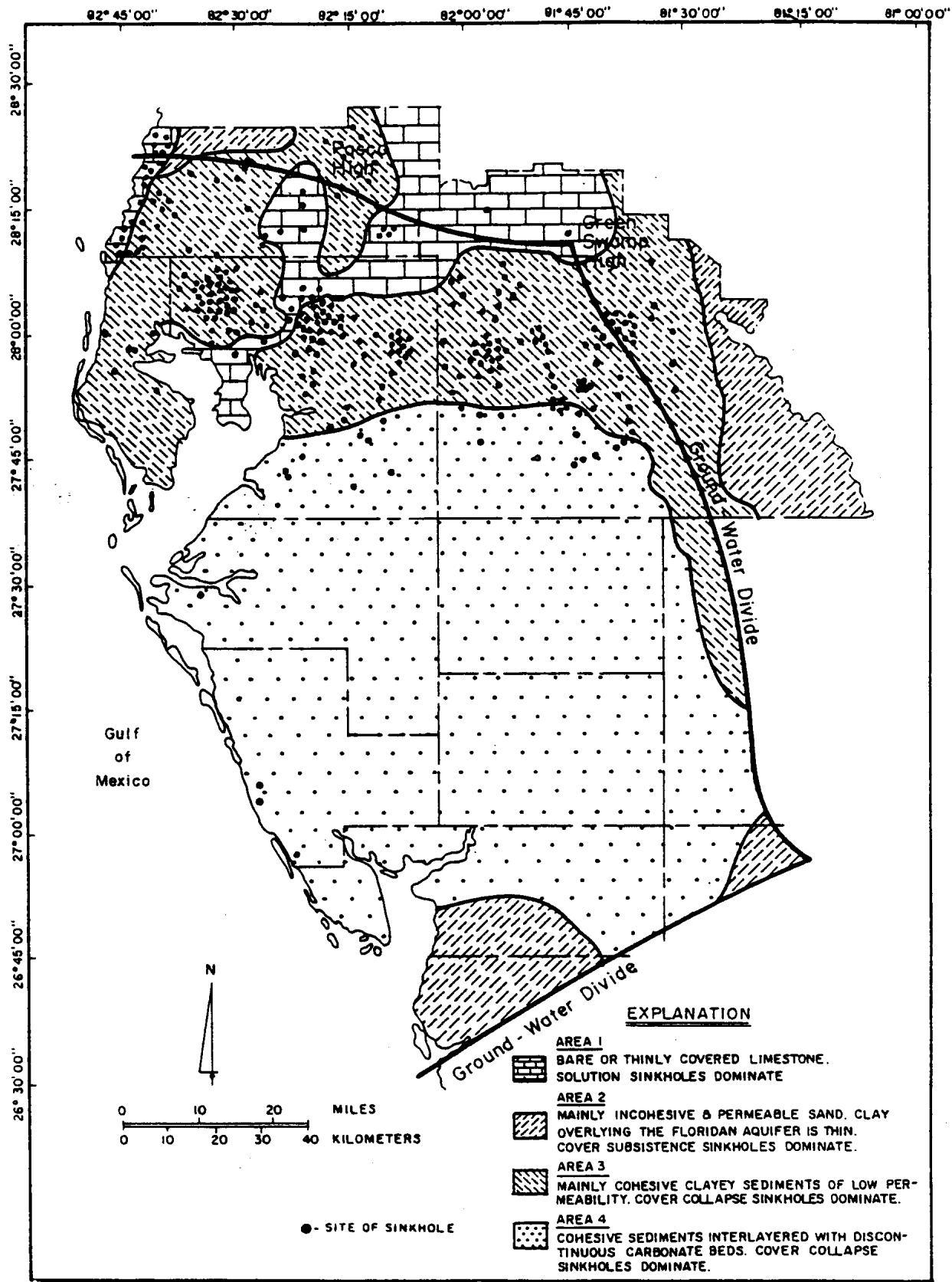


FIGURE 3.8-3
CATEGORIES, DEVELOPMENT DISTRIBUTION, AND SITE LOCATIONS
OF SINKHOLES IN THE SOUTHERN WEST-CENTRAL FLORIDA
GROUND-WATER BASIN (MODIFIED FROM SINCLAIR AND OTHERS, 1985)

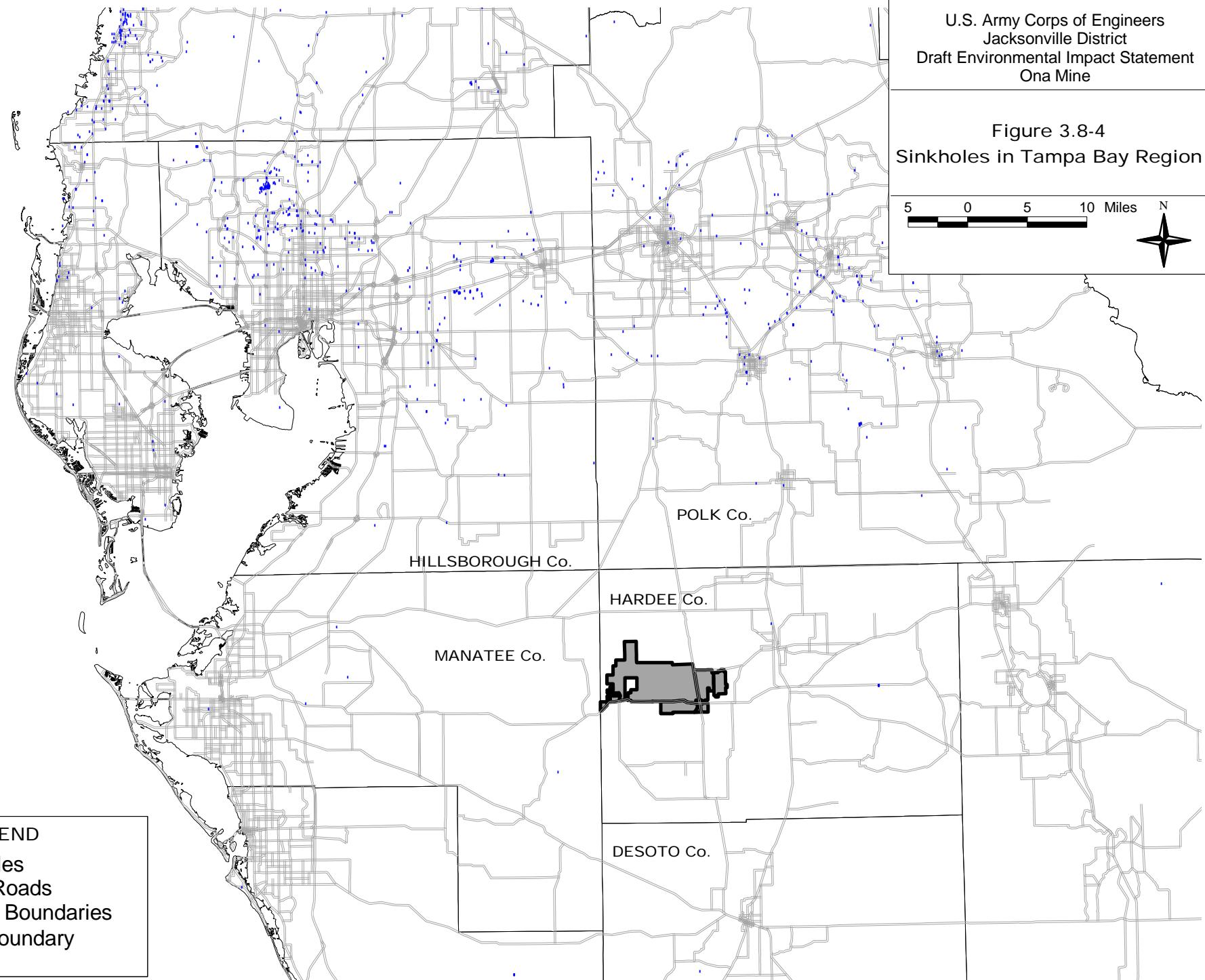
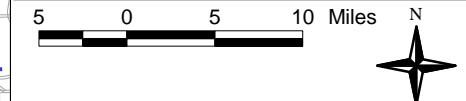
Sources: SWFWMD, 1988, ECT 1998

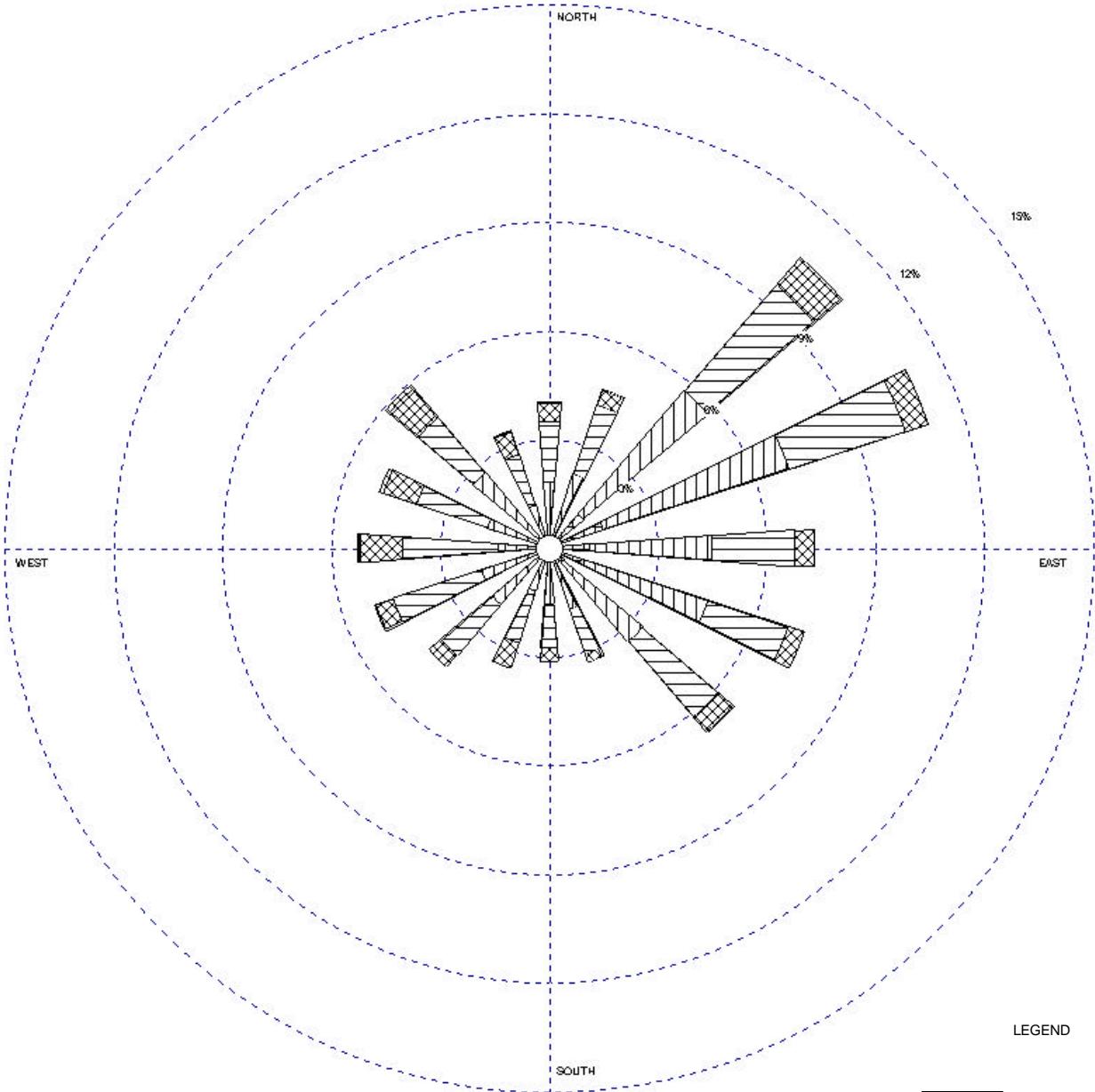
Date: November 6, 2001
 Filename: x:/arcview/ona/projects_eis/fig38-3.apr

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Figure 3.8-4
Sinkholes in Tampa Bay Region



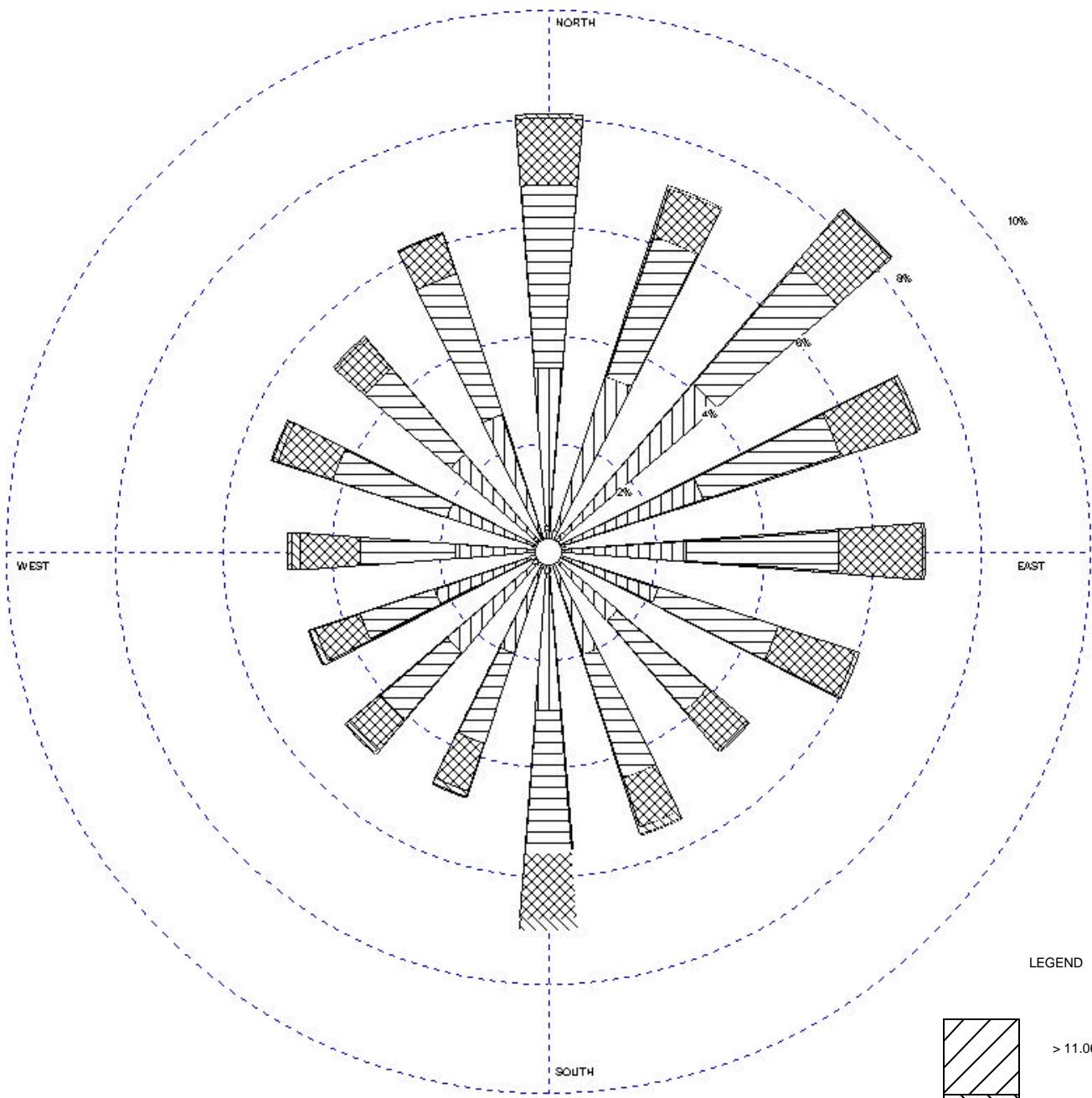


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Figure 3.10-1
Annual Average Windrose for Tampa International
Airport, 1991 - 1995

Source:
Golder, 2001.

> 11.06 m/s
8.49 - 11.06 m/s
5.40 - 8.49 m/s
3.34 - 5.40 m/s
1.80 - 3.34 m/s
0.51 - 1.80 m/s

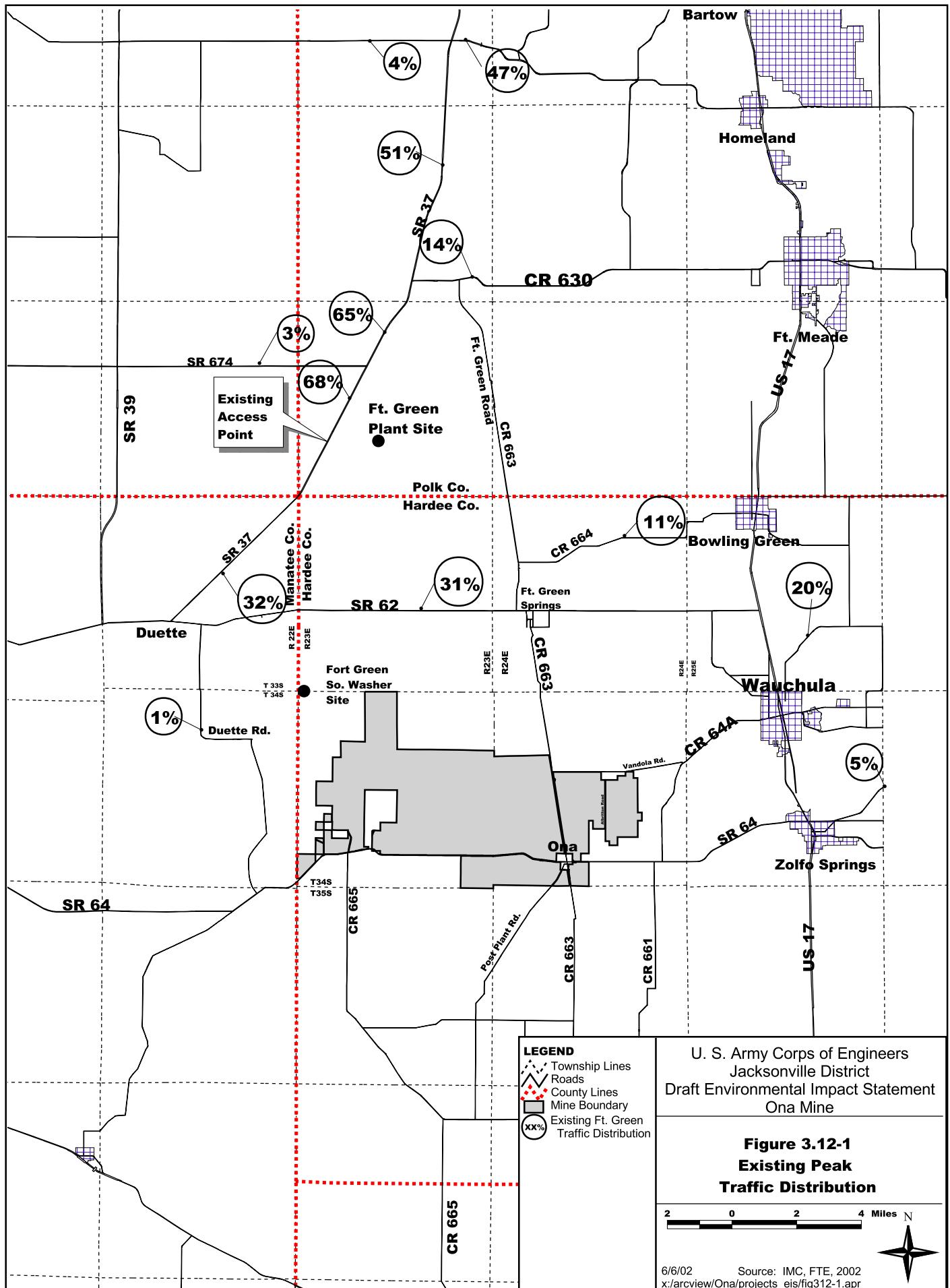


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Figure 3.10-2

Annual Average Windrose for Orlando International
Airport, 1991 - 1995

Source:
Golder, 2001.



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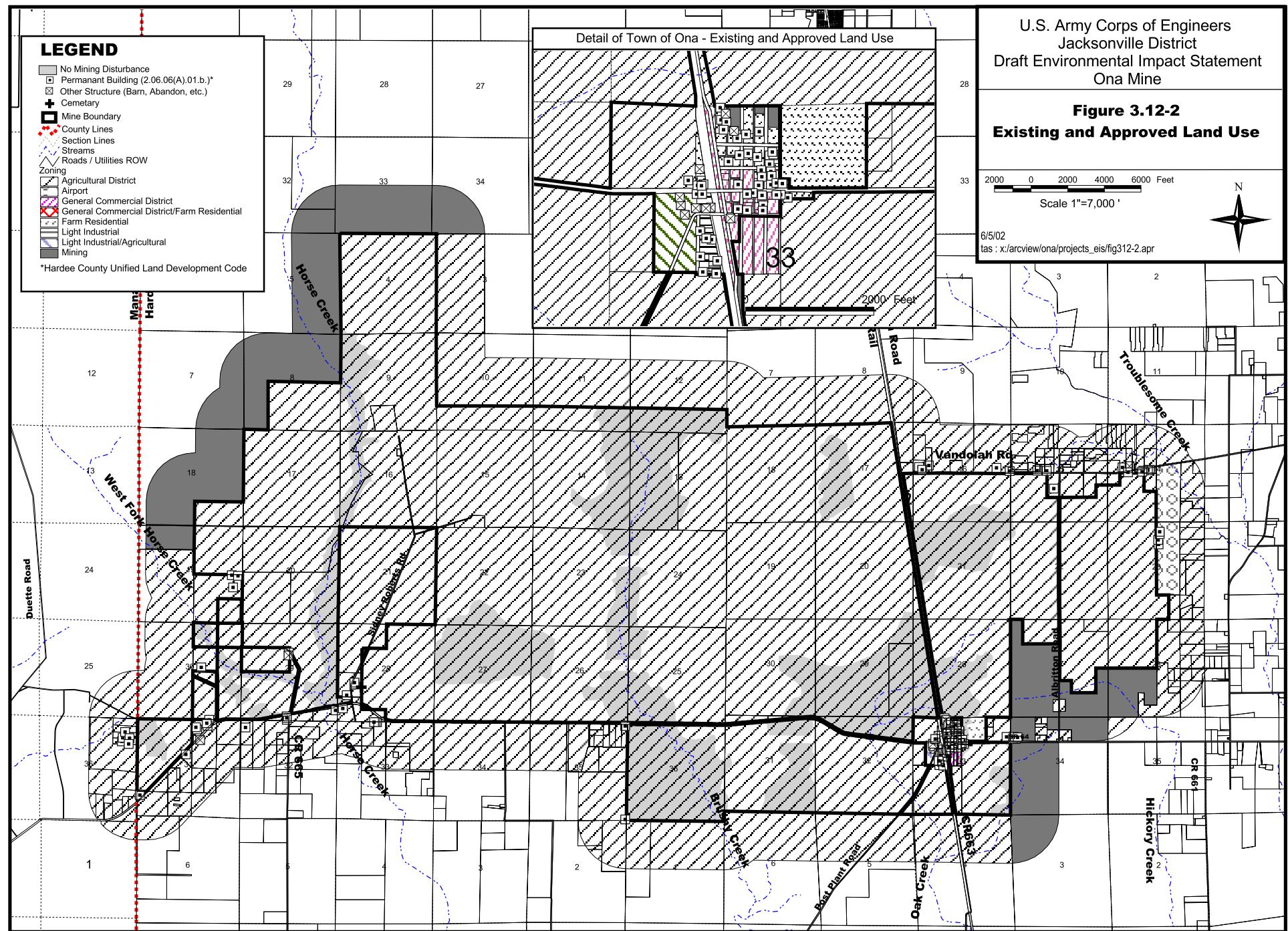
Figure 3.12-2
Existing and Approved Land Use

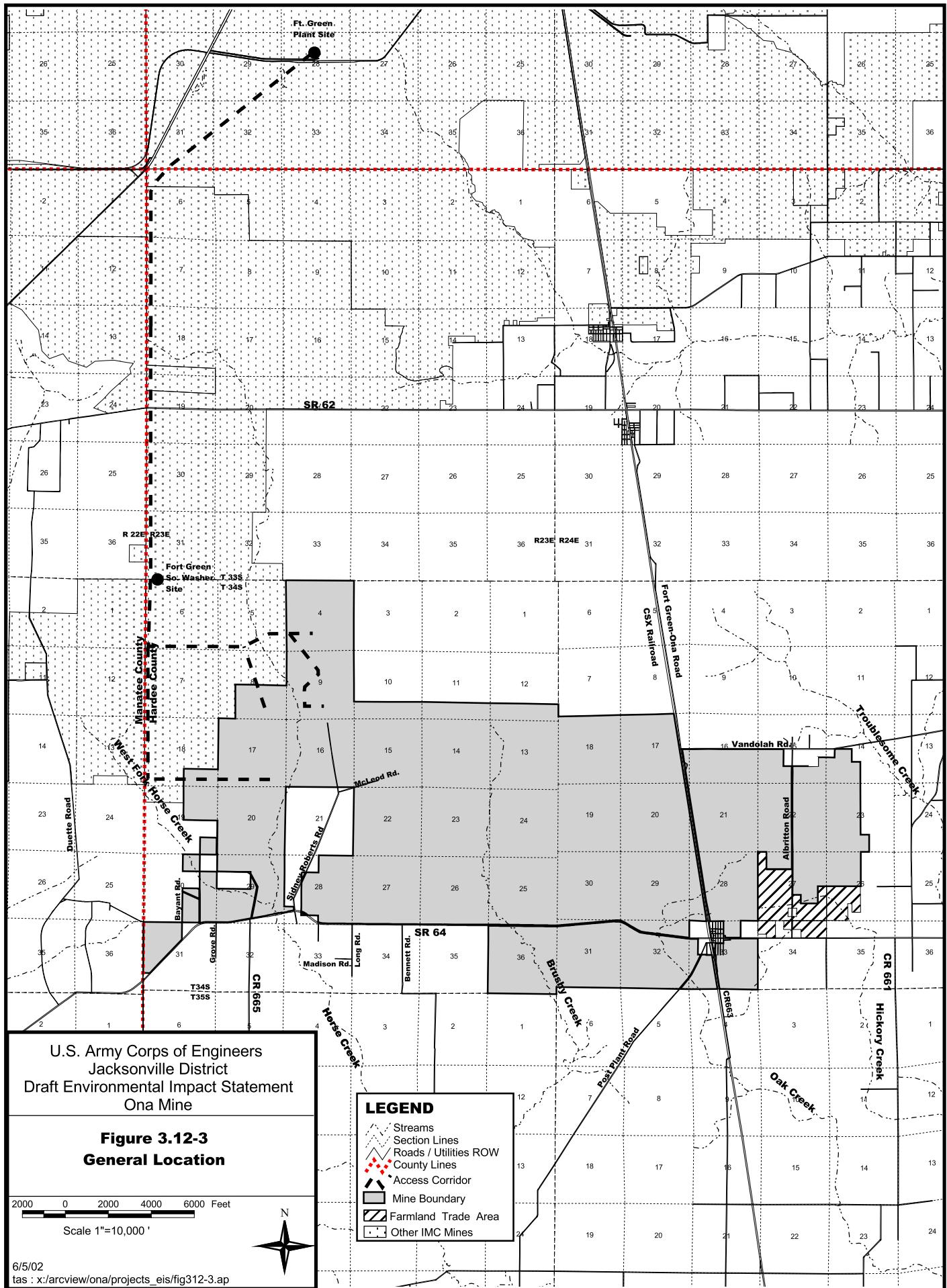
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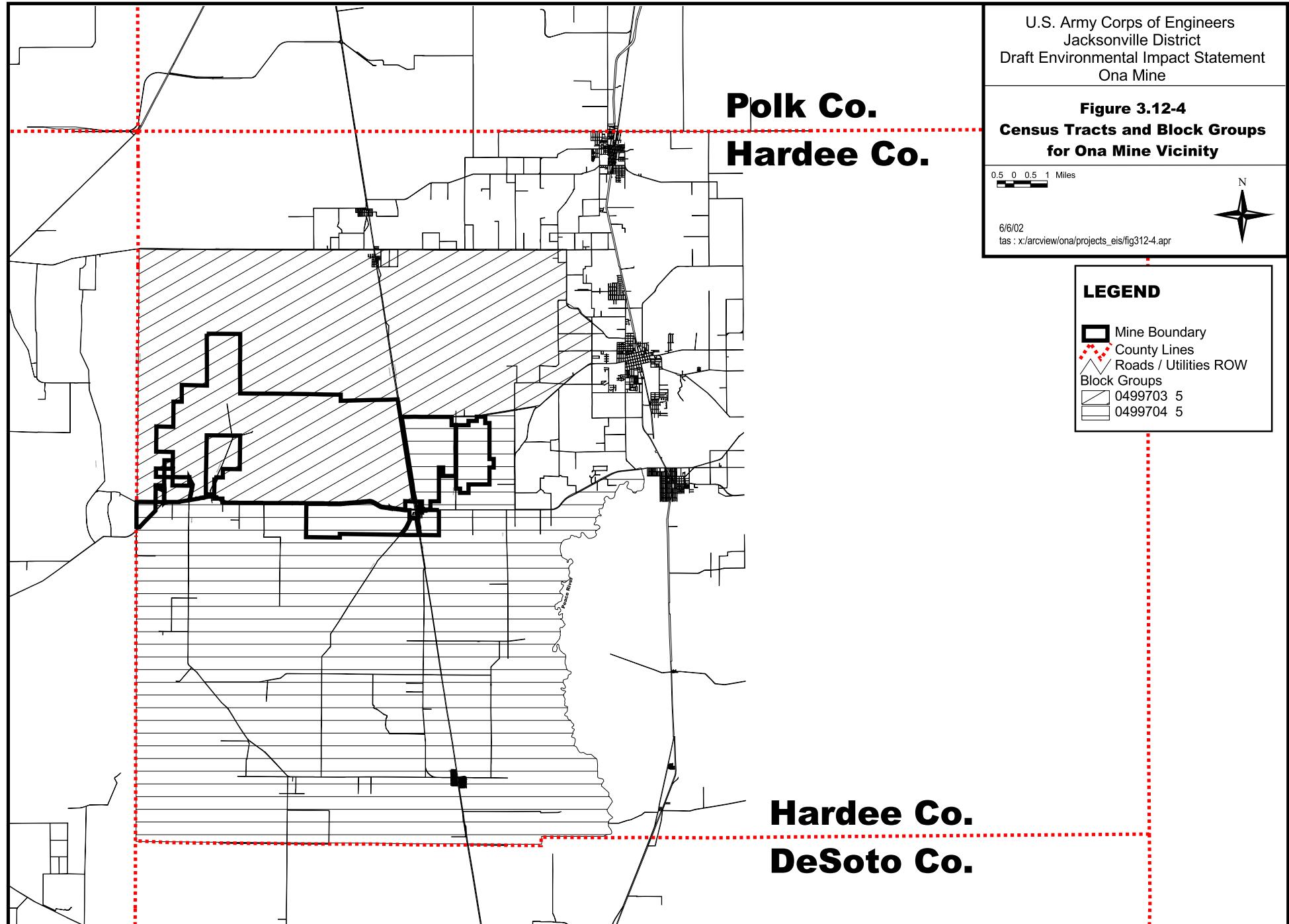
Scale 1"=7,000'

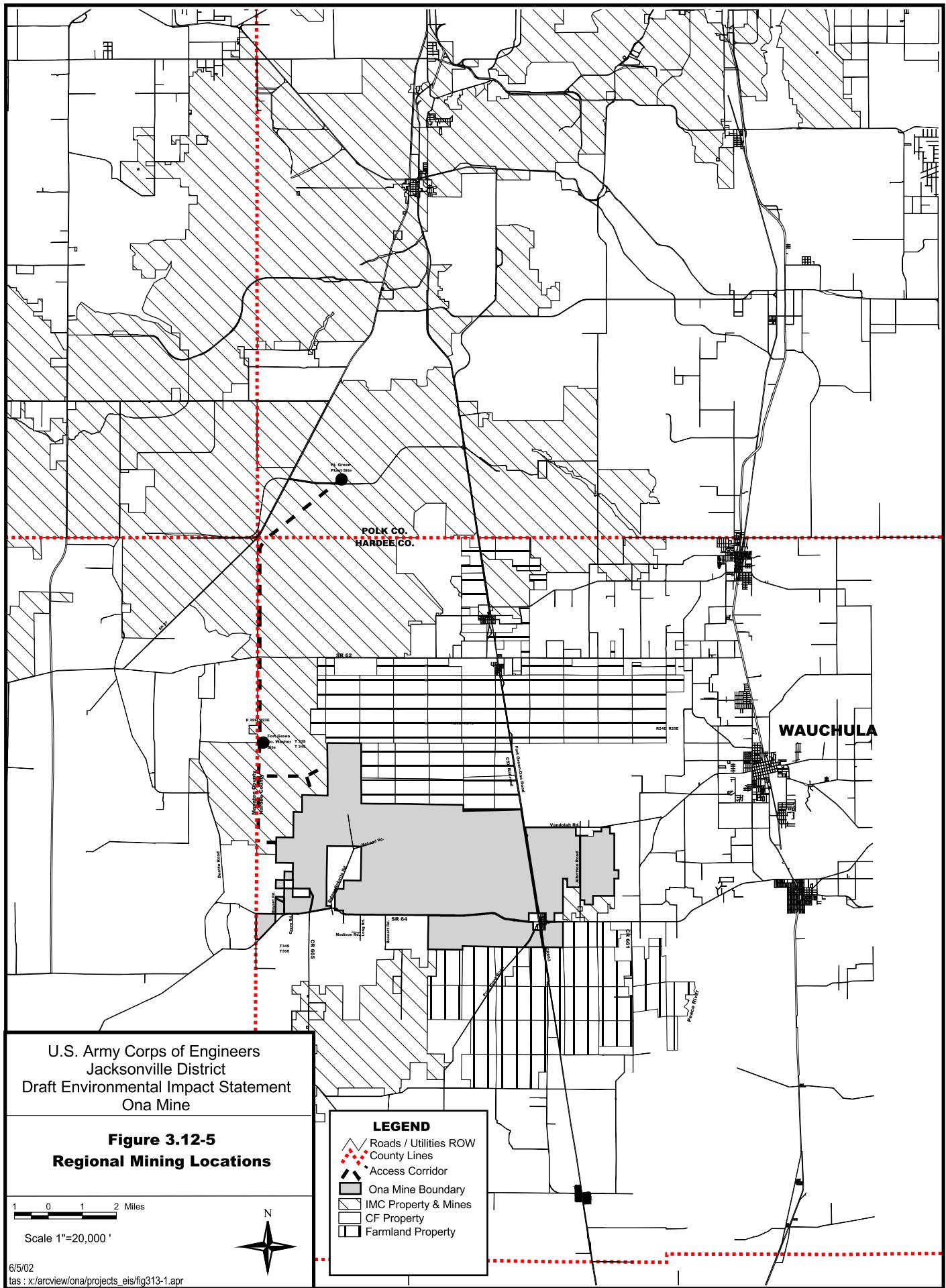


6/5/02
tas : x:/arcview/ona/projects_eis/fig312-2.apr









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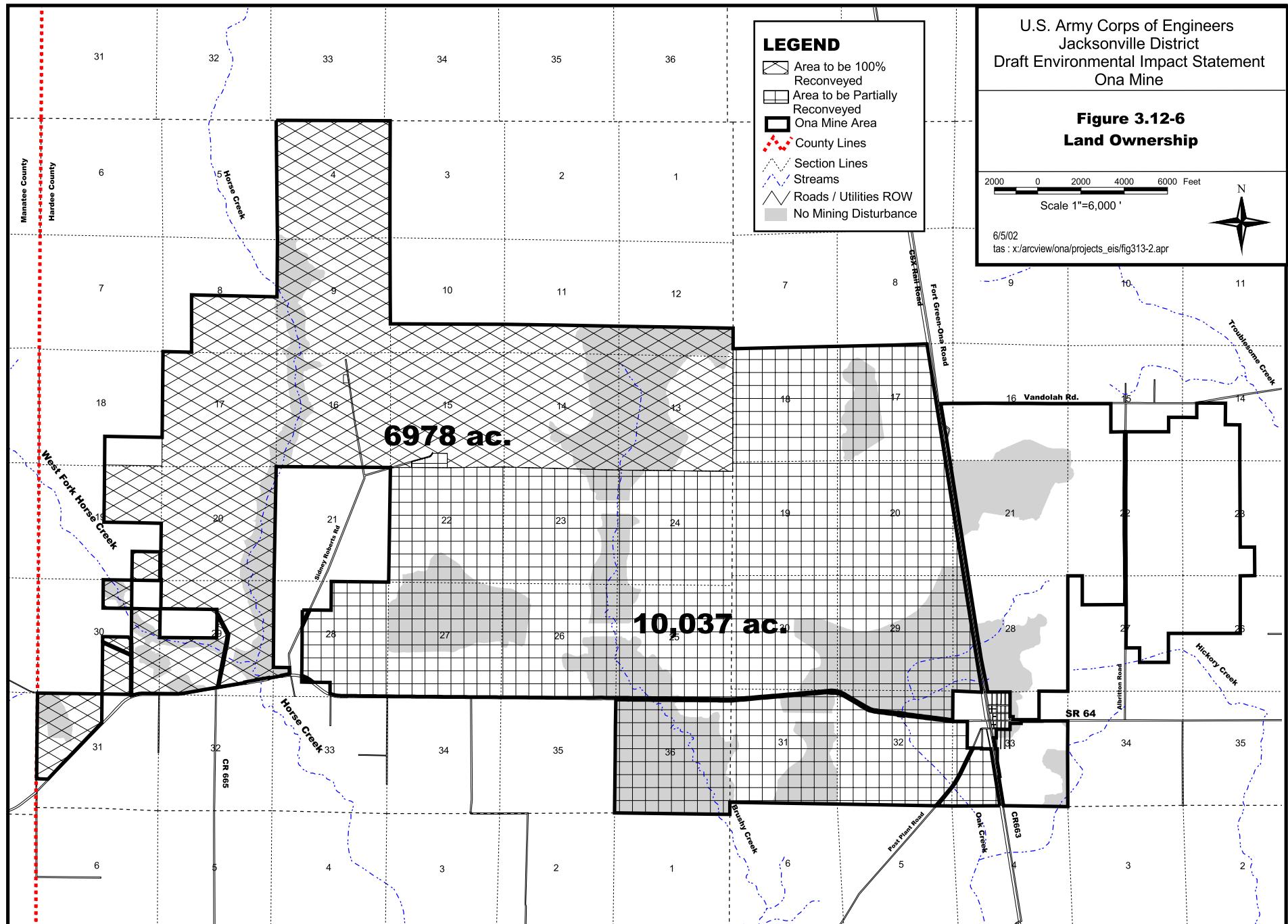
Figure 3.12-6
Land Ownership

2000 0 2000 4000 6000 Feet

Scale 1"=6,000'



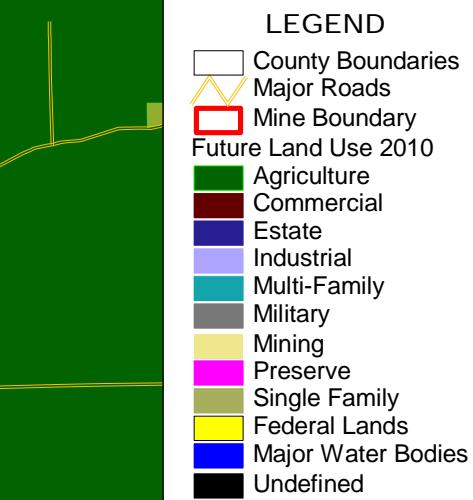
6/5/02
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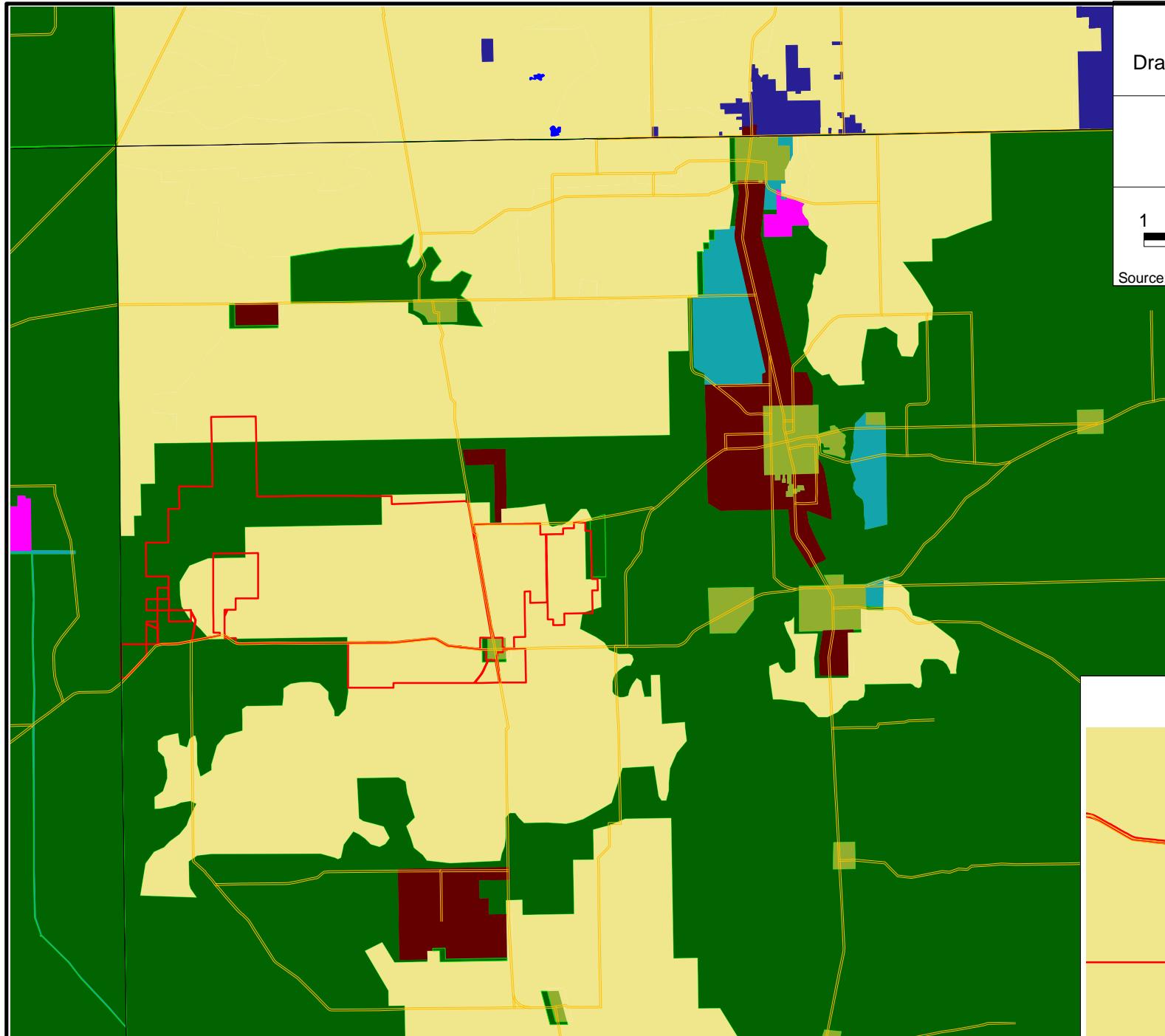
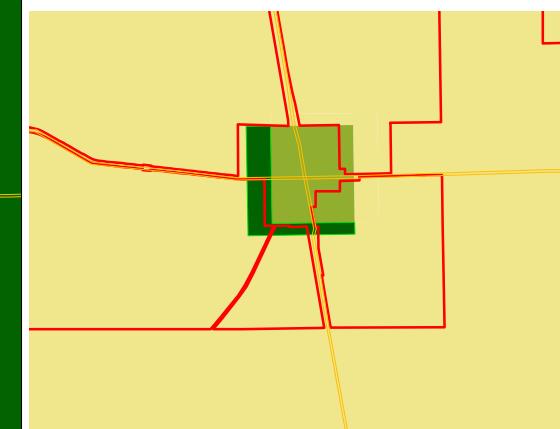
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Figure 3.12-7
Future Land Use 2010

Source: SWFRPC, 2002.



Ona Future Land Use 2010



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Figure 3.15-1
Historical and
Archaeological Sites

2000 0 2000 4000 6000 Feet
Scale 1"=6,000'
6/5/02 Source: As Noted In Legend
tas : x:/arcview/ona/projects_eis/fig316-1.apr



Notes: 1) All sites are released except 8HR779. 2) Re-survey sites that are not significant are not shown.

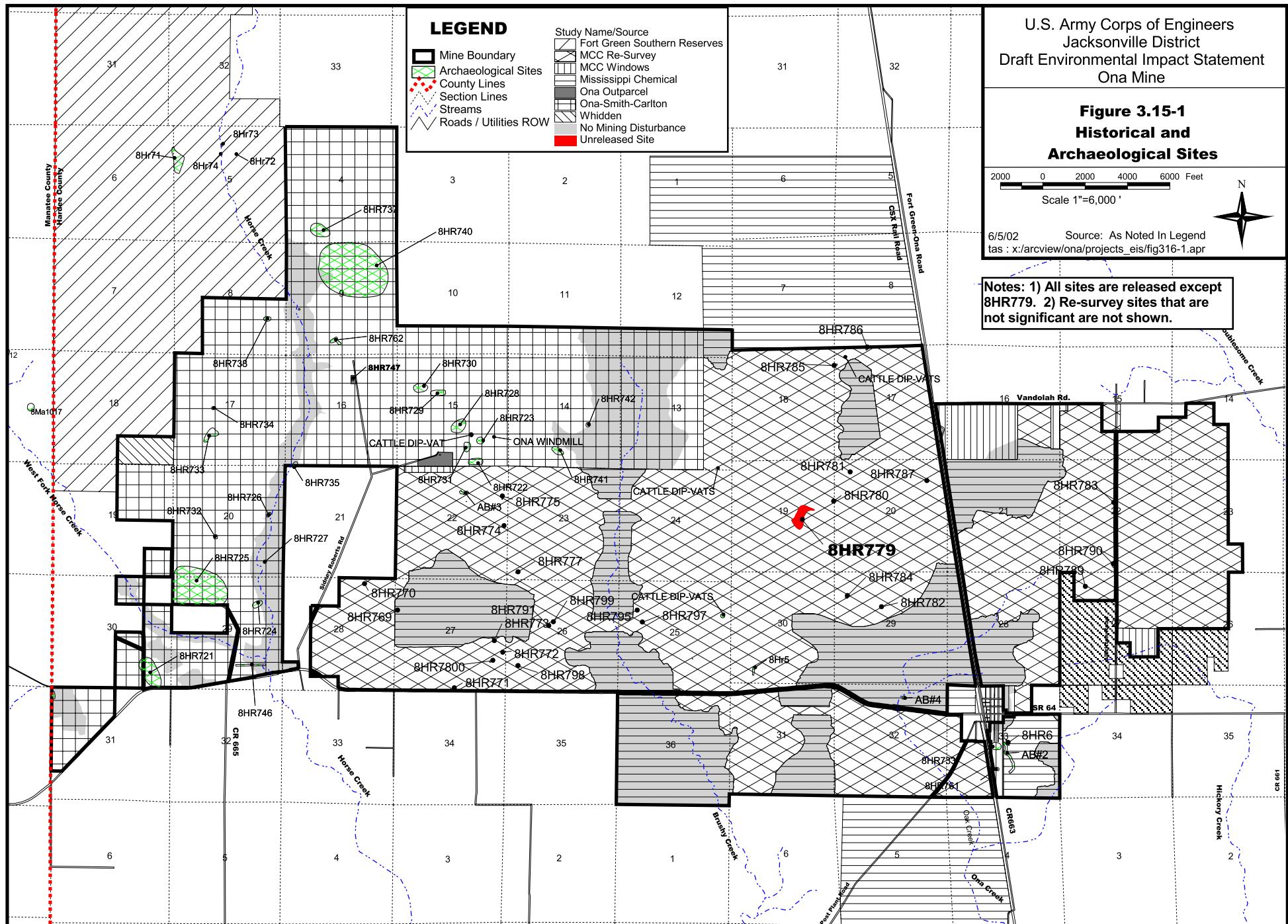


Table 4.2-1 - Ona Mine Wide Land Use/Cover Analysis

(FLUCFCS No. Code)	Type of Vegetative Cover	Acres Present Onsite Today (Premining)	Acres Proposed to be Left Undisturbed	Acres Proposed to be Disturbed	Proposed Reclamation	Acres Upon Completion of Reclamation
(100) Urban Land Uses						
(111) Single family homes		5.3	1.4	3.9	0.0	1.4
(112) Mobile homes		0.6	0.0	0.6	0.0	0.0
Subtotal		5.8	1.4	4.5	0.0	1.4
(200) Agricultural Uses						
(211) Improved pasture		7,306.3	305.8	7000.4	4955.9	5,261.7
(212) Unimproved pasture		145.7	1.2	144.5	0.0	1.2
(213) Woodland pasture		637.4	269.1	368.2	1163.2	1,432.3
(215) Field crops		119.3	25.9	93.4	0.0	25.9
(221) Citrus groves		209.2	0.0	209.2	0.0	0.0
Subtotal		8,417.9	602.1	7815.8	6119.1	6,721.2
(300) Rangeland						
(310) Herbaceous		19.8	1.1	18.7	0.0	1.1
(320) Shrub and Brushland		0.5	0.0	0.5	673.2	673.2
(321) Palmetto prairies		2,898.0	491.3	2406.7	1797.2	2,288.5
(329) Other shrub and brush		105.4	29.8	75.6	0.0	29.8
(330) Mixed		30.2	1.4	28.9	0.0	1.4
Subtotal		3,053.9	523.6	2530.3	2470.3	2,993.9
(400) Upland Forests						
(410) Upland Coniferous Forests					1243.0	1,243.0
(411) Pine flatwoods		1,479.6	536.4	943.1	493.1	1,029.5
(413) Sand pine		23.7	0.0	23.7	114.5	114.5
(414) Pine-mesic oaks		5.7	1.3	4.4	0.0	1.3
(425) Temperate hardwoods		756.5	559.7	196.8	94.1	653.8
(427) Live oak		1,242.2	666.5	575.7	101.3	767.7
(432) Sand live oak		404.2	77.2	327.0	271.7	348.9
(434) Hardwood-conifer mixed		1,058.0	377.1	681.0	616.1	993.1
(438) Mixed hardwoods		28.8	13.9	14.8	5.2	19.2
Subtotal		4,998.7	2,232.1	2766.6	2939.0	5,171.1
(500) Water						
Streams & Waterways		0.0	0.0	0.0	0.1 *	0.1
Natural streams (511)		20.9	13.3	7.6	0.5 *	13.8
Man-made ditches (512)		74.6	15.4	59.2	0.6	16.1
(510) Streams, Waterways, and Ditches - Total		95.5	28.7	66.8 *	1.3 *	30.0
(522) Lakes 100 -500 ac.		0.0	0.0	0.0	565.4	565.4
(523) Lakes 10 - 100 ac.		0.0	0.0	0.0	453.9	453.9
(534) Reservoirs < 10 ac. (cattle ponds)		20.2	2.0	18.3	14.0	16.0
Subtotal		115.7	30.7	85.0	1,034.5	1,065.2
(600) Wetlands						
(611) Bay swamps		126.4	27.0	99.5	127.1	154.1
(613) Gum swamps		25.8	1.1	24.7	32.3	33.4
(615) Stream swamps		64.8	33.4	31.4	40.9	74.3
(616) Inland ponds and sloughs		2.9	0.0	2.9	0.0 #	0.0
(617) Mixed wetland hardwoods		1,048.5	580.6	467.9	704.6 *	1,285.2
(620) Wetland coniferous		31.6	1.9	29.6	107.5 #	109.4
(630) Wetland mixed hardwood-coniferous		137.1	55.7	81.4	260.0	315.7
Forested Sub total		1,434.1	699.7	734.4	1,272.4	1,972.1
Freshwater marshes (640 & 641)		1,413.0	480.2	932.8	1043.9	1,524.1
Shrub swamps (646)		767.2	193.0	574.2	542.3	735.3
(641) Freshwater marshes (includes 646) - total		2,180.1	673.2	1,507.0	1,586.3	2,259.4
(643) Wet prairies		419.8	75.9	343.9	406.6	482.5
(644) Emergent aquatics		1.2	0.0	1.2	2.8	2.8
Marsh Sub total		2,601.2	749.1	1,852.1	1,995.7	2,744.7
Subtotal - Wetlands (600's)		4,035.3	1,448.7	2586.5	3268.1	4,716.8
(700) Barren Lands						
(743) Spoil areas		13.3	0.4	12.9	0.0	0.4
Subtotal		13.3	0.4	12.9	0.0	0.4
(800) Transportation Uses						
(814) Roads		35.0	0.6	34.4	5.1	5.7
Subtotal		35.0	0.6	34.4	5.1	5.7
Total: Ona Minesite		20,675.5	4,839.5	15836.1	15836.1	20,675.6

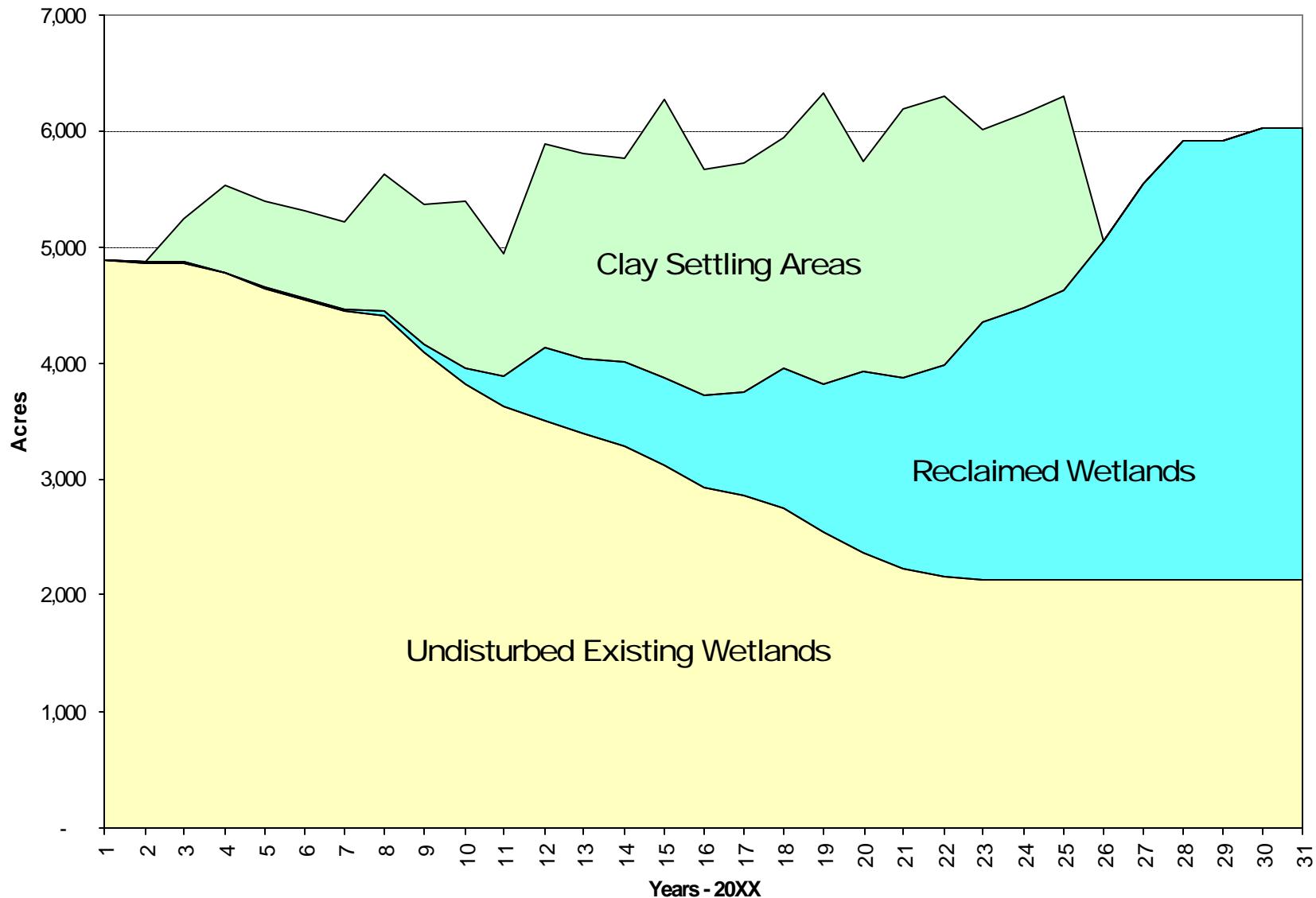
* Reclaimed 510, 512 are stream/ditch connections in access corridor crossings. Note that streams are included in 615 & 617.

Reclaimed 620 includes 616

Source: IMC, 2002.

Figure 4.2-2
Wetland Habitat

Source:
IMC, 2002.



Mining Activity	Year *	USACE Wetland Acres														
		Wetlands Disturbed in Each Year	Net Existing Wetlands	Wetlands Reclaimed in each Year	Total Wetlands Reclaimed	Active Clay Settling Areas	Total wetlands	Clay Settling Area - Active Pond								
								O-1A	O-1B	O-1C	O-2	O-3A	O-3B	O-4A	O-4B	O-4C
Pre-Mining			4,901													
Mining	2003	34.7	4,866	13	13		4,879									
Mining	2004	6.0	4,860		13	373	5,246	373								
Mining	2005	85.9	4,775		13	746	5,533	373	373							
Mining	2006	141.0	4,633		13	746	5,392	373	373							
Mining & Recl.	2007	77.5	4,556	1	14	746	5,316	373	373							
Mining & Recl.	2008	108.9	4,447	14	27	746	5,220	373	373							
Mining & Recl.	2009	43.3	4,404	17	45	1,192	5,641	373	373	446						
Mining & Recl.	2010	308.4	4,095	31	76	1,192	5,364	373	373	446						
Mining & Recl.	2011	271.8	3,824	54	131	1,434	5,388	373	446	615						
Mining & Recl.	2012	195.3	3,628	130	261	1,061	4,950	446	446	615						
Mining & Recl.	2013	135.2	3,493	383	644	1,756	5,893		446	615	695					
Mining & Recl.	2014	97.3	3,396	7	651	1,756	5,803		446	615	695					
Mining & Recl.	2015	110.8	3,285	76	726	1,756	5,767		446	615	695					
Mining & Recl.	2016	162.9	3,122	25	751	2,402	6,276		446	615	695	646				
Mining & Recl.	2017	197.6	2,924	48	799	1,956	5,680		615	695	646					
Mining & Recl.	2018	62.2	2,862	98	897	1,956	5,715		615	695	646					
Mining & Recl.	2019	111.6	2,751	305	1,201	1,988	5,940		695	646	647					
Mining & Recl.	2020	208.0	2,543	78	1,280	2,509	6,332		695	646	647	521				
Mining & Recl.	2021	174.1	2,369	277	1,557	1,814	5,739		646	647	521					
Mining & Recl.	2022	133.5	2,235	74	1,631	2,319	6,185		646	647	521	505				
Mining & Recl.	2023	71.4	2,164	189	1,820	2,319	6,303		646	647	521	505				
Mining & Recl.	2024	27.4	2,136	392	2,212	1,673	6,022		647	521	505					
Mining & Recl.	2025		2,136	127	2,340	1,673	6,149		647	521	505					
Mining & Recl.	2026		2,136	150	2,490	1,673	6,299		647	521	505					
Reclamation	2027		2,136	430	2,920	-	5,056									
Reclamation	2028		2,136	497	3,417	-	5,553									
Reclamation	2029		2,136	362	3,779	-	5,915									
Reclamation	2030		2,136	7	3,786	-	5,923									
Reclamation	2031		2,136	112	3,898	-	6,034									
Reclamation	2032		2,136		3,898	-	6,034									
	Total	2,765	2,136	3,898.1			6,034									

Source: IMC, 2002.

Table 4.2-4 - Acreages of Jurisdictional Areas

FLUCS Code	WRAP Score									Sum of Acres
	<0.20	0.20 - 0.29	0.30 - 0.39	0.40 - 0.49	0.50 - 0.59	0.60 - 0.69	0.70 - 0.79	0.80 - 0.89	0.90 - 0.99	
111	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4
211	0.0	9.7	30.0	21.9	1.0	0.0	0.2	0.0	0.0	62.6
212	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
213	0.0	0.0	2.5	74.9	5.9	7.2	0.0	0.0	0.0	90.5
310	0.0	0.0	0.0	0.0	0.7	0.0	4.6	0.0	0.0	5.3
321	0.0	0.0	0.0	0.0	3.6	3.4	0.0	2.3	0.0	9.2
329	0.0	0.0	0.0	0.0	8.2	5.7	1.6	3.3	0.0	18.9
330	0.0	0.0	0.0	0.0	8.0	0.7	1.3	0.0	0.0	9.9
411	0.0	0.0	0.0	0.0	12.3	39.4	20.0	25.1	0.0	96.8
425	0.0	0.2	0.0	5.3	21.1	121.2	256.5	12.0	0.0	416.4
427	0.0	8.9	0.0	24.4	85.7	76.5	20.5	14.5	9.4	239.8
434	0.0	1.6	8.4	37.9	37.8	142.6	48.7	4.6	0.0	281.6
438	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	1.5
511	0.0	0.1	0.9	1.4	4.0	8.7	3.8	1.3	0.0	20.2
512	1.5	0.7	4.3	8.1	12.3	14.6	4.6	0.1	0.0	46.0
534	0.2	0.1	3.9	3.0	4.2	1.2	0.1	0.2	0.0	13.0
611	0.0	0.0	0.0	0.0	16.4	38.0	17.6	13.0	11.2	96.2
613	0.0	0.0	0.0	0.0	1.4	0.0	22.9	1.3	0.0	25.6
615	0.0	0.0	4.2	5.2	0.0	27.6	27.8	0.0	0.0	64.8
616	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	2.9
617	0.0	0.0	10.1	24.8	45.0	152.2	381.6	368.2	53.6	1,035.5
620	0.0	0.0	0.0	0.6	0.0	11.0	16.1	0.9	0.0	28.7
630	0.0	0.0	0.0	5.7	11.9	41.1	71.5	6.8	0.0	137.1
641	0.0	0.7	2.8	44.9	118.5	273.2	332.3	298.6	88.5	1,159.6
643	2.0	0.7	6.9	53.6	97.8	97.0	62.4	15.1	4.6	340.0
644	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.2
646	0.0	6.9	32.9	108.7	238.8	140.8	126.0	42.4	0.0	696.5
743	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Subtotal:	4.6	29.6	106.8	423.7	735.9	1,202.1	1,421.2	809.9	167.2	4,901.0

Source: IMC, 2002.

Table 4.2-5 - Acreage Analysis of Jurisdictional Areas to be Mined/Disturbed

FLUCS Code	WRAP Score									Sum of Acres
	<0.20	0.20 - 0.29	0.30 - 0.39	0.40 - 0.49	0.50 - 0.59	0.60 - 0.69	0.70 - 0.79	0.80 - 0.89	0.90 - 0.99	
211	0.0	2.7	28.9	14.9	0.6	0.0	0.2	0.0	0.0	47.2
212	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
213	0.0	0.0	2.3	13.8	0.0	0.4	0.0	0.0	0.0	16.6
310	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	4.6
321	0.0	0.0	0.0	0.0	2.6	3.4	0.0	0.0	0.0	5.9
329	0.0	0.0	0.0	0.0	1.6	3.6	0.7	0.0	0.0	5.9
330	0.0	0.0	0.0	0.0	8.0	0.7	0.2	0.0	0.0	8.8
411	0.0	0.0	0.0	0.0	10.0	36.8	17.7	4.5	0.0	69.1
425	0.0	0.0	0.0	2.0	11.0	39.3	11.8	1.1	0.0	65.2
427	0.0	8.9	0.0	9.5	36.4	45.9	0.0	0.3	0.0	101.1
434	0.0	1.6	7.7	11.3	26.7	95.9	27.8	0.0	0.0	171.1
438	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.8
511	0.0	0.1	0.1	1.4	2.7	1.4	1.1	0.2	0.0	7.0
512	1.5	0.4	4.0	7.5	10.4	5.6	3.7	0.0	0.0	32.9
534	0.2	0.1	2.7	2.9	3.6	1.2	0.1	0.2	0.0	11.2
611	0.0	0.0	0.0	0.0	16.4	28.4	17.6	6.8	0.0	69.2
613	0.0	0.0	0.0	0.0	0.4	0.0	22.9	1.3	0.0	24.5
615	0.0	0.0	4.2	5.2	0.0	21.9	0.0	0.0	0.0	31.4
616	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	2.9
617	0.0	0.0	10.1	24.1	39.1	94.5	256.0	29.9	4.1	457.8
620	0.0	0.0	0.0	0.6	0.0	10.1	16.1	0.0	0.0	26.7
630	0.0	0.0	0.0	5.7	10.4	16.0	48.0	1.3	0.0	81.4
641	0.0	0.4	2.5	41.1	101.9	219.0	229.9	104.7	34.1	733.6
643	2.0	0.7	6.7	49.1	84.0	76.0	47.0	4.6	3.8	273.9
644	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.2
646	0.0	6.9	28.1	106.6	216.4	86.8	42.8	25.9	0.0	513.6
743	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Subtotal:	4.6	21.9	97.4	298.6	582.7	787.1	749.4	180.9	42.1	2,764.7

Source: IMC, 2002.

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Figure 4.2-6

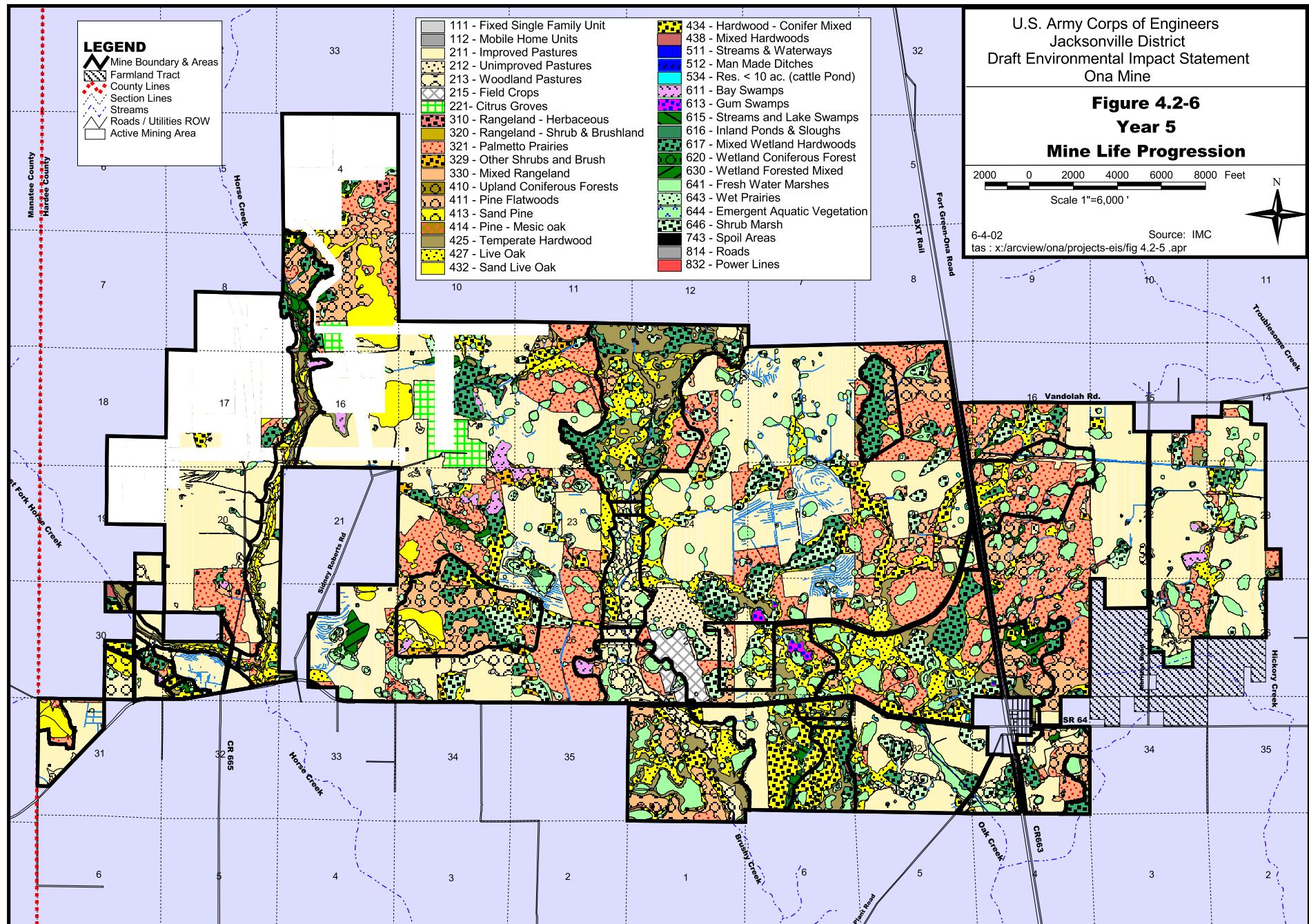
Year 5

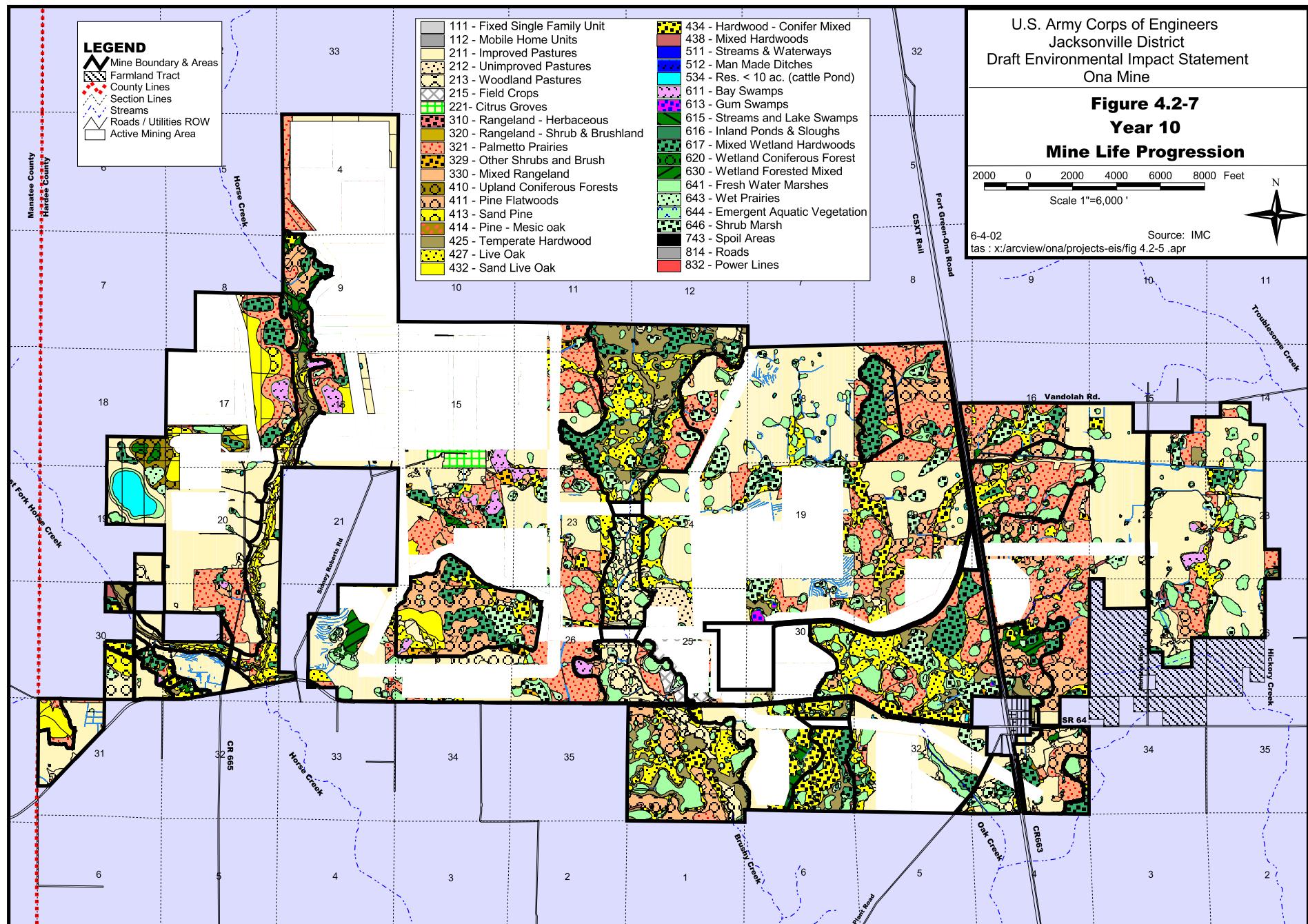
Mine Life Progression

2000 0 2000 4000 6000 8000 Feet



6-4-02 Source: IMC
tas : x:/arcview/ona/projects-eis/fig 4.2-5.apr





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Figure 4.2-8

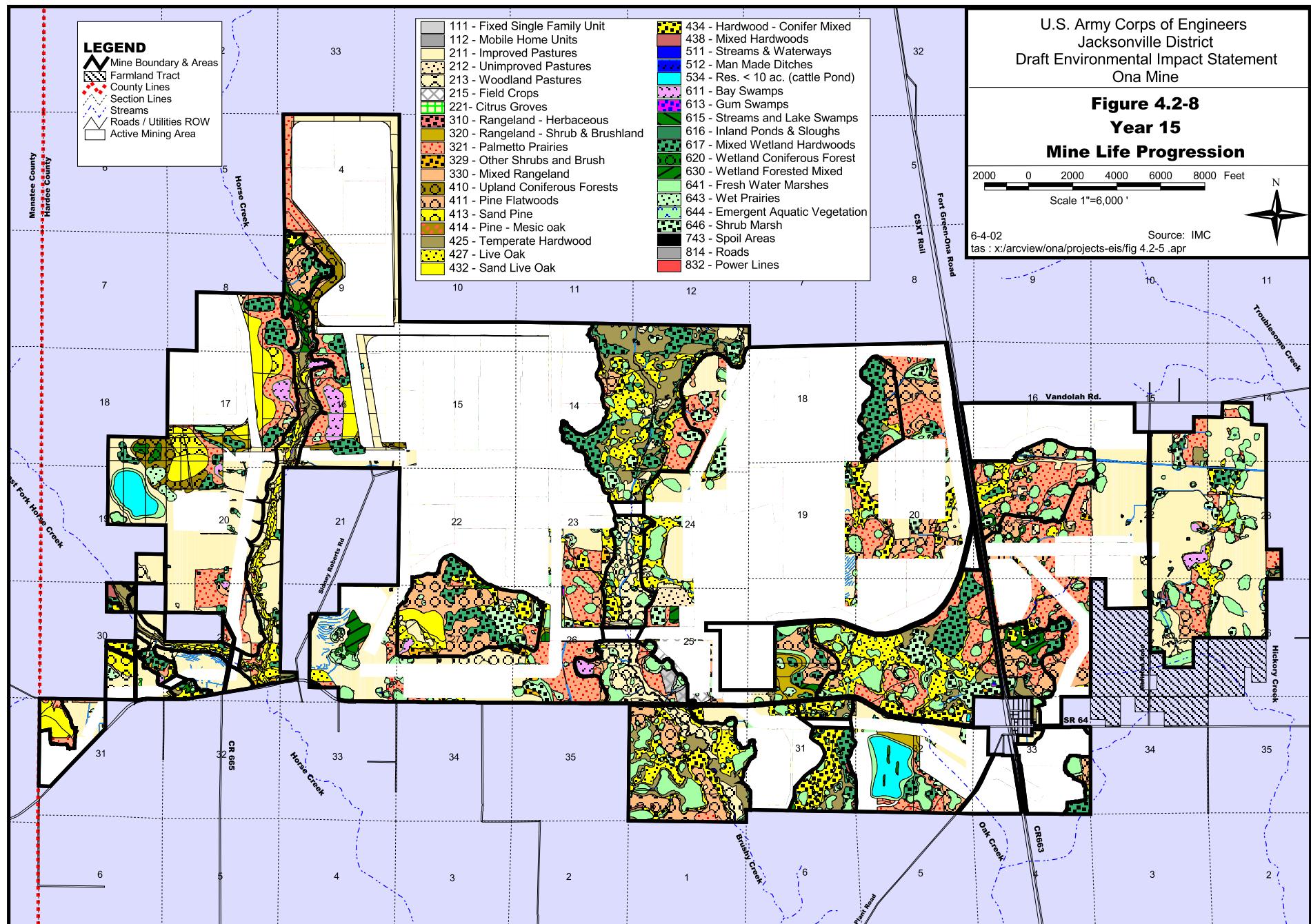
Year 15

Mine Life Progression

2000 0 2000 4000 6000 8000 Feet
Scale 1"=6,000'



Source: IMC
tas : x:/arcview/ona/projects-eis/fig 4.2-5.apr



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Ona Mine

Figure 4.2-9

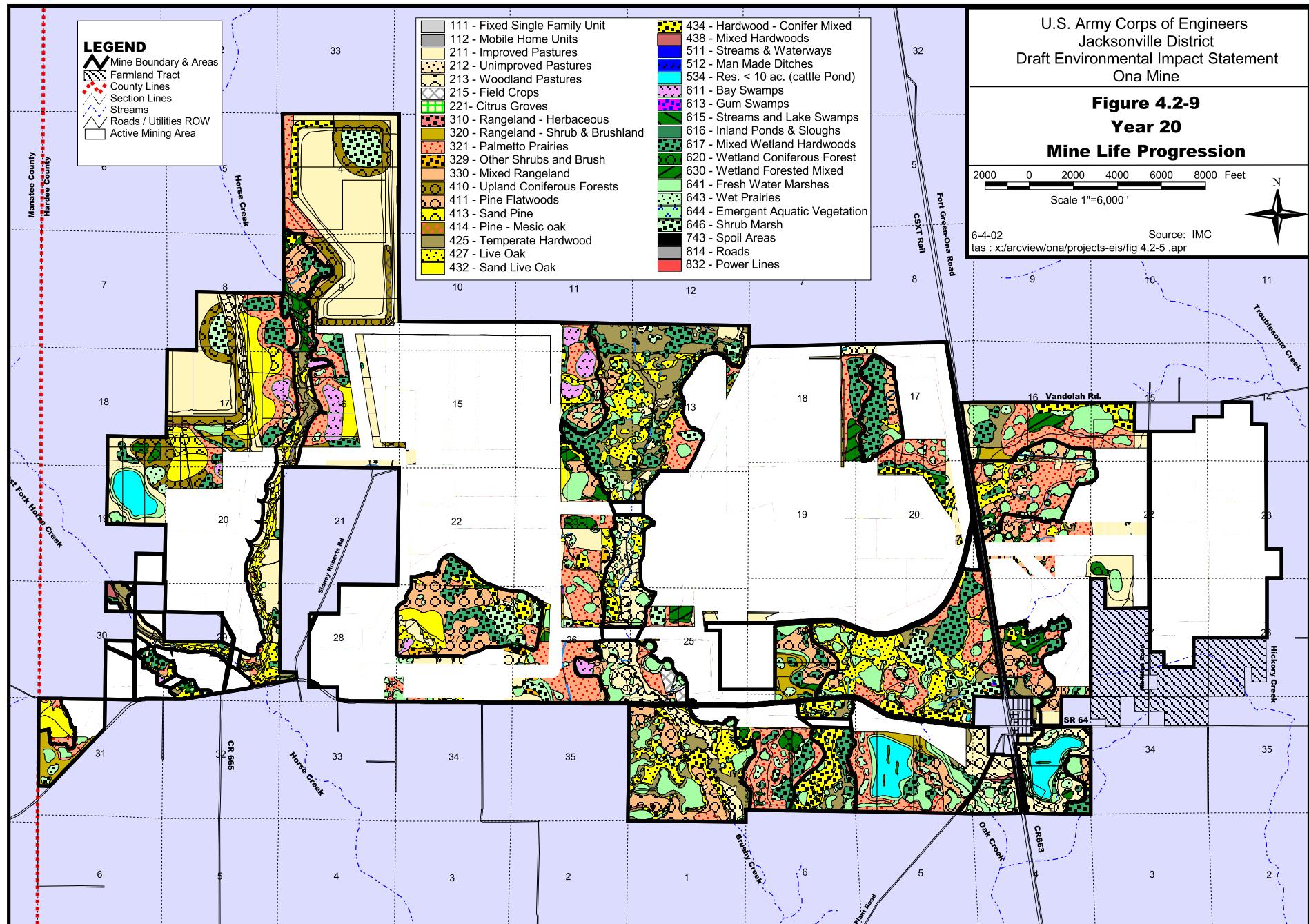
Year 20

Mine Life Progression

2000 0 2000 4000 6000 8000 Feet



Source: IMC
tas : x:/arcview/ona/projects-eis/fig 4.2-5.apr



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Figure 4.2-10

Year 25

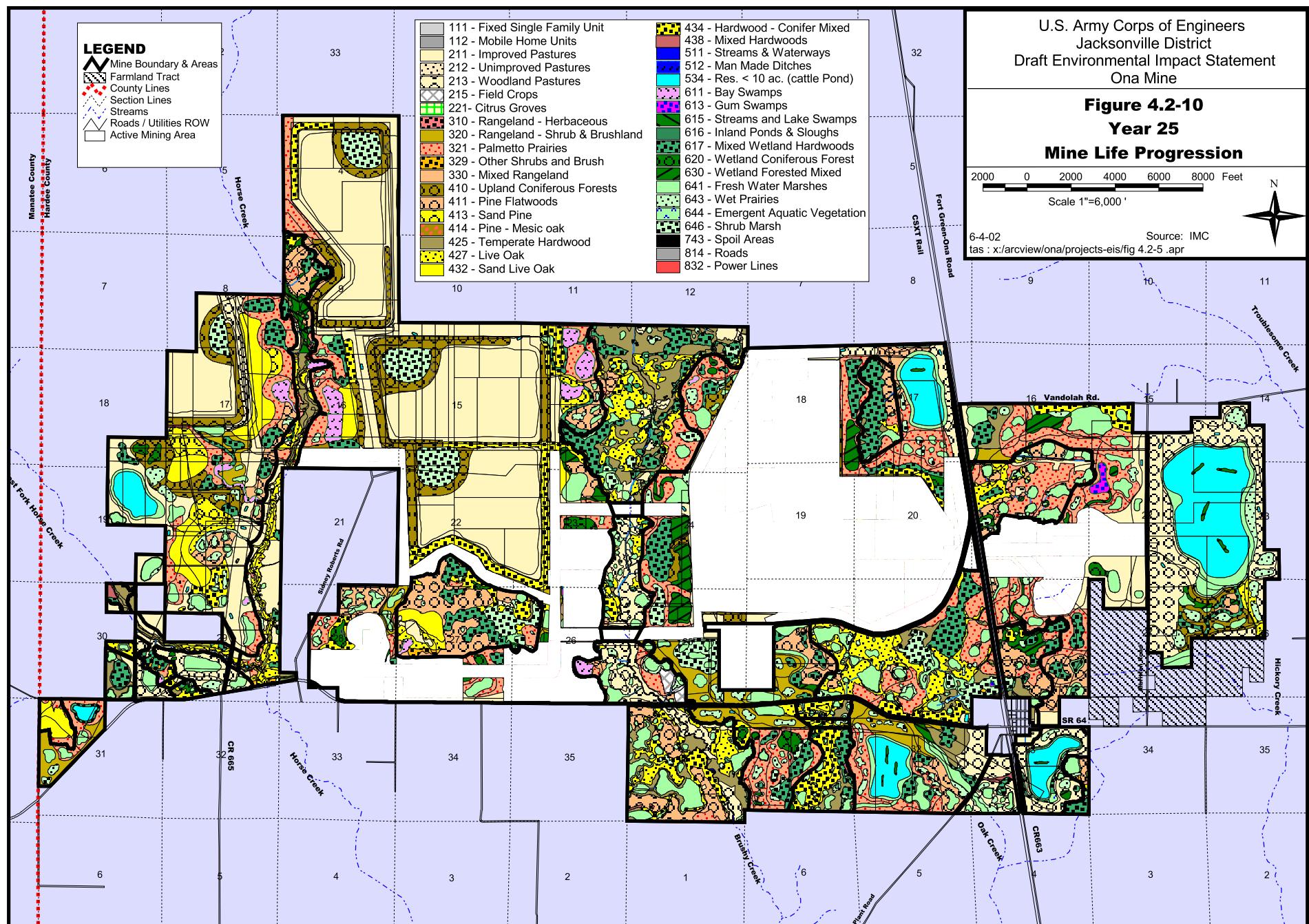
Mine Life Progression

2000 0 2000 4000 6000 8000 Feet

Scale 1"=6,000'



6-4-02
tas : x:/arcview/ona/projects-eis/fig 4.2-5.apr
Source: IMC



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Figure 4.2-11

Year 30

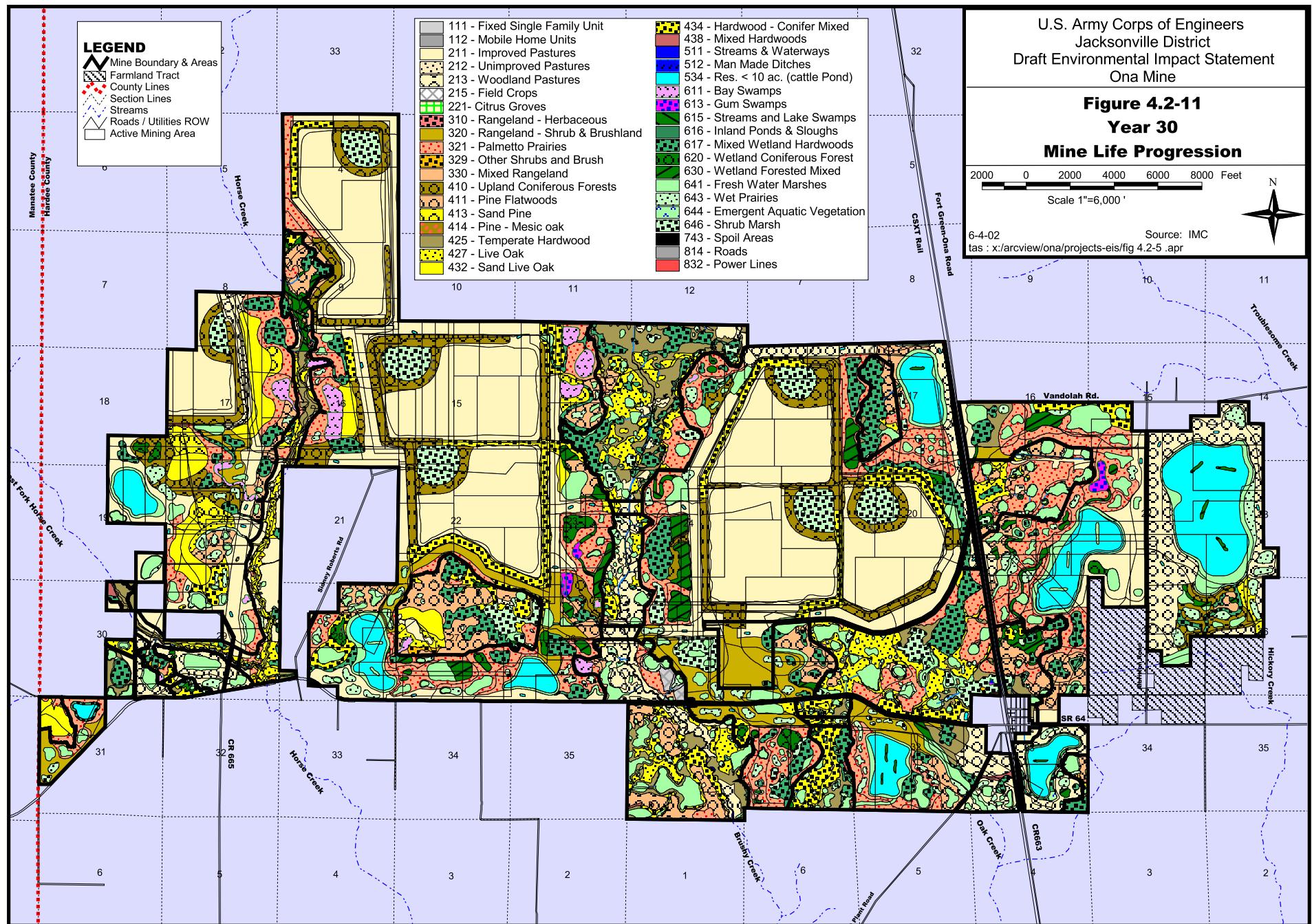
Mine Life Progression

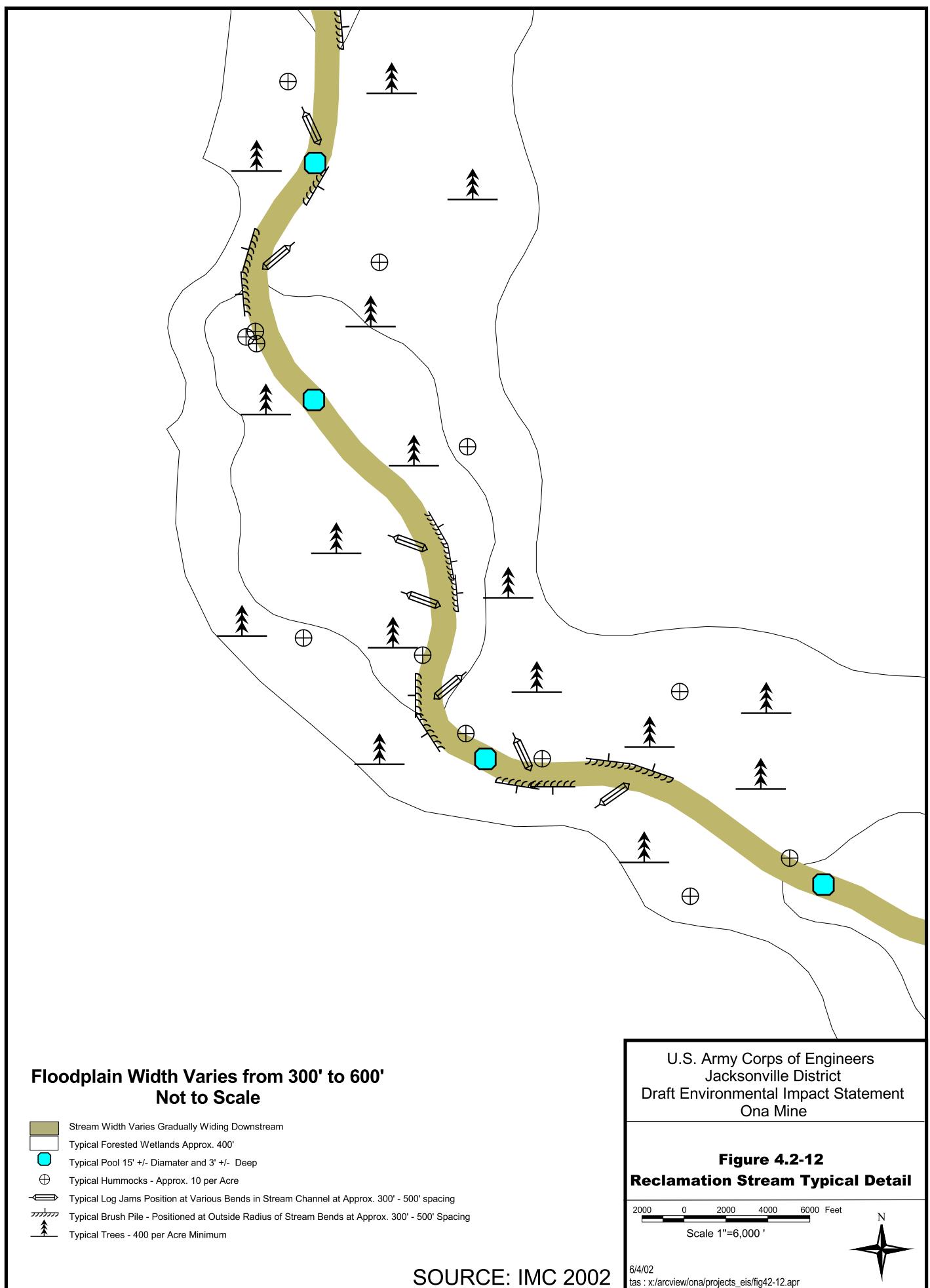
2000 0 2000 4000 6000 8000 Feet

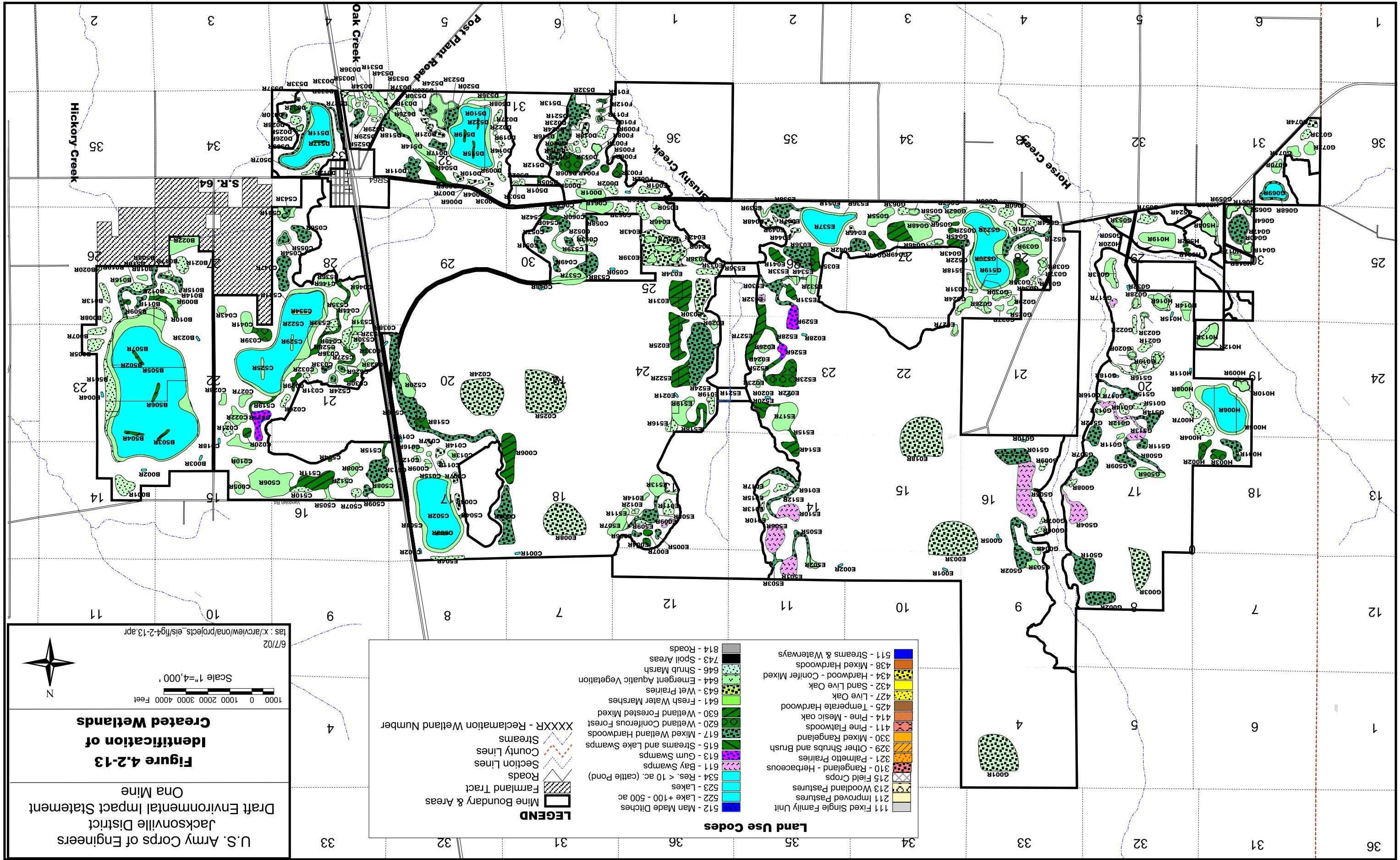
Scale 1"=6,000'



6-4-02 Source: IMC
tas : x:/arcview/ona/projects-eis/fig 4.2-5.apr

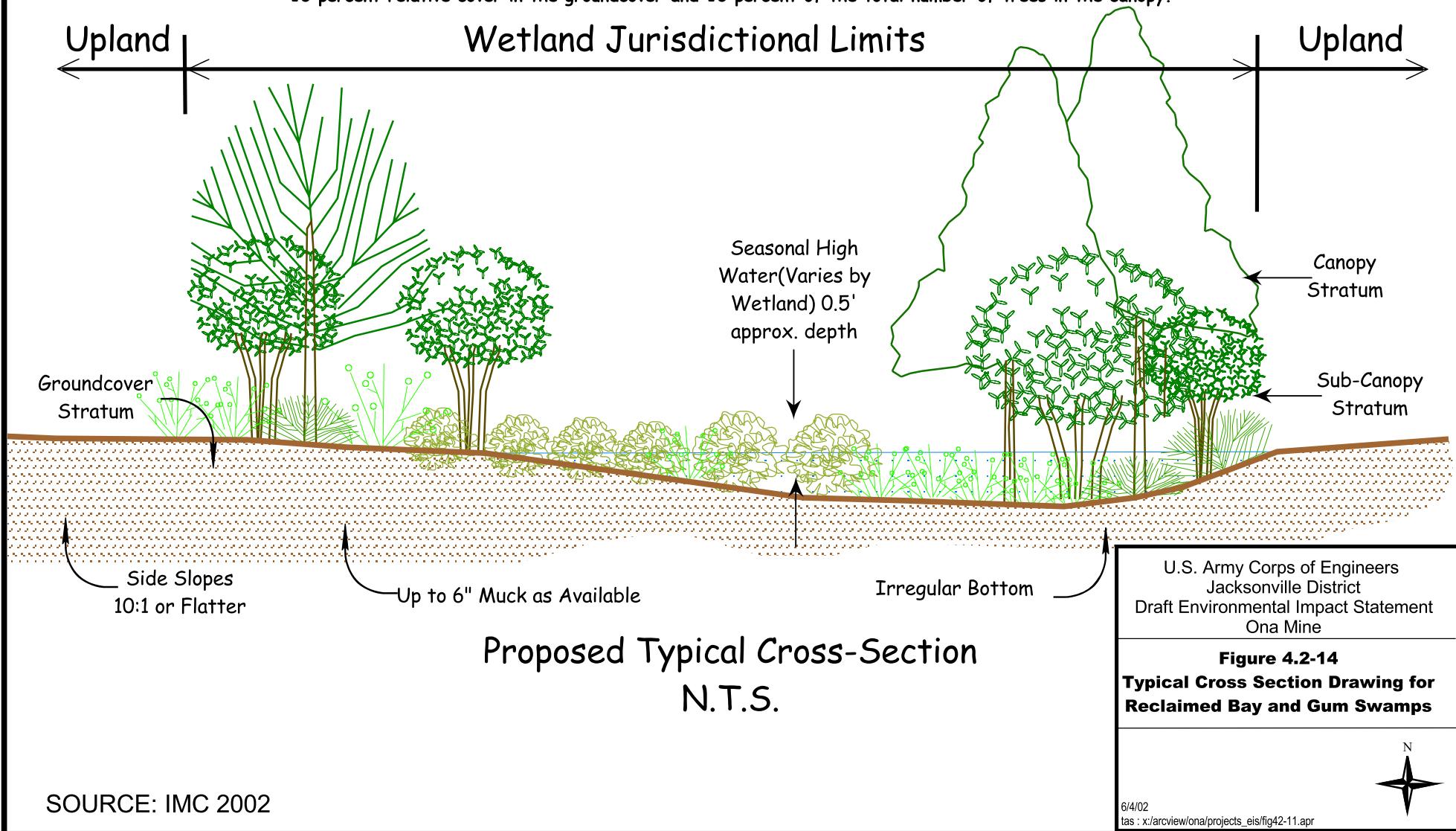






Bay & Gum Swamp (Fluccs-85 Code 611 / 613)

A minimum of 70 percent of the number of trees and 70 percent cover of the groundcover vegetation will consist of plants listed as "Typical", "Associated" or "Additional" species for Bay & Gum Swamps in "A Guide to Selected Florida Wetland Plants and Communities" published by the U.S. Army Corps of Engineers Jacksonville District in 1988 (pages 61 and 316-317). In addition 50 percent of the 70 percent of trees will be some combination of species listed as "Typical" (sweet bay, loblolly bay black gum and swamp bay) and two species listed as "Additional" (black gum and red bay). Tree density will be equal to or greater than 400 trees per acre with trees equal to or greater than 12 feet in height. Exotic/nuisance species will not exceed 10 percent relative cover in the groundcover and 10 percent of the total number of trees in the canopy.

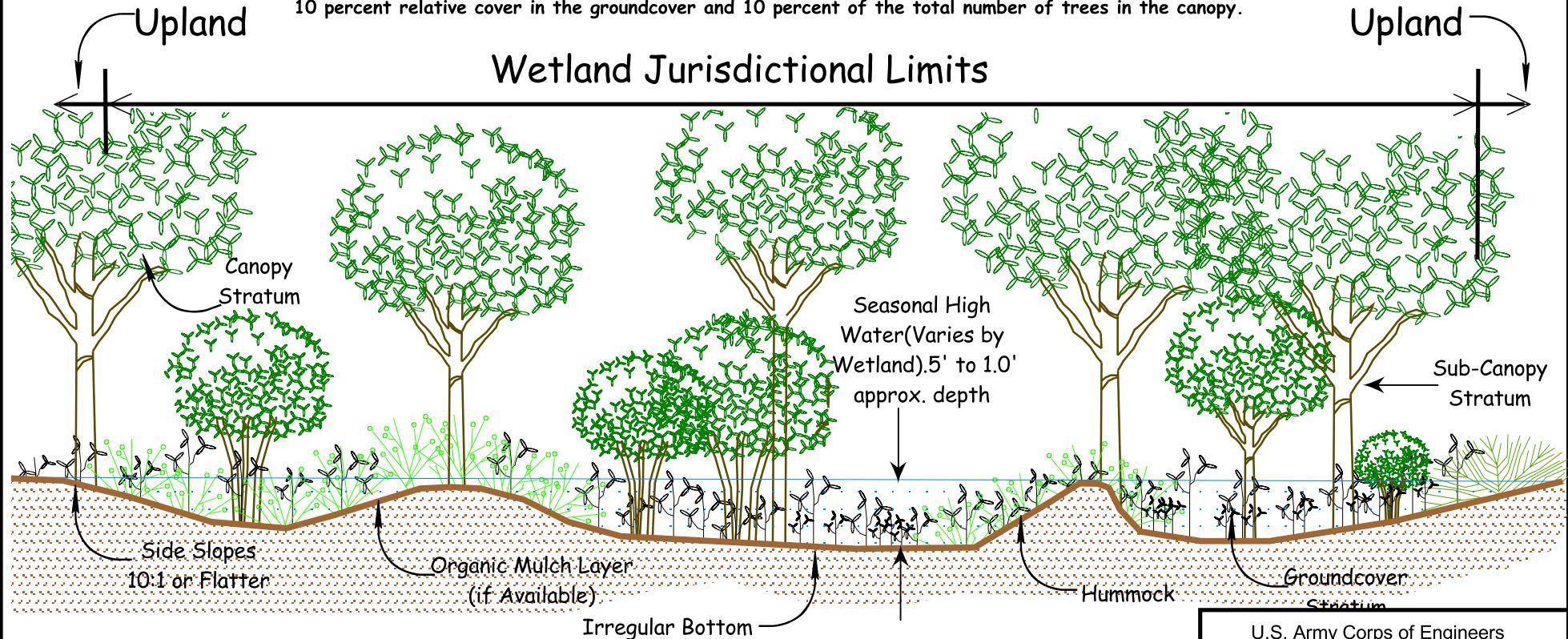


SOURCE: IMC 2002

Hardwood Swamp (Fluccs-85 Code 615/616/617)

A minimum of 70 percent of the total number of trees and 70 percent cover of the groundcover vegetation will consist of plants listed as "Typical", "Associated" or "Additional" species for Deep Swamps in "A Guide to Selected Florida Wetland Plants and Communities" published by the U.S. Army Corps of Engineers Jacksonville District in 1988 (pages 57 and 314-315). Tree density will be equal to or greater than 400 trees per acre with trees equal to or greater than 12 feet in height. Exotic/nuisance species will not exceed

10 percent relative cover in the groundcover and 10 percent of the total number of trees in the canopy.



Proposed Typical Cross-Section
N.T.S.

SOURCE: IMC 2002

11/20/01
tas : x:/arcview/ona/projects_eis/fig42-12.apr

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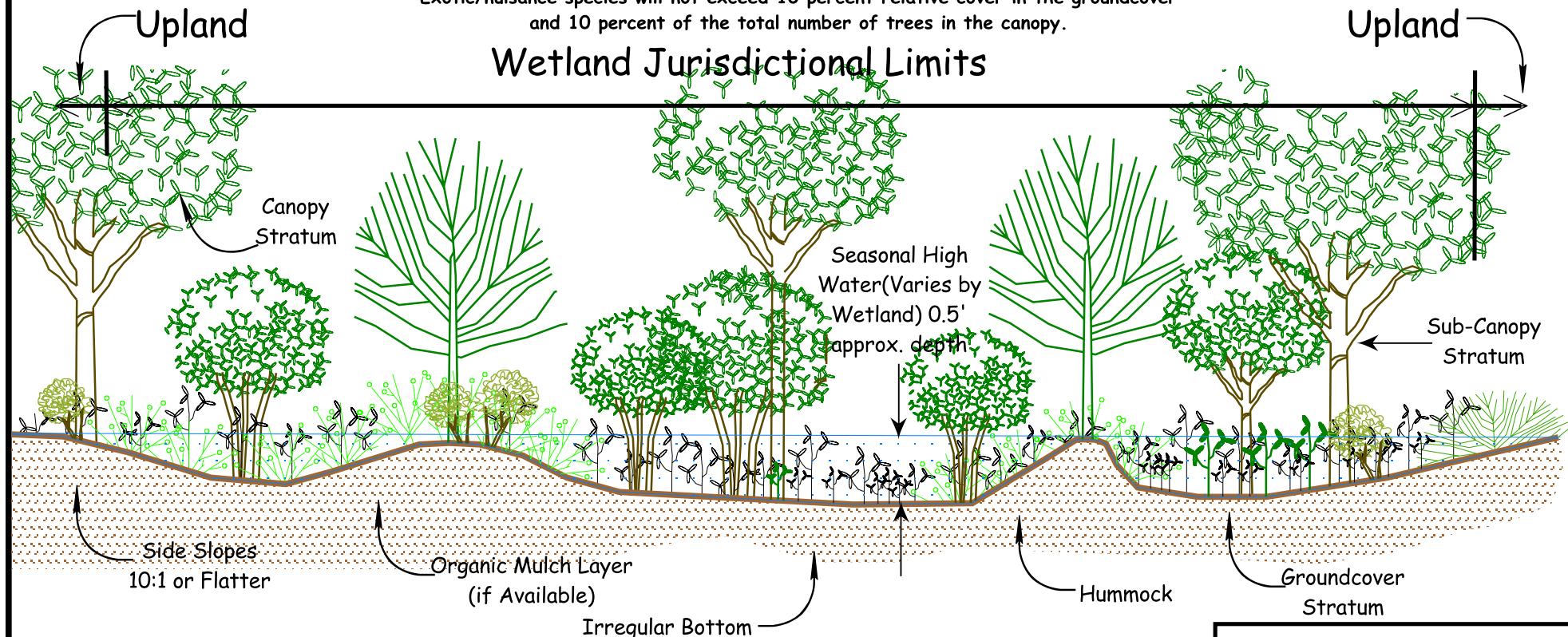
Figure 4.2-15
Typical Cross Section Drawing for
Reclaimed Mixed Hardwood Swamp



Mixed Forest Swamp (Fluccs-85 Code 630)

A minimum of 70 percent of the total number of trees and 70 percent cover of the groundcover vegetation will consist of plants listed as "Typical", "Associated" or "Additional" species for Deep Water Swamps in "A Guide to Selected Florida Wetland Plants and Communities" published by the U.S. Army Corps of Engineers Jacksonville District in 1988 (pages 57 and 314-315). Tree density will be equal to or greater than 400 trees per acre with trees equal to or greater than 12 feet in height. Native conifers will compose between 33 and 67 percent of the total number of trees in the canopy.

Exotic/nuisance species will not exceed 10 percent relative cover in the groundcover and 10 percent of the total number of trees in the canopy.



Proposed Typical Cross-Section
N.T.S.

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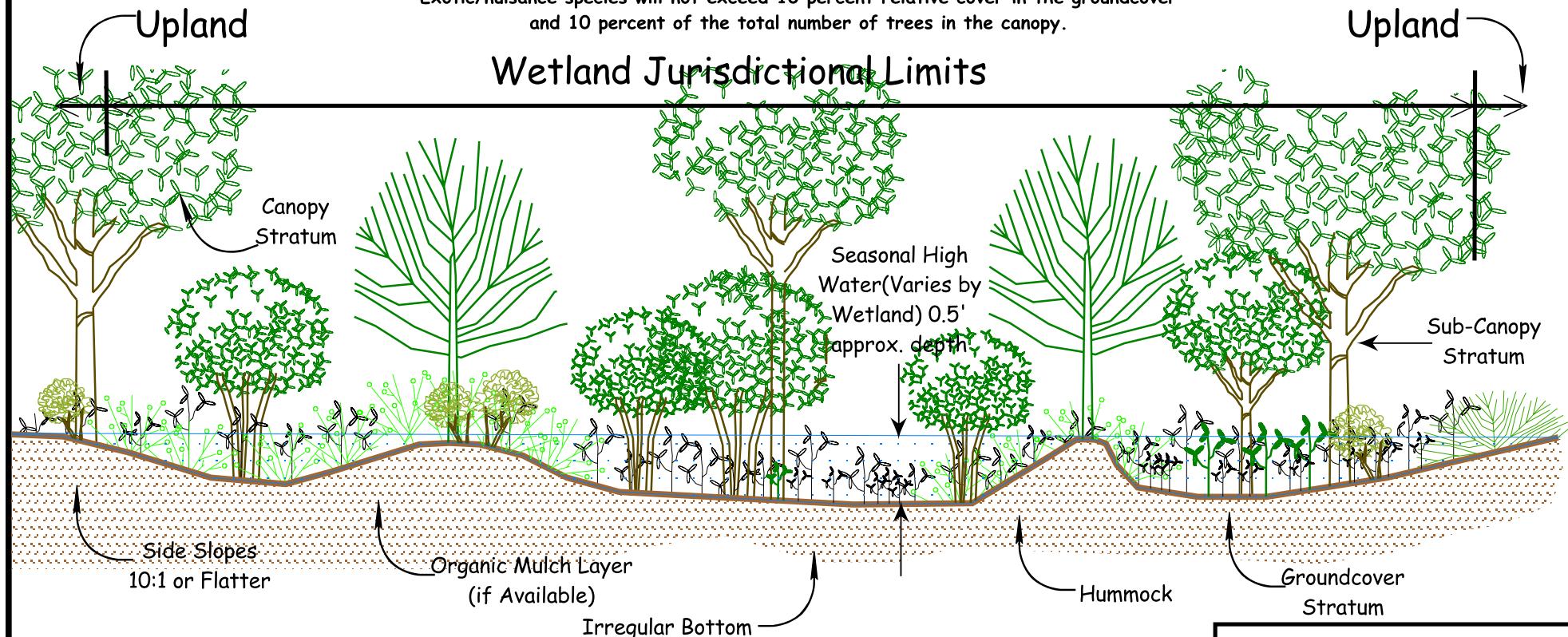
Figure 4.2-16
Typical Cross Section Drawing
for a Reclaimed Mixed
Hardwood-Coniferous Swamp



Wetland Coniferous (Fluccs-85 Code 620)

A minimum of 70 percent of the total number of trees and 70 percent cover of the groundcover vegetation will consist of plants listed as "Typical", "Associated" or "Additional" species for Deep Water Swamps in "A Guide to Selected Florida Wetland Plants and Communities" published by the U.S. Army Corps of Engineers Jacksonville District in 1988 (pages 57 and 314-315). Tree density will be equal to or greater than 400 trees per acre with trees equal to or greater than 12 feet in height. Native conifers will compose between 33 and 67 percent of the total number of trees in the canopy.

Exotic/nuisance species will not exceed 10 percent relative cover in the groundcover and 10 percent of the total number of trees in the canopy.



Proposed Typical Cross-Section
N.T.S.

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Figure 4.2-17
Typical Cross Section
Drawing for Reclaimed
Wetland Coniferous Forest

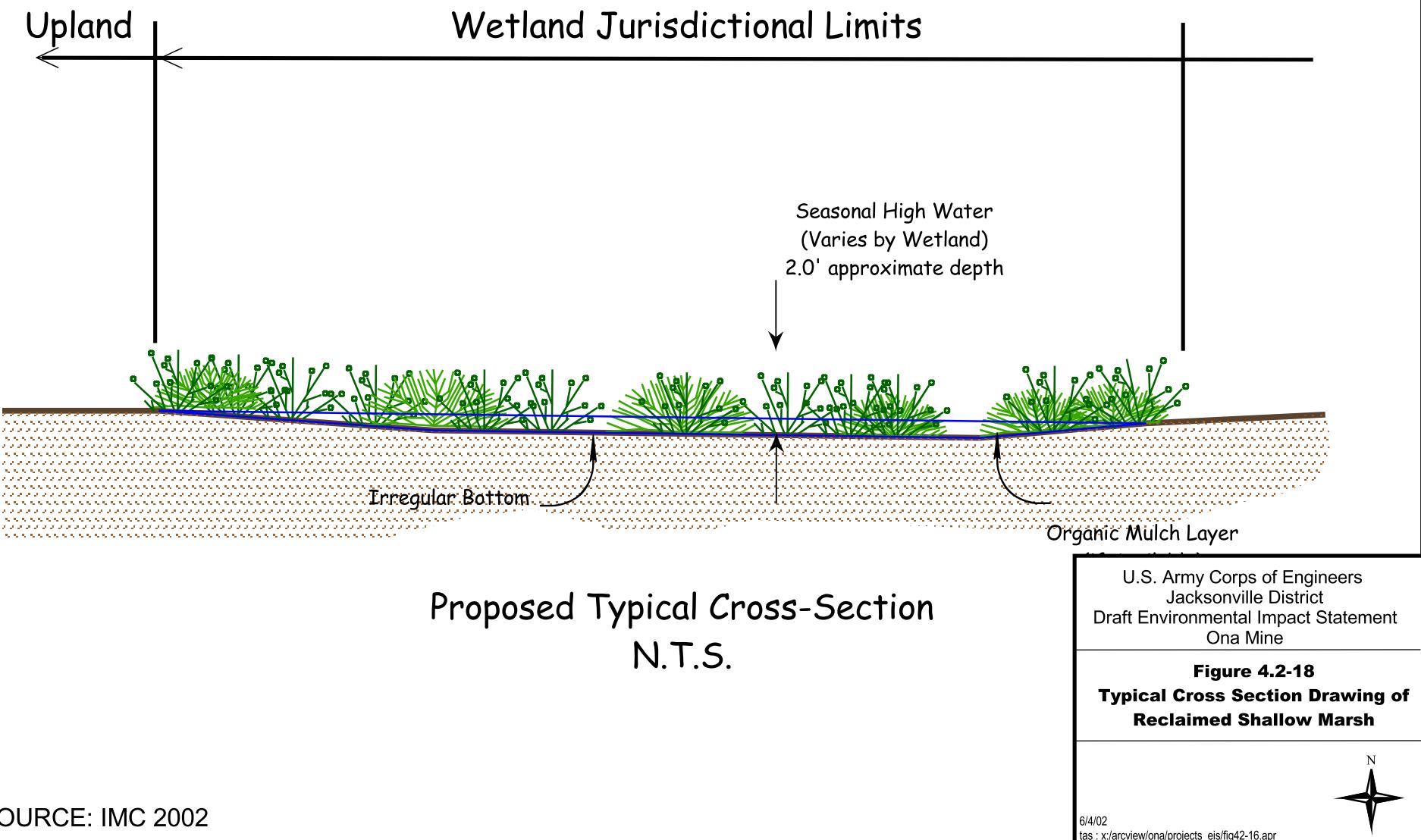
SOURCE: IMCA 2002

11/20/01
tas : x:/arcview/ona/projects_eis/fig42-14.apr



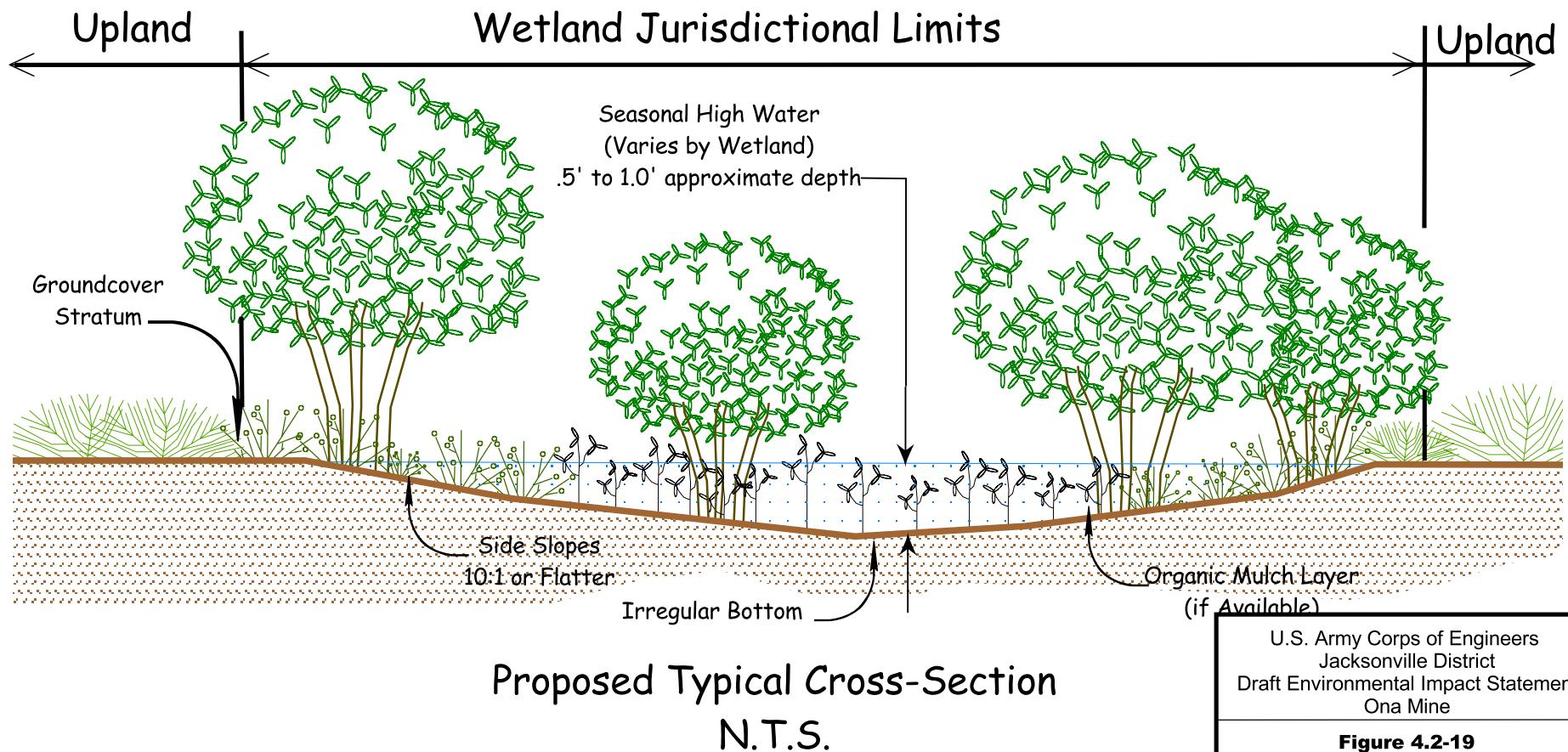
Shallow Marsh (Fluccs-85 Code 640 \ 641)

A minimum of 70 percent vegetation cover will consist of plants listed as "Typical", "Associated" or "Additional" species for Shallow Marshes in "A Guide to Selected Florida Wetland Plants and Communities" published by the U.S. Army Corps of Engineers Jacksonville District in 1988 (pages 45 and 307-309). No single species will constitute greater than 30 percent relative cover. Exotic/nuisance species will not exceed 10 percent relative cover.



Shrub Marsh (Fluccs-85 Code 646)

A minimum of 70 percent vegetation cover will consist of plants listed as "Typical", "Associated" or "Additional" species for Shrub Swamps in "A Guide to Selected Florida Wetland Plants and Communities" published by the U.S. Army Corps of Engineers Jacksonville District in 1988 (pages 49 and 310). No single species will constitute greater than 30 percent relative cover. Exotic/nuisance species will not exceed 10 percent relative cover.



SOURCE: IMC 2002

6/4/02
tas : x:/arcview/ona/projects_eis/fig42-17.apr



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Figure 4.2-19
Typical Cross Section Drawing of a
Reclaimed Shrub Marsh Wetland

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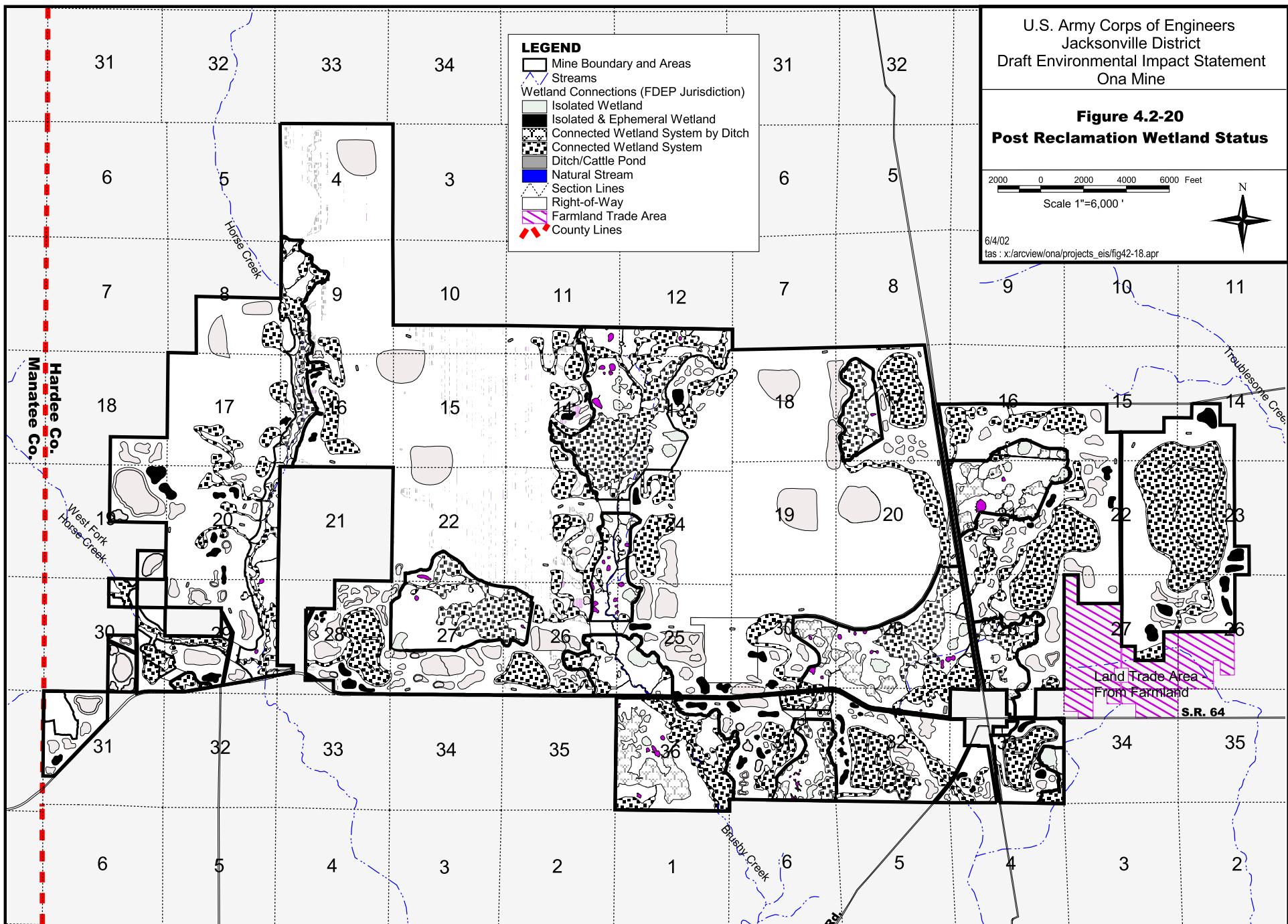
Figure 4.2-20
Post Reclamation Wetland Status

2000 0 2000 4000 6000 Feet

Scale 1"=6,000'

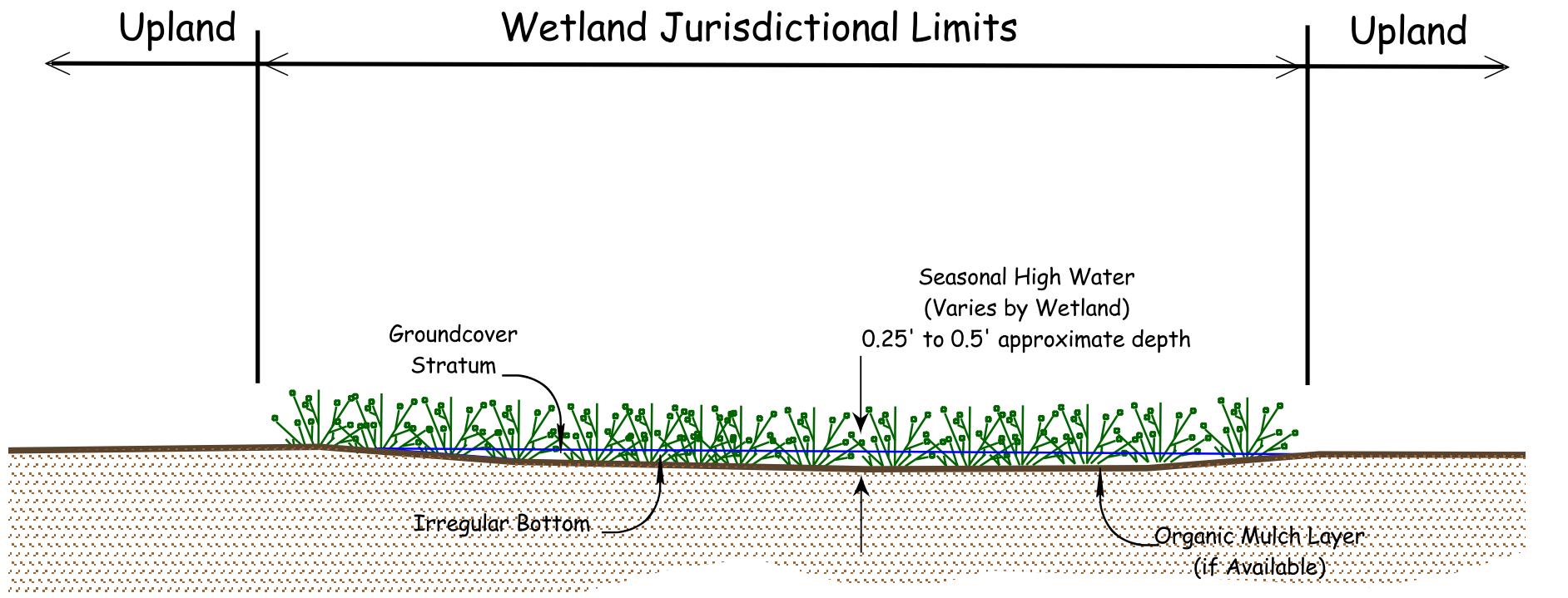


6/4/02 tas : x:/arcview/ona/projects_eis/fig42-18.apr



Wet Prairie (Fluccs-85 Code 643)

A minimum of 70 percent vegetation cover will consist of plants listed as "Typical", "Associated" or "Additional" species for Wet Prairies in "A Guide to Selected Florida Wetland Plants and Communities" published by the U.S. Army Corps of Engineers Jacksonville District in 1988 (pages 41 and 302-303). No single species will constitute greater than 30 percent relative cover. Exotic/nuisance species will not exceed 10 percent relative cover.



Proposed Typical Cross-Section
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Figure 4.2-21
Typical Cross Section Drawing for
a Reclaimed Wet Prairie

SOURCE: IMC 2002

11/20/01
tas : x:/arcview/ona/projects_eis/fig42-15.apr



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Figure 4.4-1
Polk & Hardee County
Gopher Tortoise Recipient Sites

2000 0 2000 Feet



Date: 6/6/02 Source: IMC, 2002
Filename: x:/arcview/ona/projects/eis/fig44-1.apr

Polk Co.
Hardee Co.

Legend

- Gopher Tortoise Recipient Sites** (represented by a black rectangle)
- County Lines** (represented by a red dashed line)
- Section Lines** (represented by a blue dashed line)
- Streams** (represented by a blue wavy line)

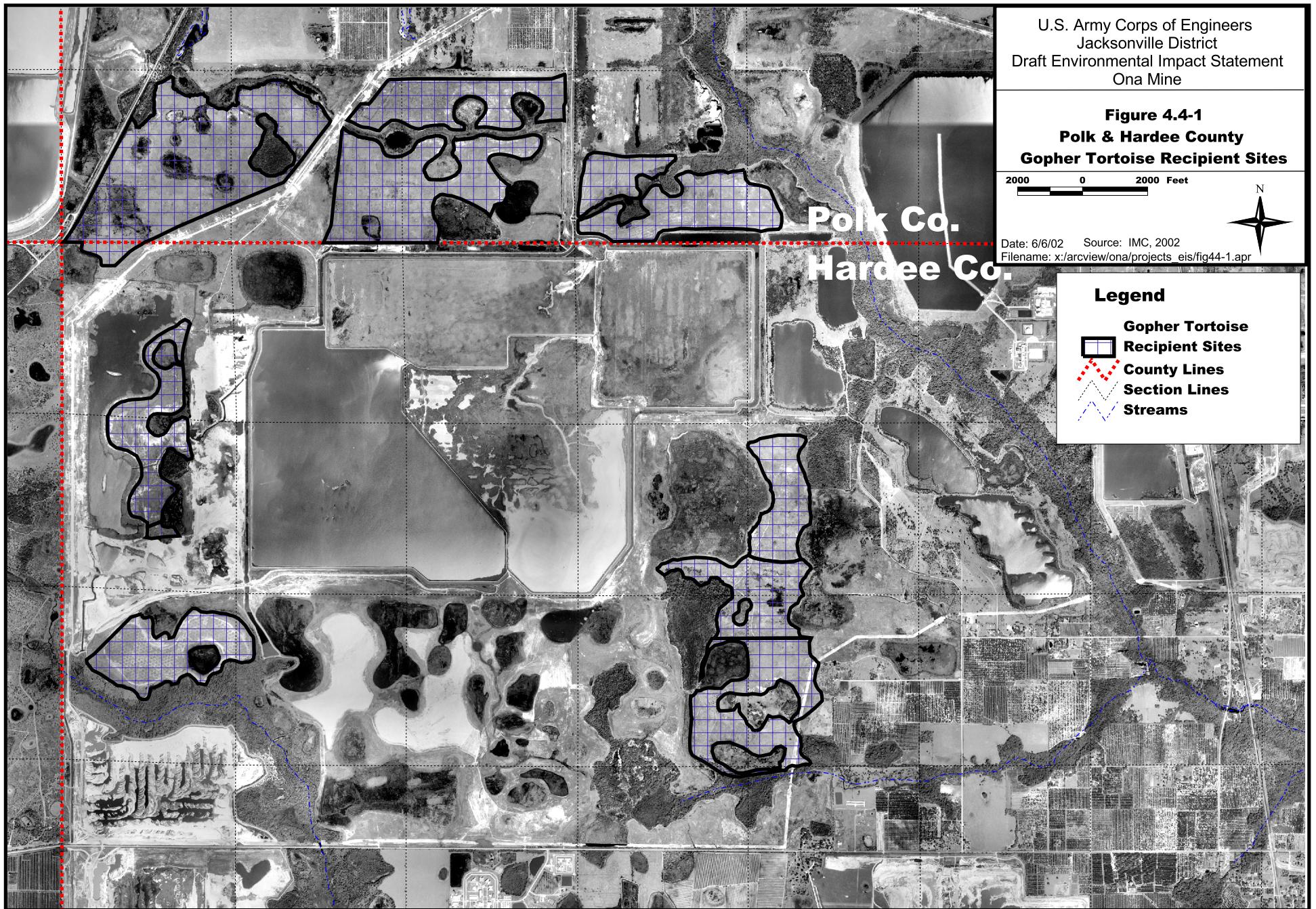


Figure 4.5-1
Cross Section of Ditch and Berm System

Source:
IMC, 2002.

DITCH AND BERM SYSTEM

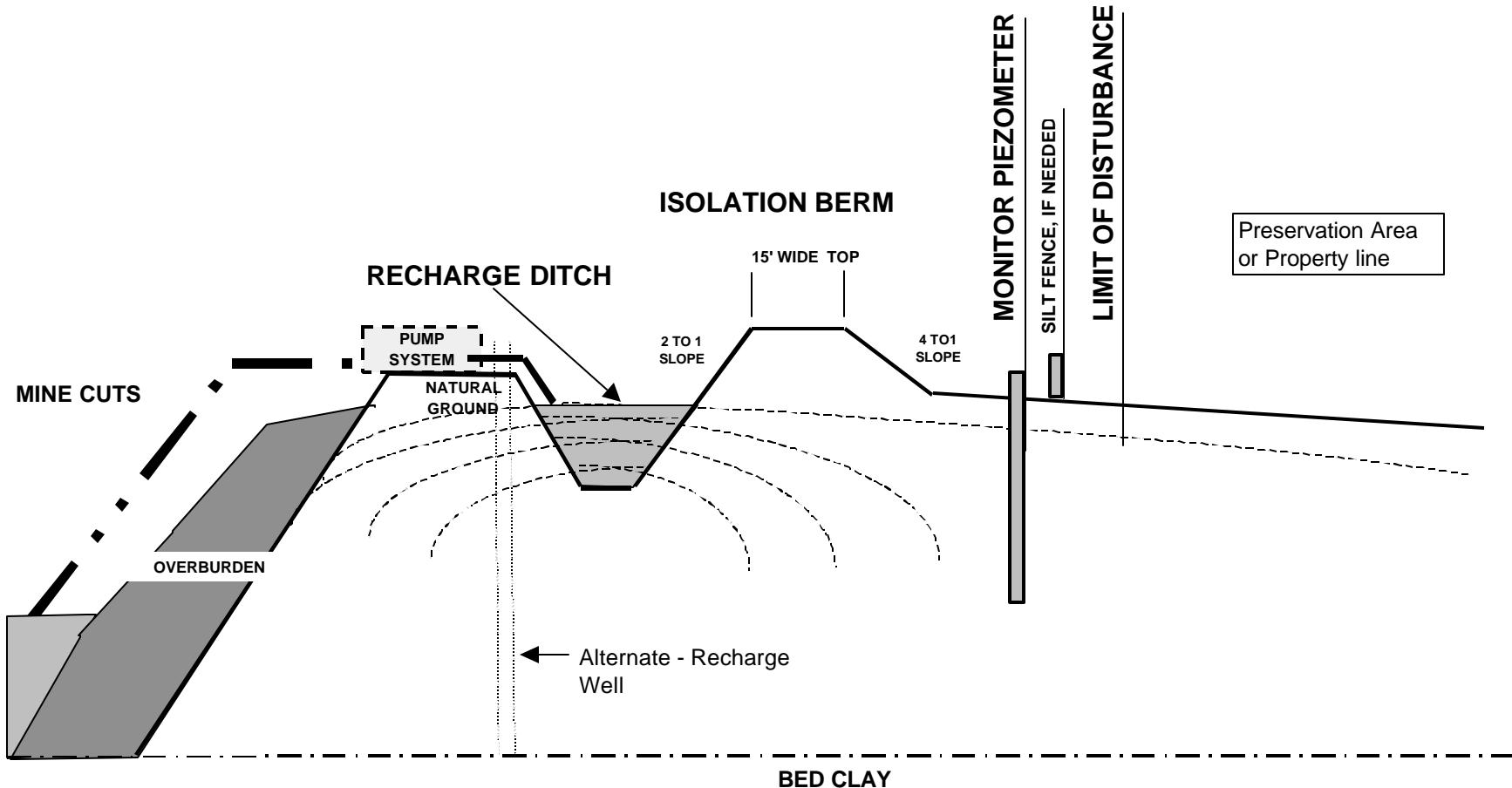
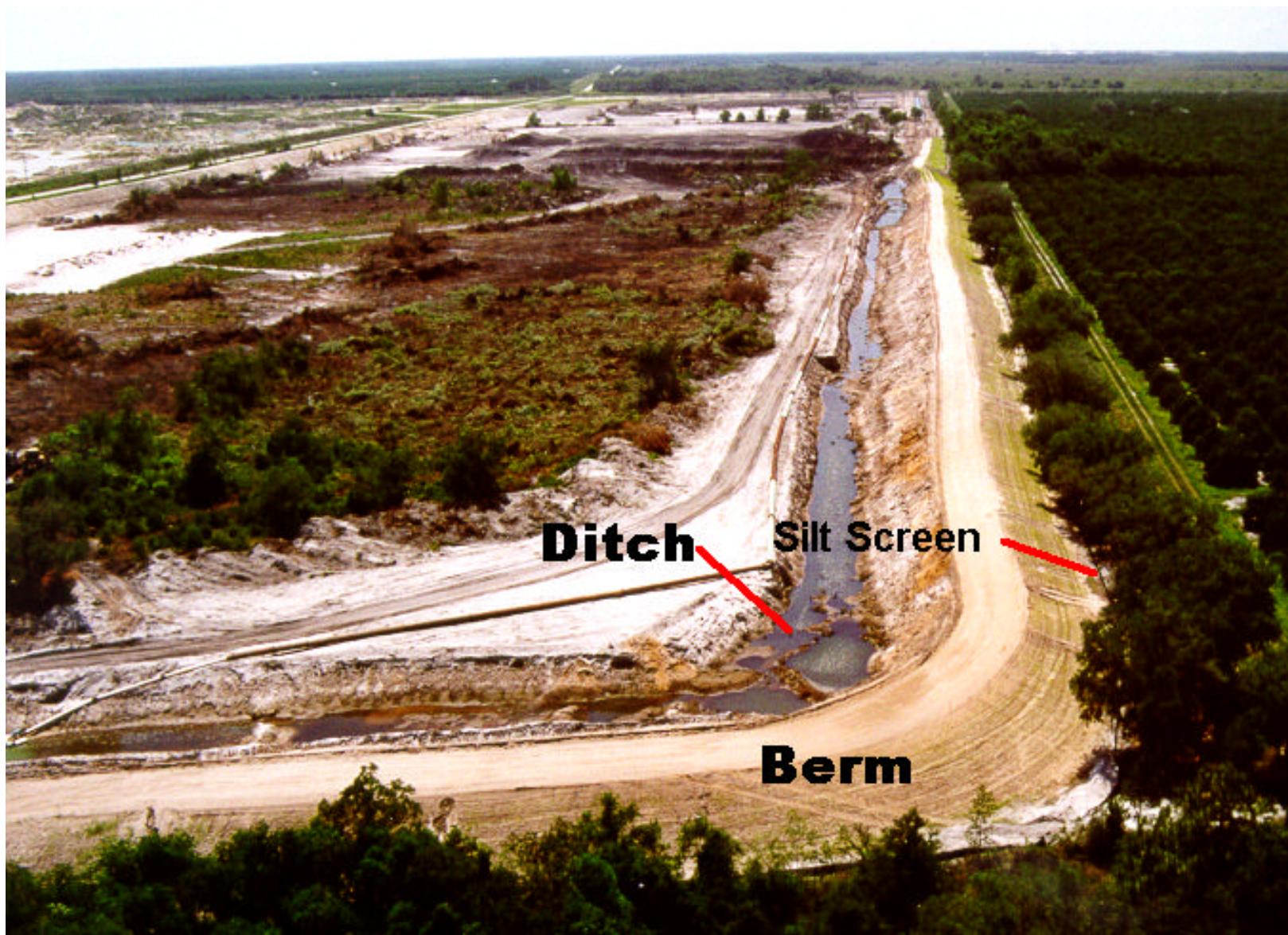


Figure 4.5-2

Example of Ditch and Berm System - Close-up

Source:
IMC, 2002.



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Figure 4.5-3

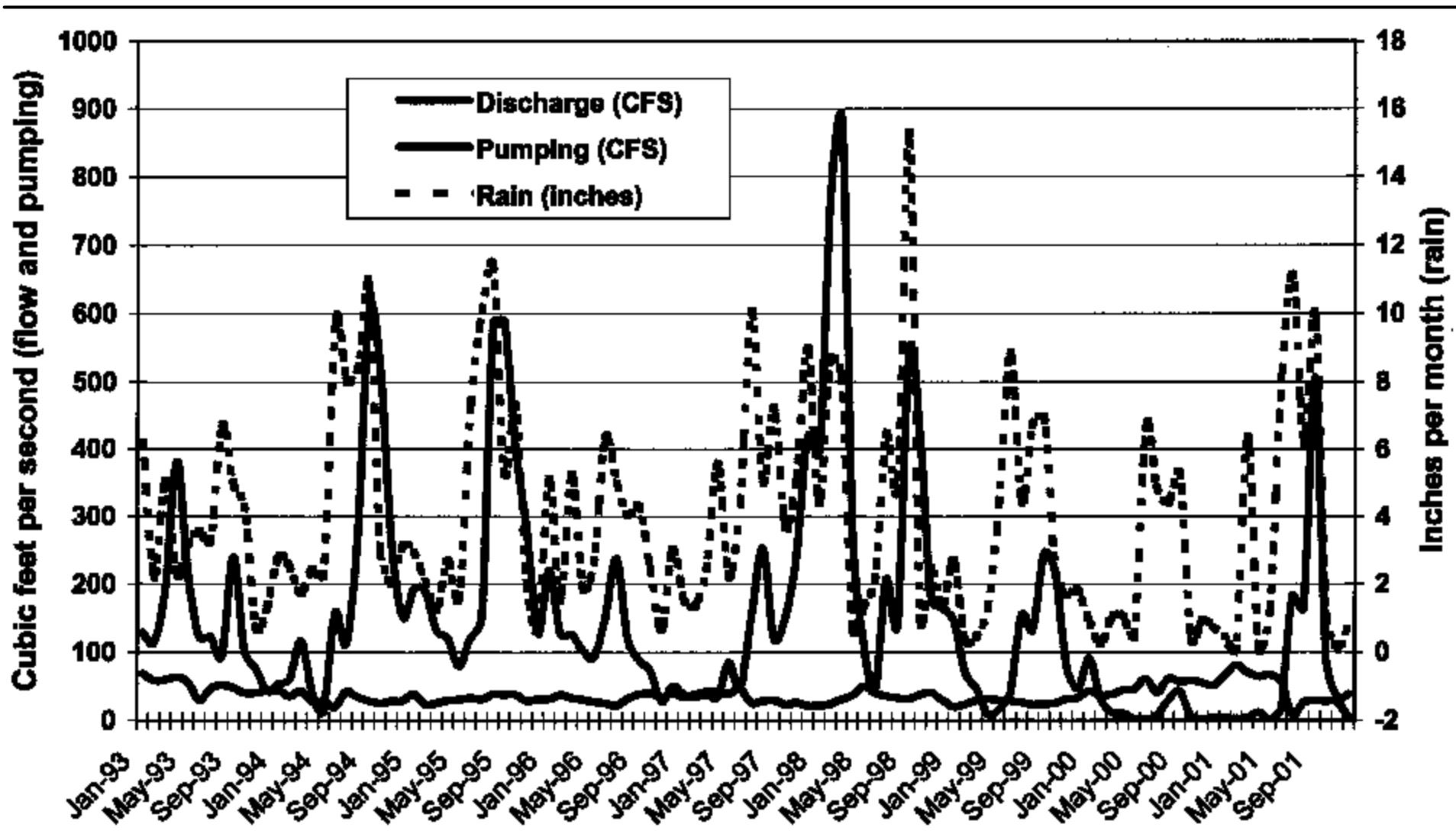
Example of Ditch and Berm System Separating Mine
Area from Adjacent Area

Source:
IMC, 2002.



Figure 4.5-4
Pumping and Discharge Volumes - IMC Phosphates
1993-2000 All Mining Operations

Source:
IMC, 2002.

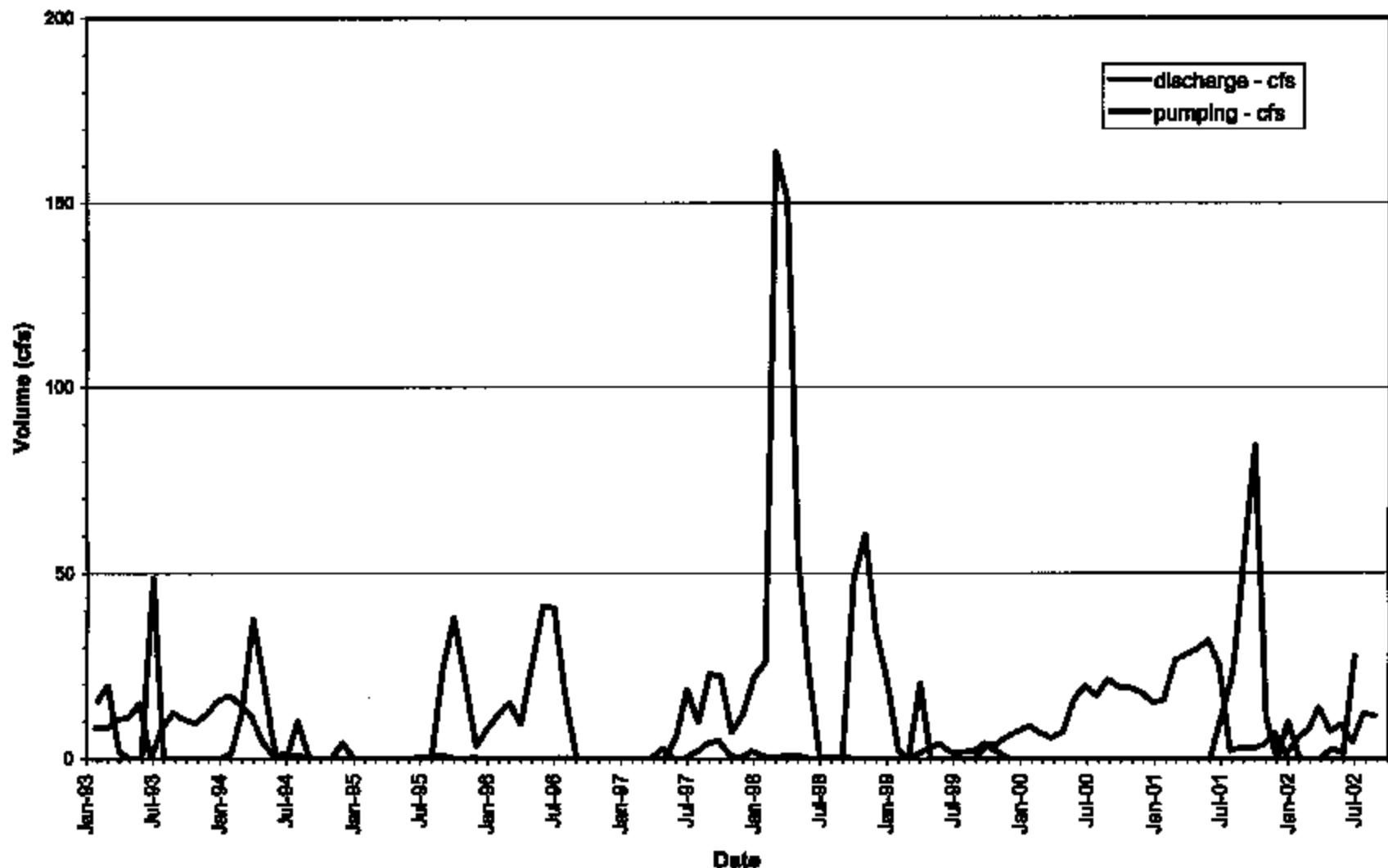


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Figure 4.5-5

Pumping and Discharge Volumes - IMC Phosphates
1993-2000 Four Corners Operations

Source:
IMC, 2002.



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Figure 4.5-6
Post Reclamation
Drainage

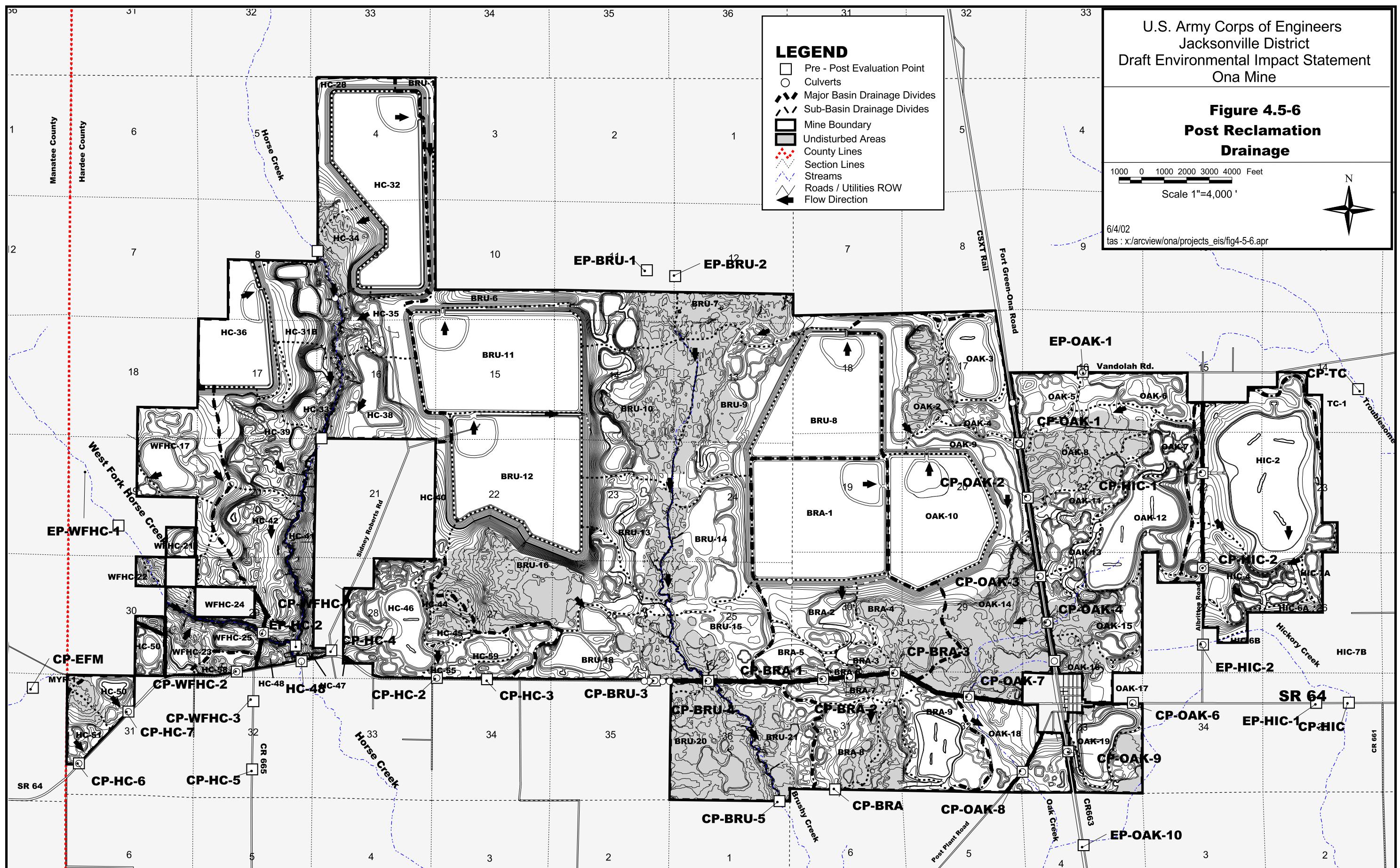


Figure 4.5-7
Brady Tributary at Ona Mine

Source:
IMC, 2002.

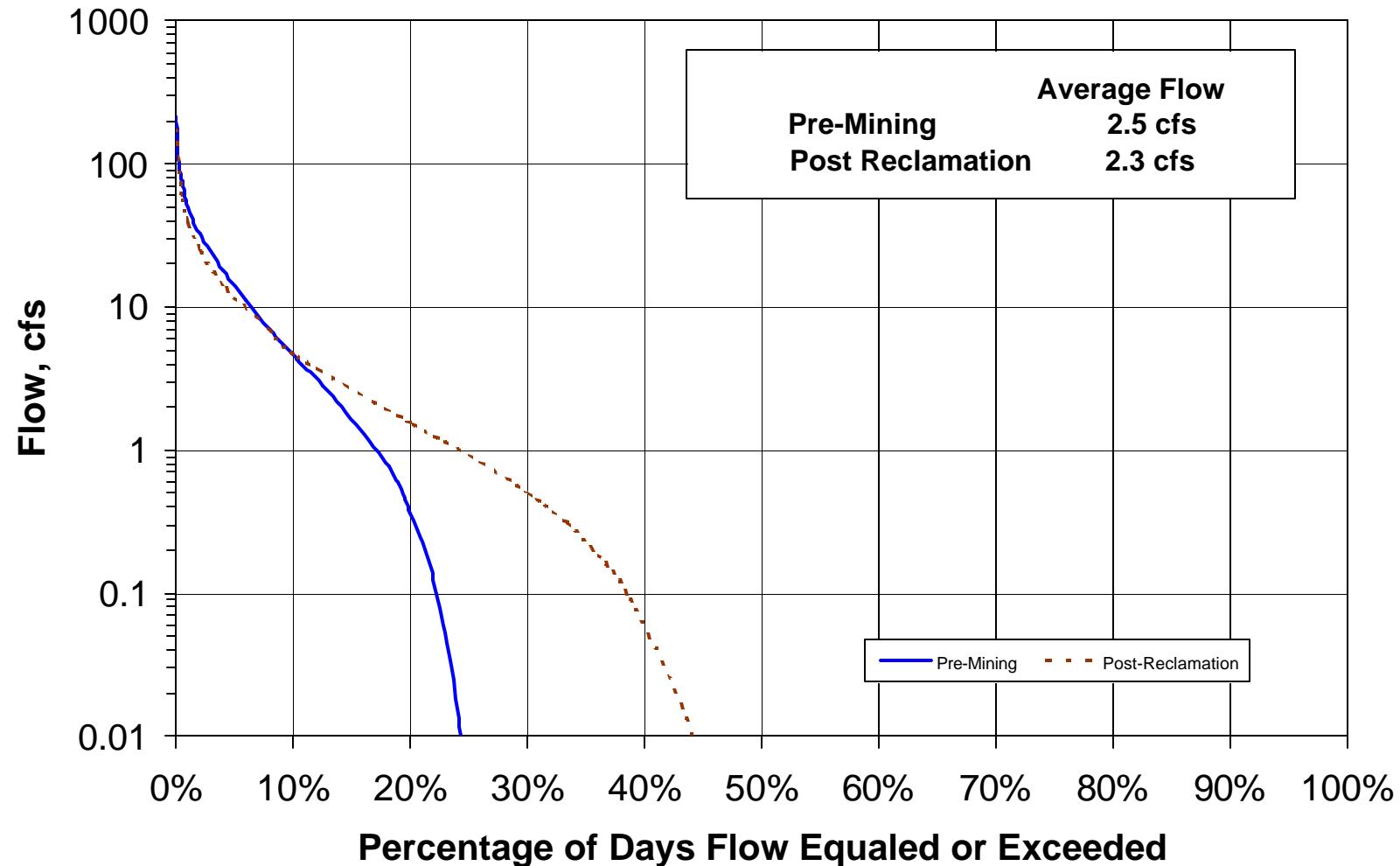


Figure 4.5-8
Brushy Creek at Ona Mine

Source:
IMC, 2002.

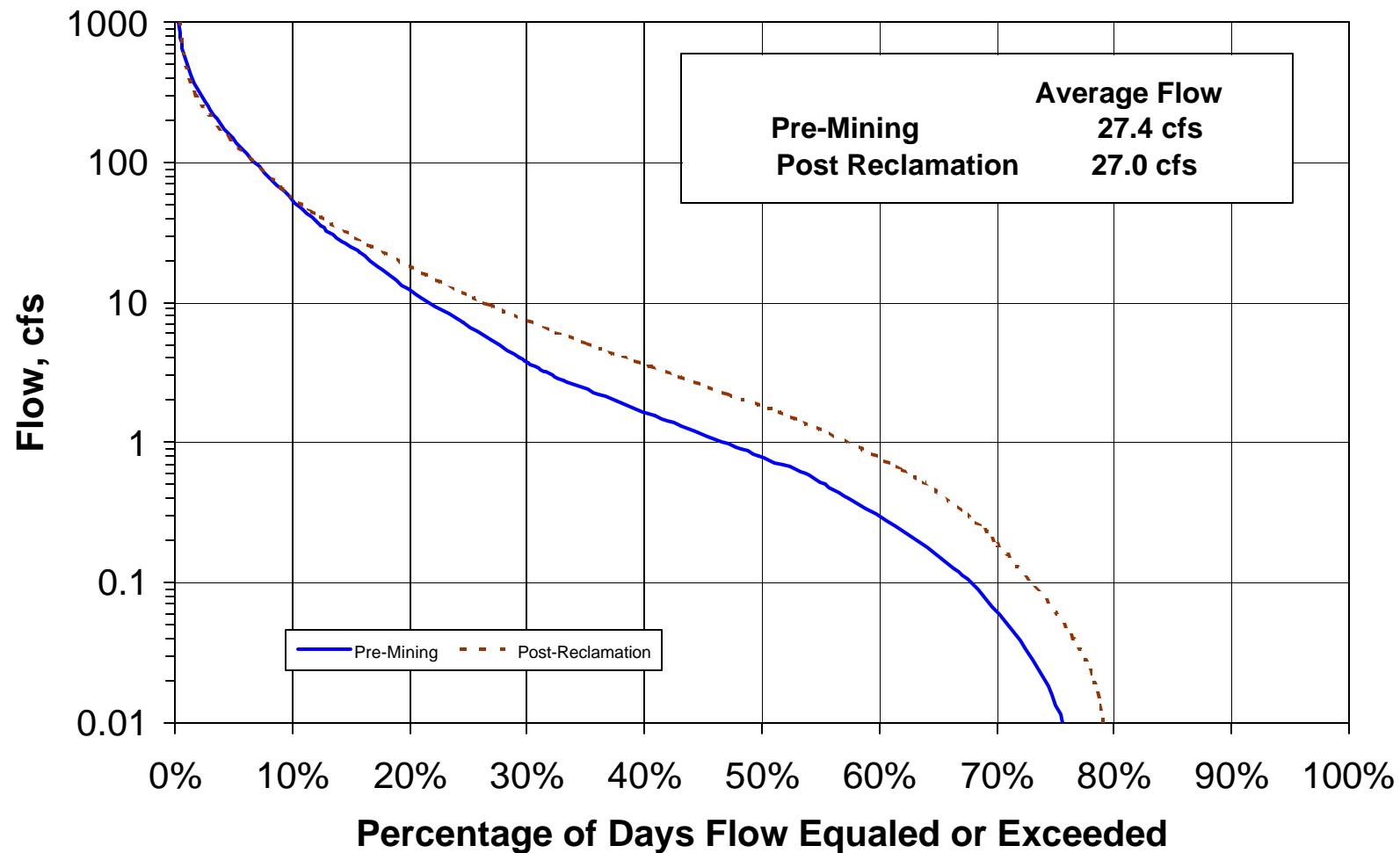


Figure 4.5-9
Hickory Creek at Ona Mine

Source:
IMC, 2002.

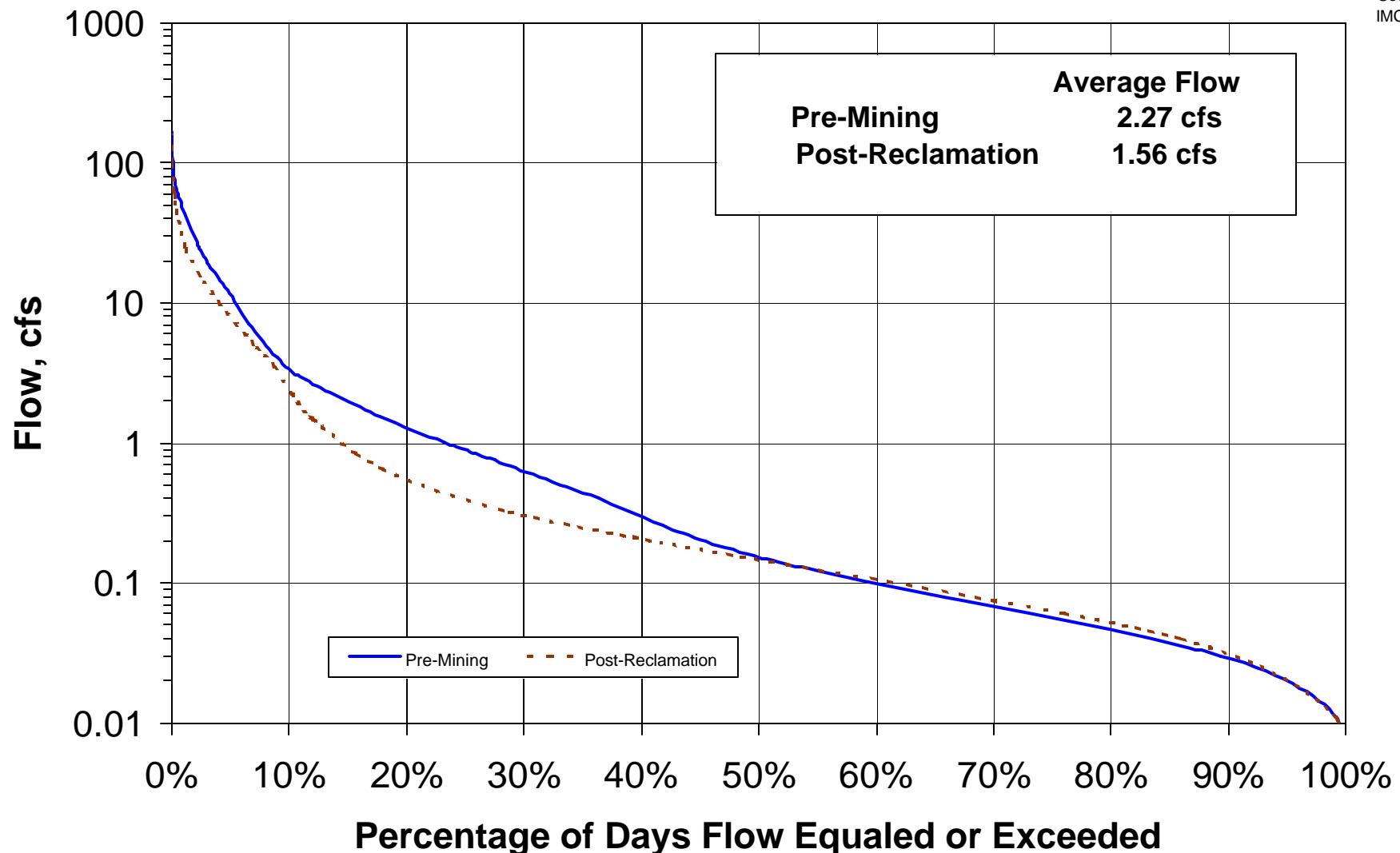


Figure 4.5-10
Oak Creek at Ona Mine

Source:
IMC, 2002.

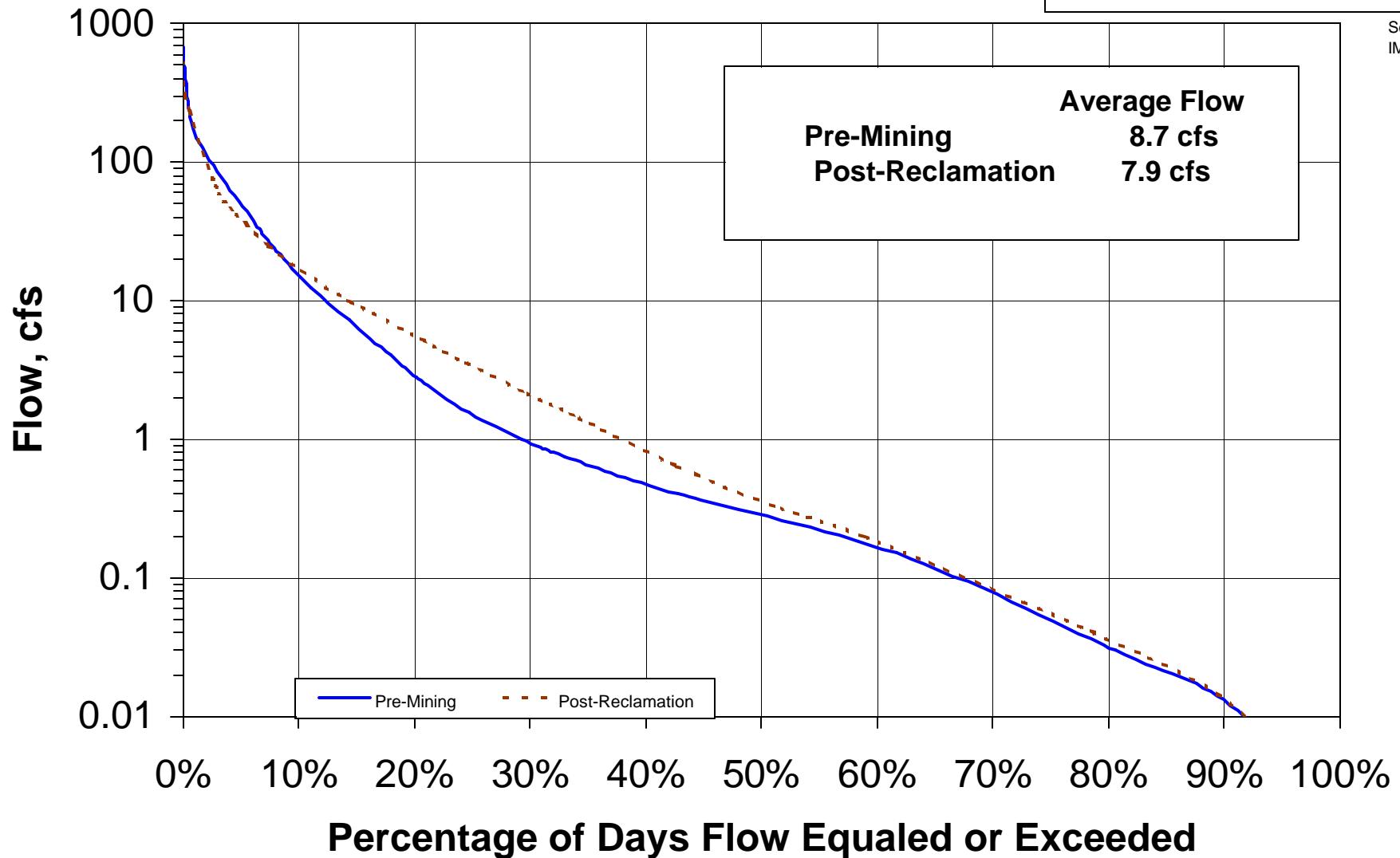


Figure 4.5-11
Horse Creek at State Highway 64

Source:
IMC, 2002.

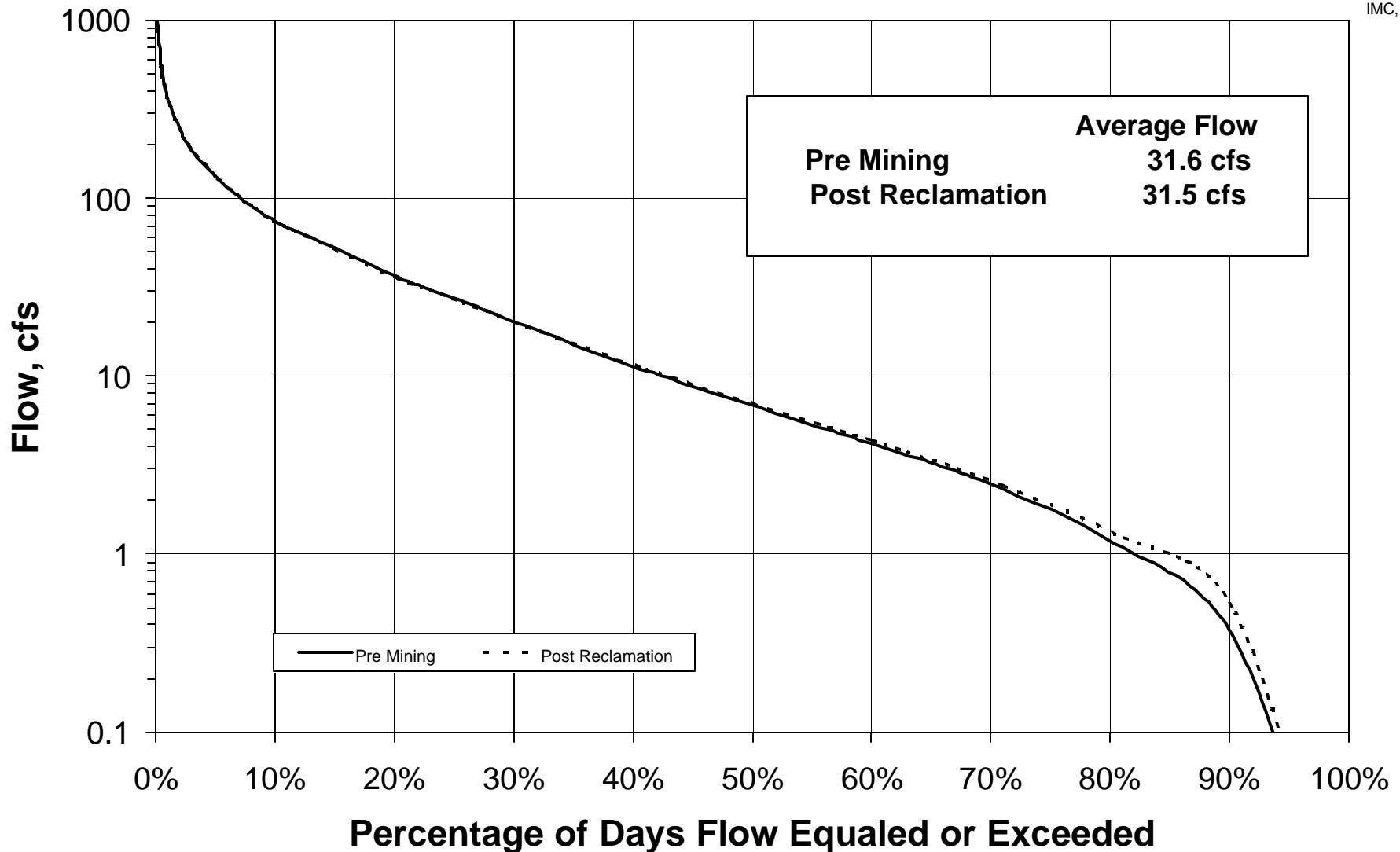


Figure 4.5-12
Horse Creek at State Highway 72

Source:
IMC, 2002.

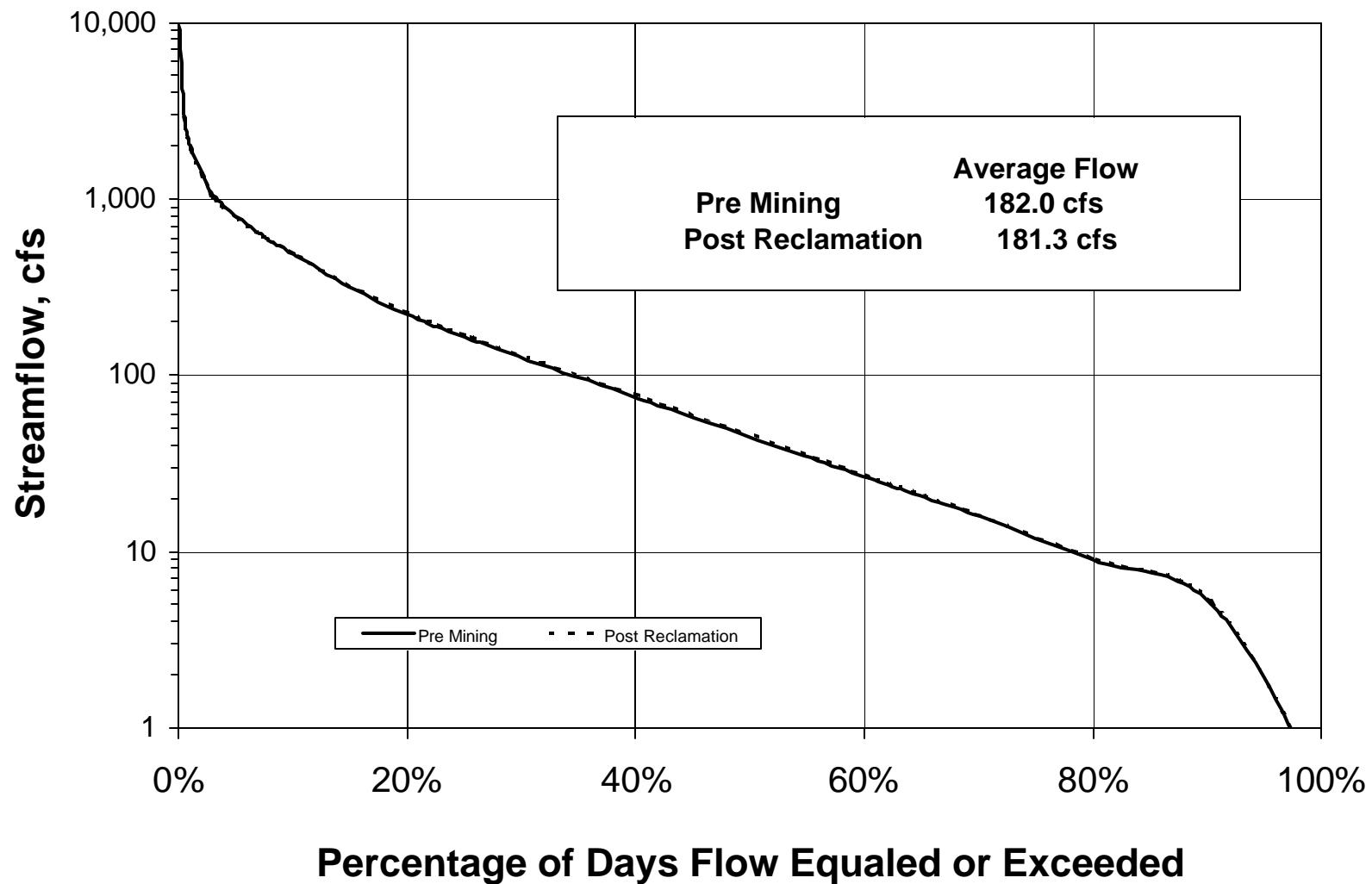
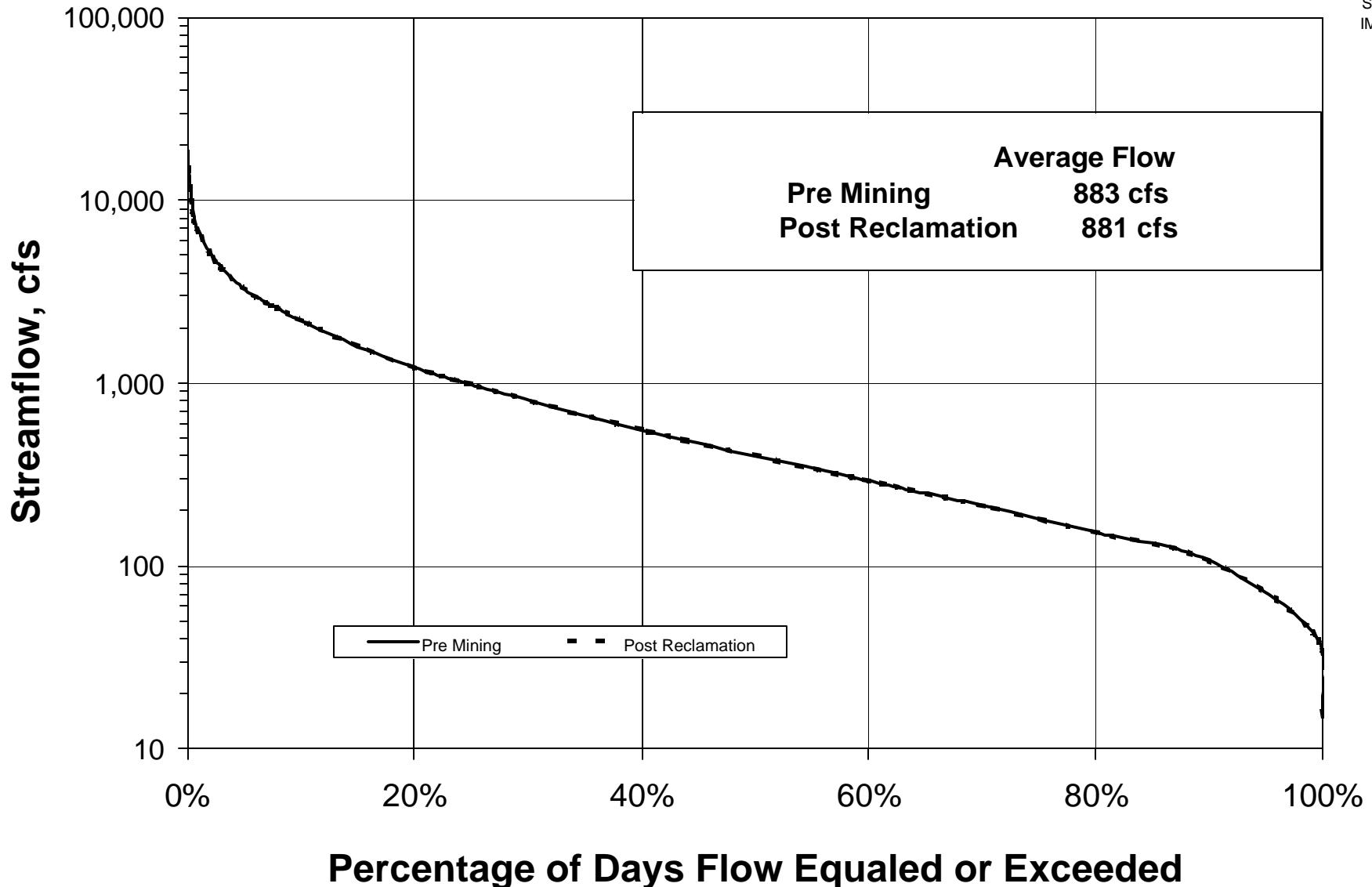
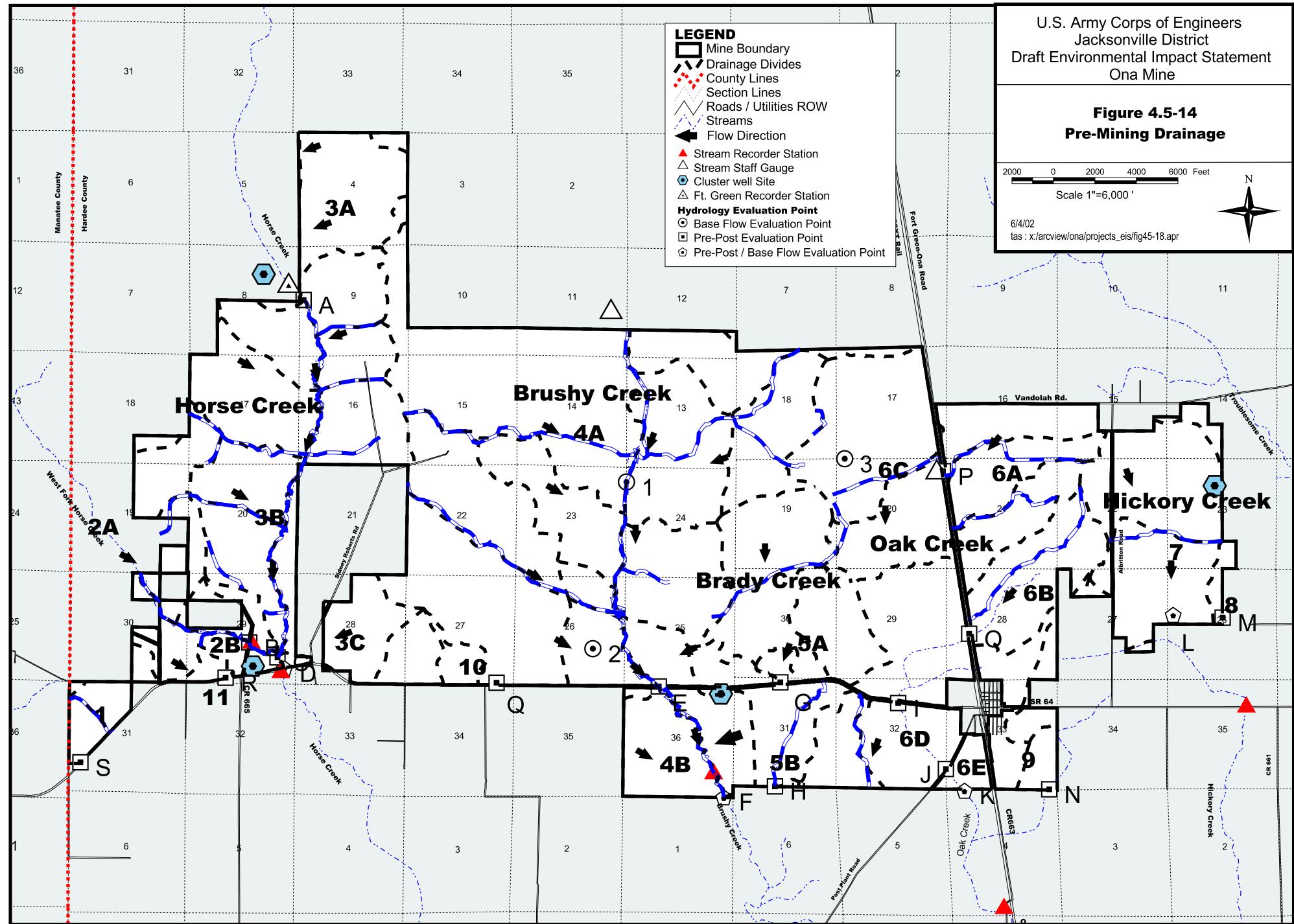
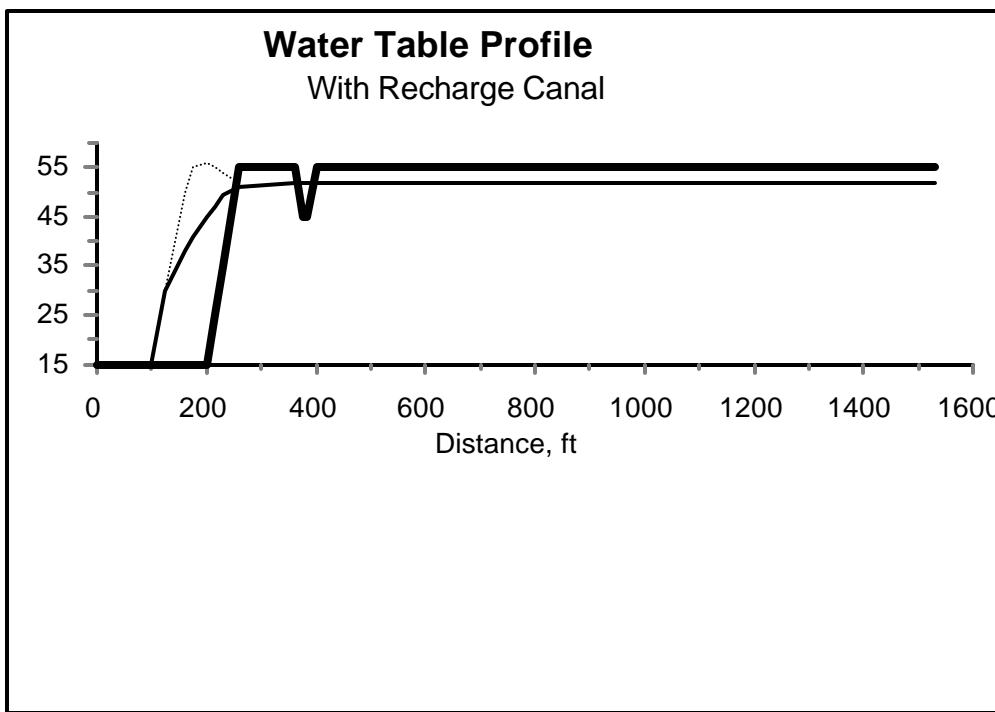
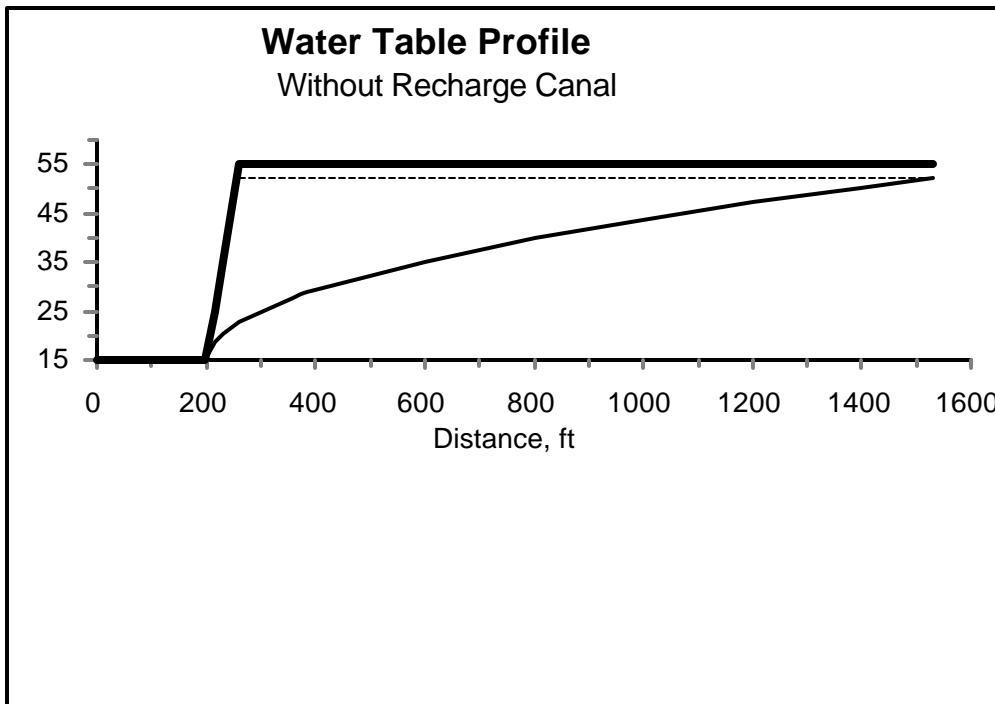


Figure 4.5-13
Peace River at Arcadia

Source:
IMC, 2002.







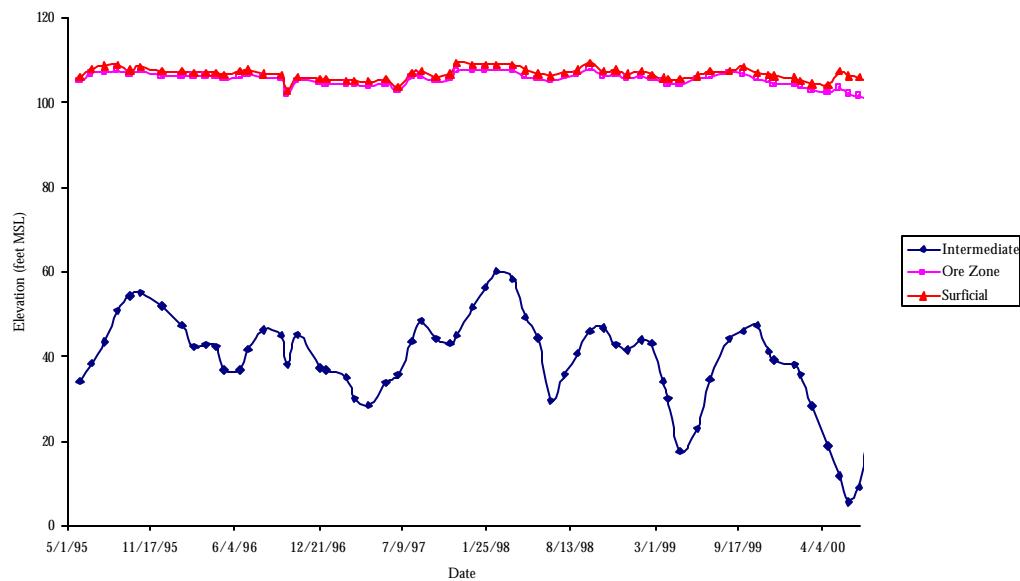
LEGEND

- Cast spoil
- Water Table
- Ground Surface

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Figure 4.7-1 Water Table Profiles

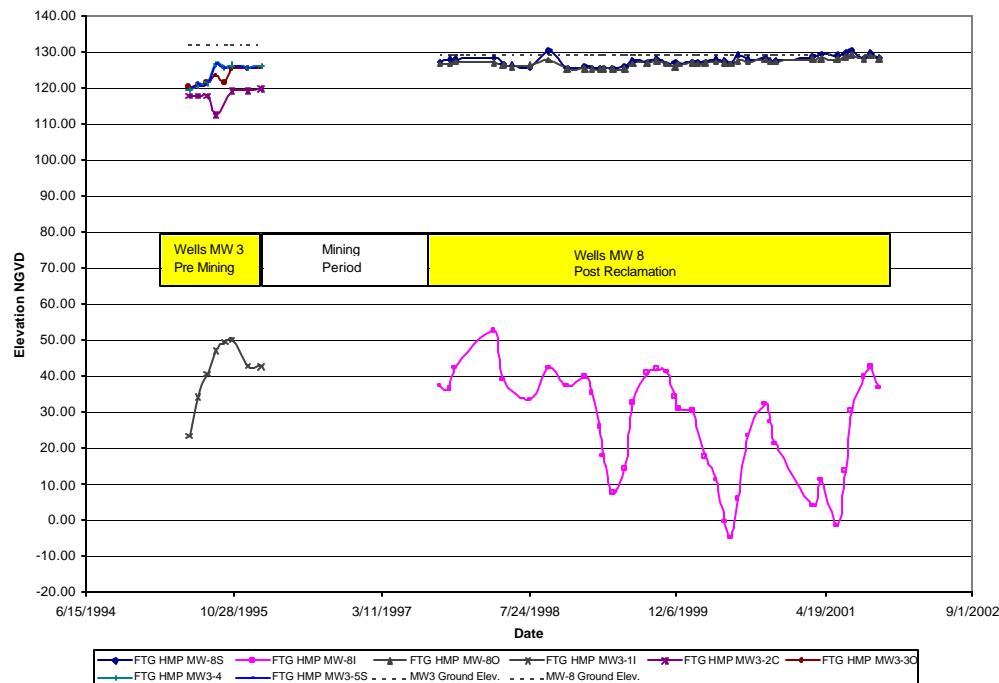
Well Cluster MW-5
Water Table and Potentiometric Surface



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Figure 4.7-2
Water Table Elevation and Potentiometric Surface
Well Cluster MW-5 and HIMPOS Wells 3 and 8.

Source:
IMC, 2002.



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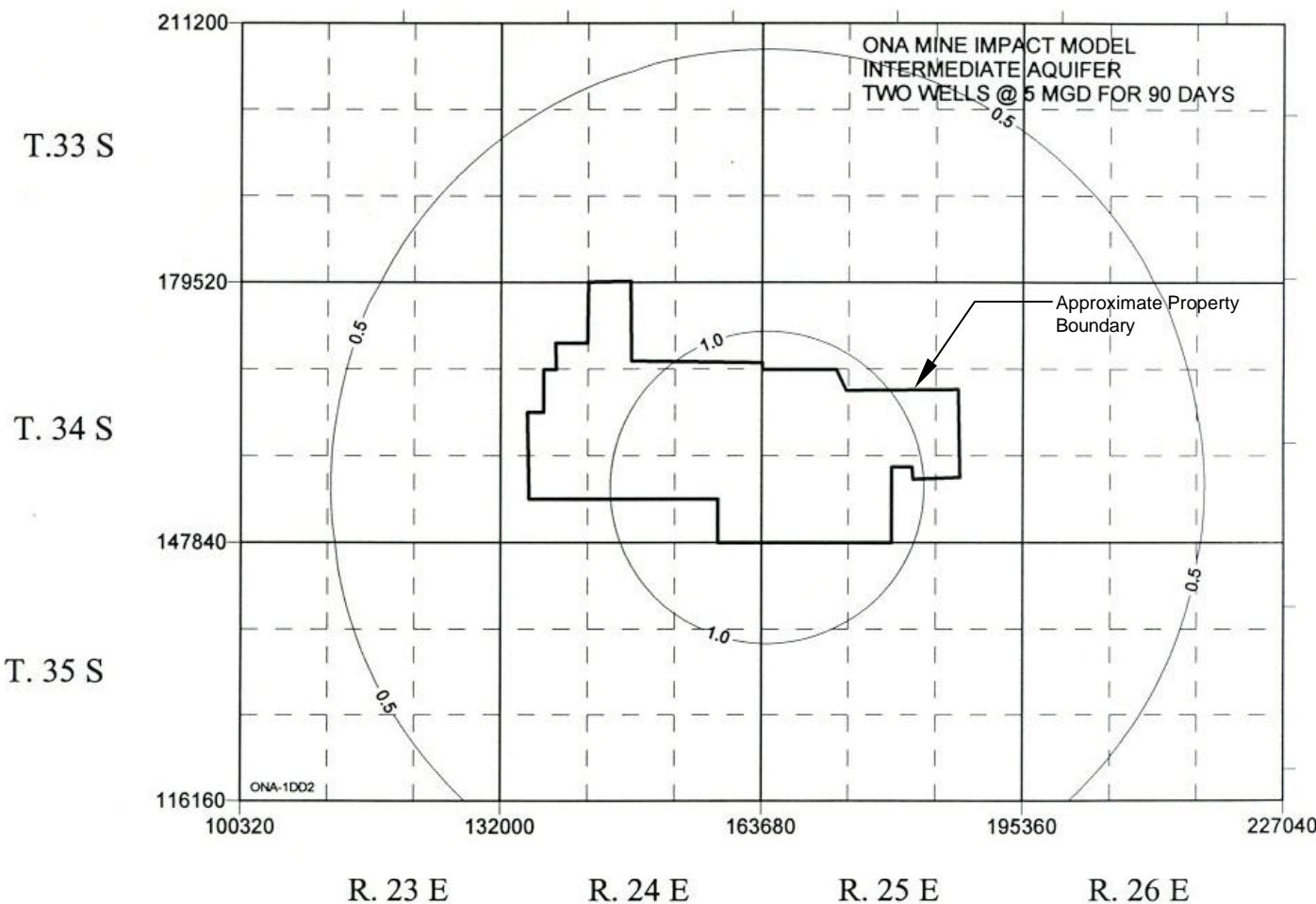
Ona Mine

Figure 4.7-3

Drawdown Contours in the Intermediate Aquifer
System - Ona Mine

Legend:
Drawdown in Feet

Source:
IMC, 2002.



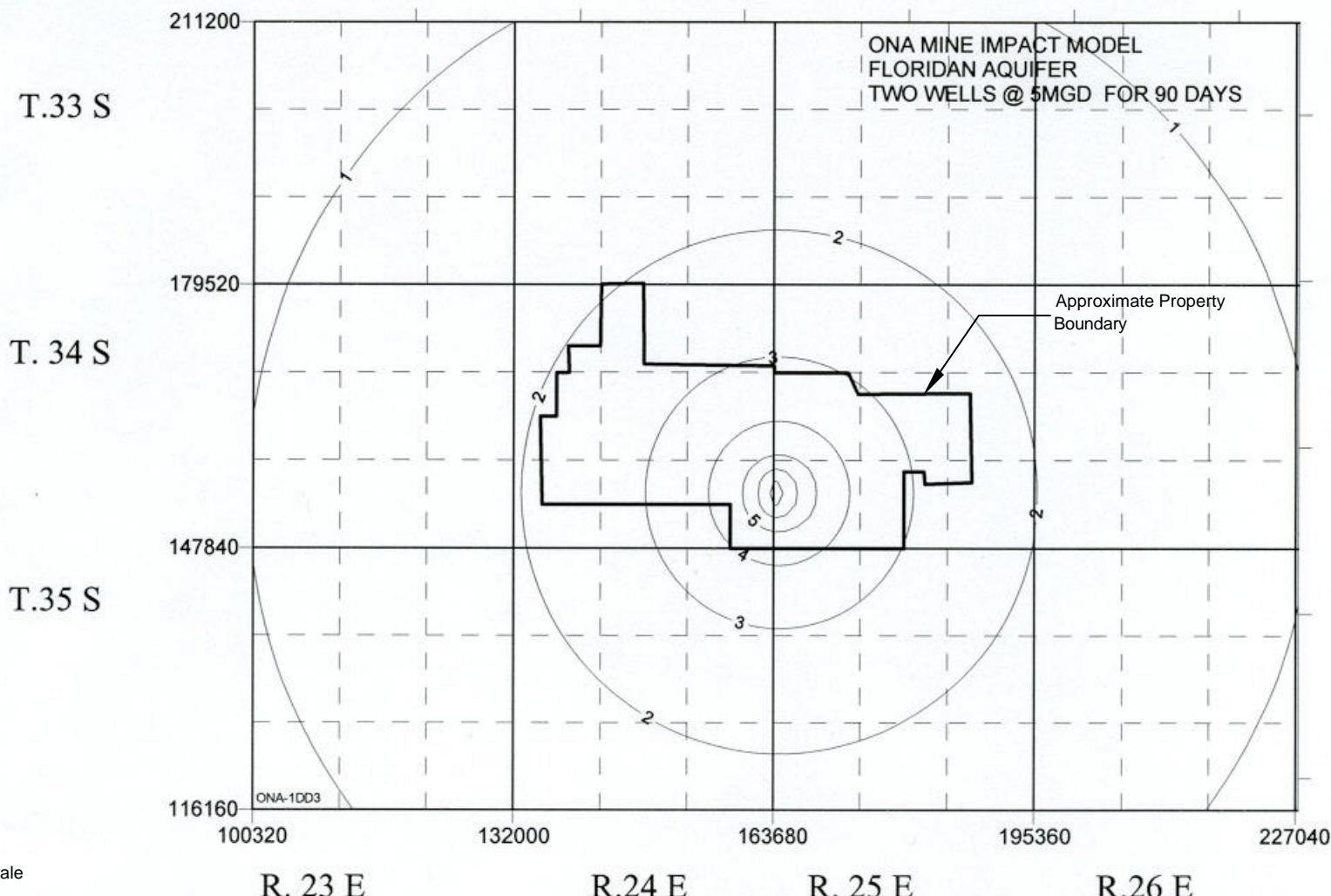
Note:
Not to Scale

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Figure 4.7-4
Drawdown Contours in the Floridan Aquifer System
Ona Mines

Legend:
Drawdown in Feet

Source:
IMC, 2002.



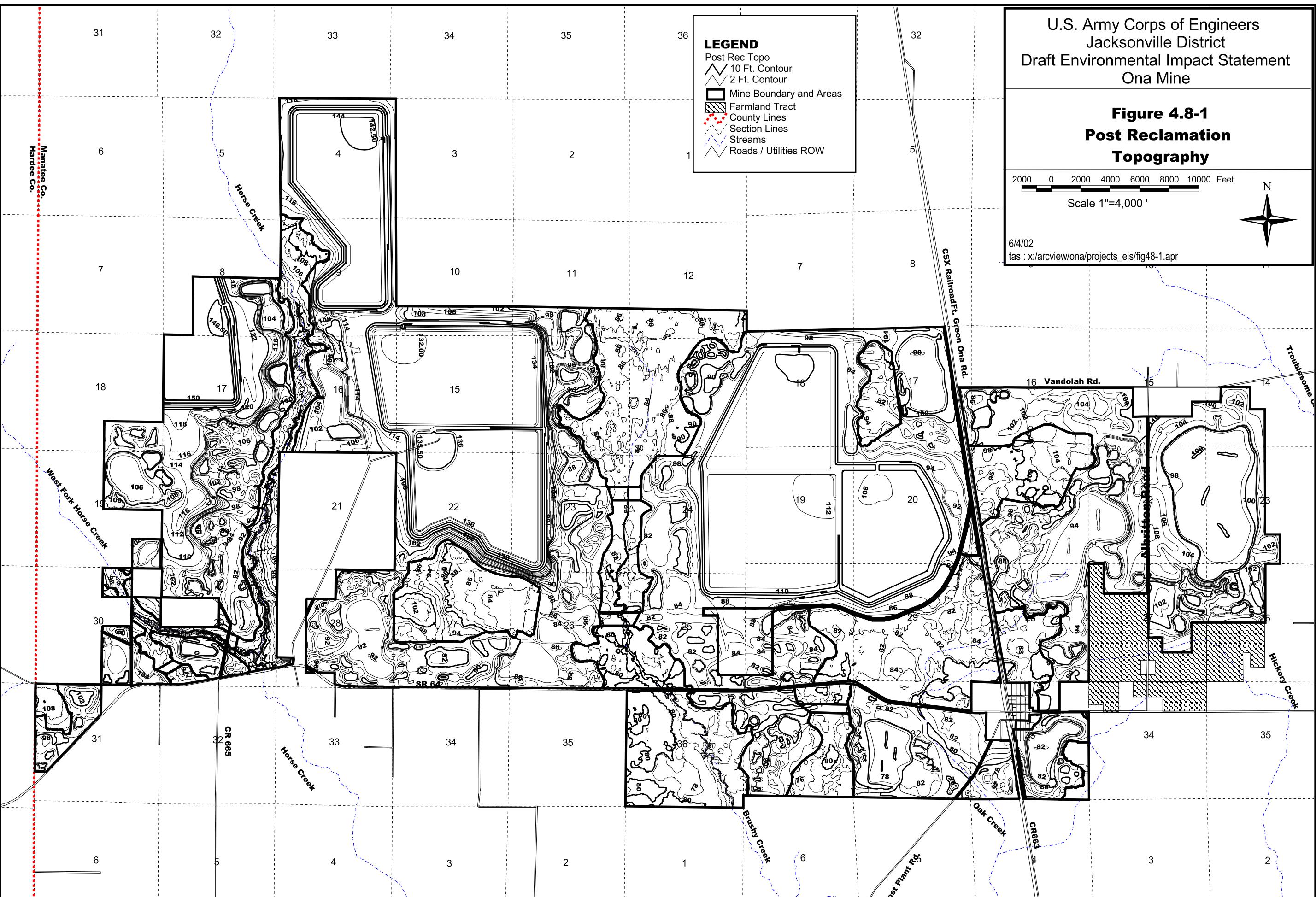
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Figure 4.8-1
Post Reclamation
Topography

2000 0 2000 4000 6000 8000 10000 Feet
Scale 1"=4,000'



6/4/02
tas : x:/arcview/ona/projects_eis/fig48-1.apr

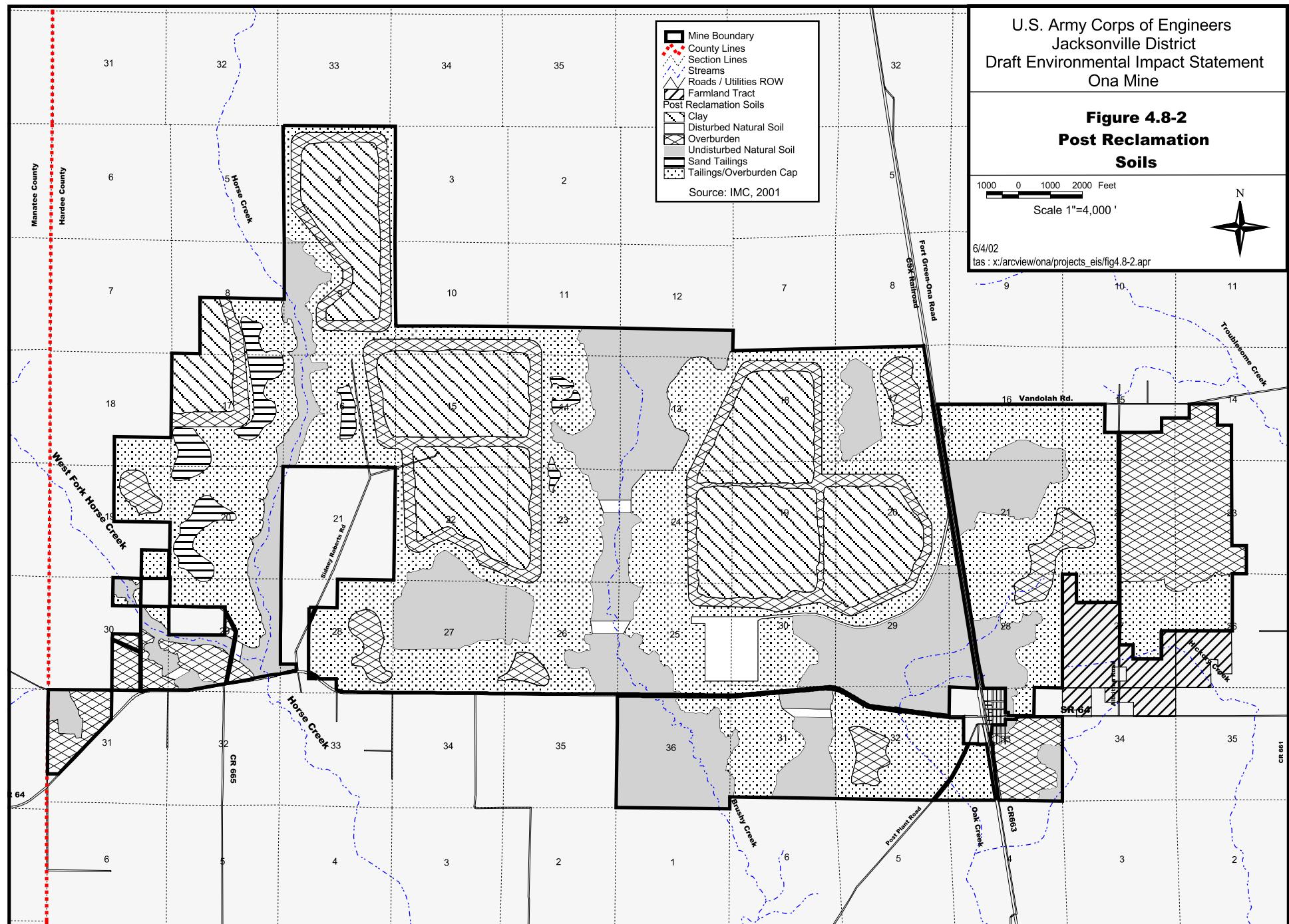


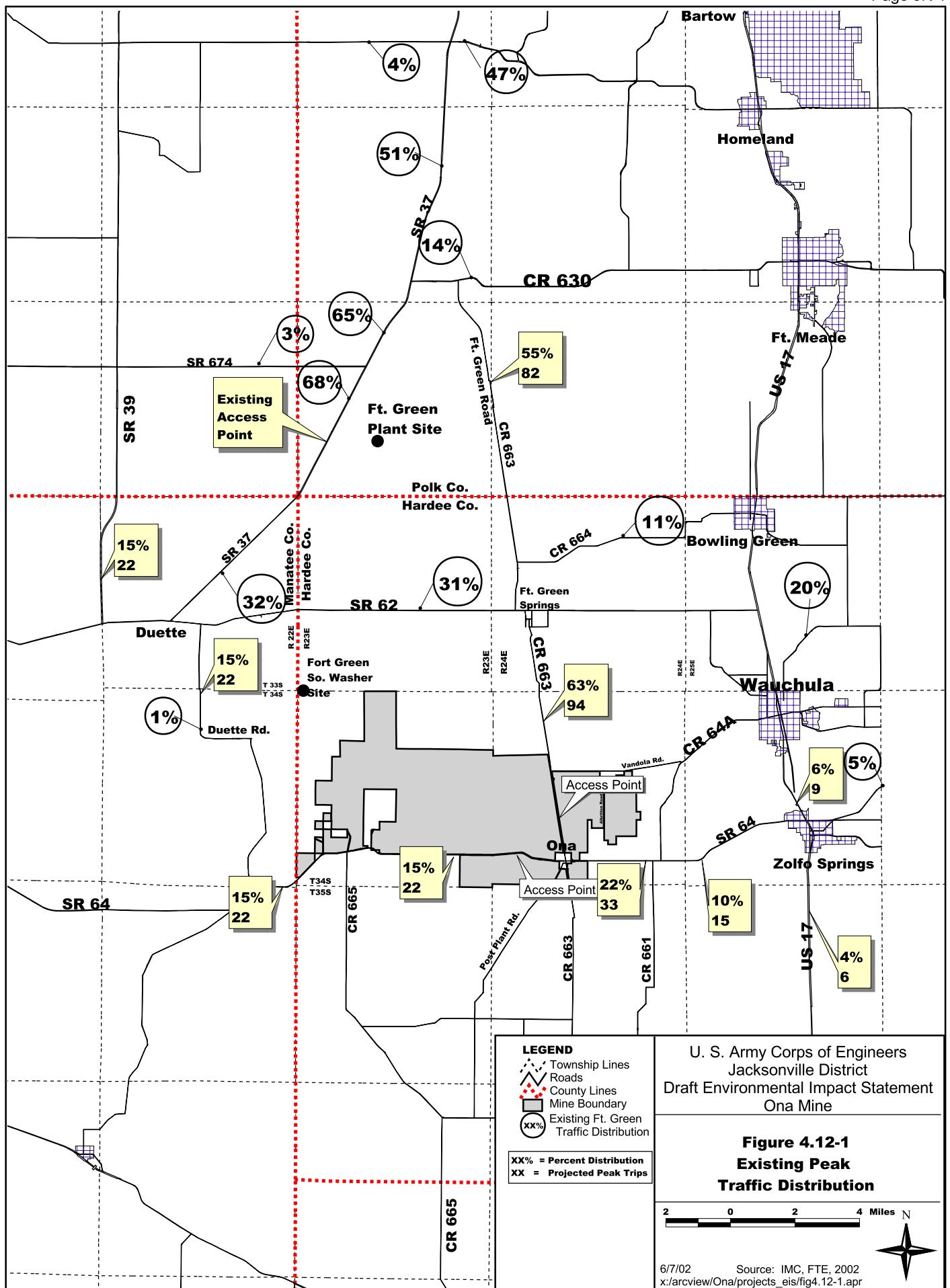
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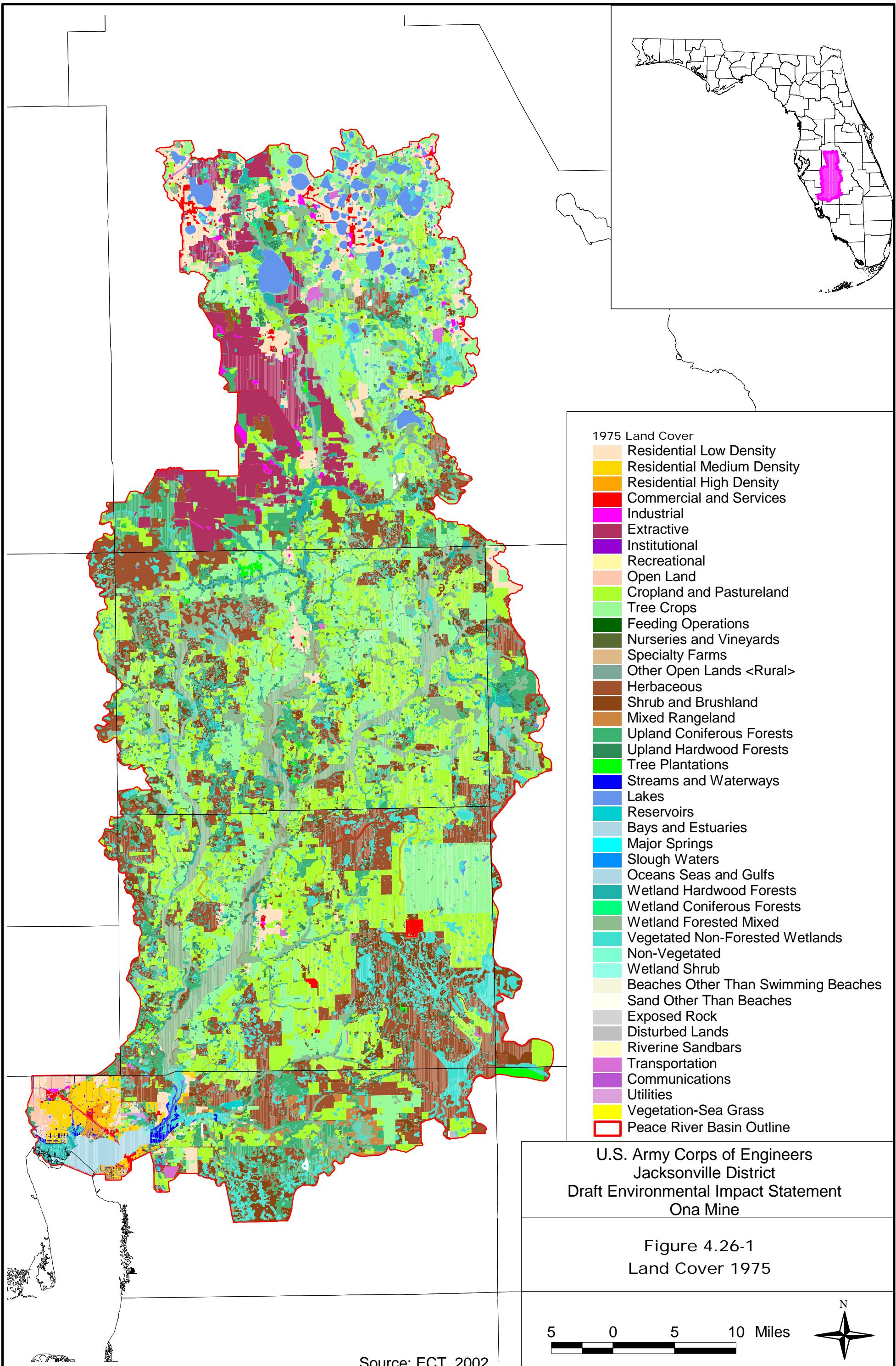
Figure 4.8-2
Post Reclamation
Soils

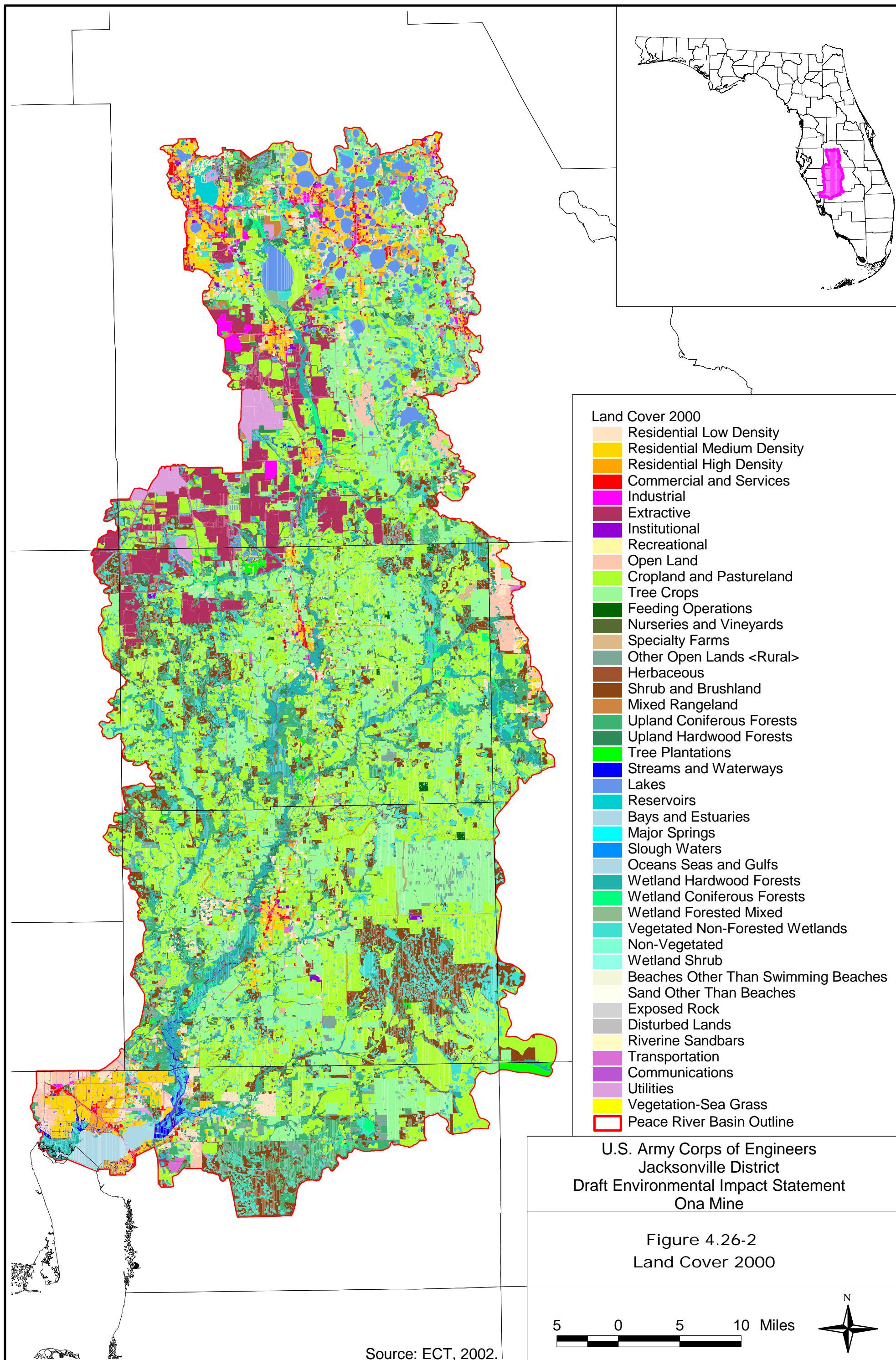
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Scale 1"=4,000'

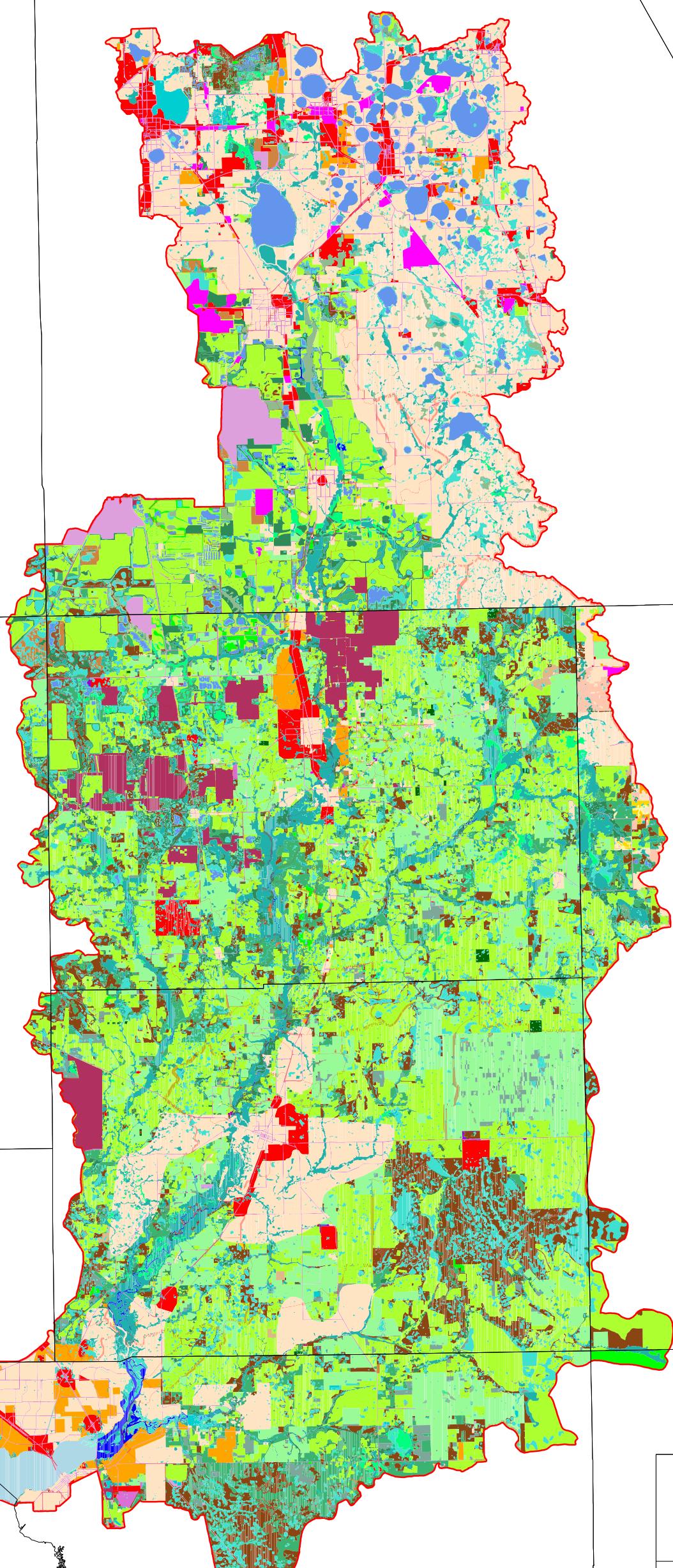
6/4/02
tas : x:/arcview/ona/projects_eis/fig4.8-2.apr











Land Cover 2025	
Residential Low Density	
Residential Medium Density	
Residential High Density	
Commercial and Services	
Industrial	
Extractive	
Institutional	
Recreational	
Open Land	
Cropland and Pastureland	
Tree Crops	
Feeding Operations	
Nurseries and Vineyards	
Specialty Farms	
Other Open Lands <Rural>	
Herbaceous	
Shrub and Brushland	
Mixed Rangeland	
Upland Coniferous Forests	
Upland Hardwood Forests	
Tree Plantations	
Streams and Waterways	
Lakes	
Reservoirs	
Bays and Estuaries	
Major Springs	
Slough Waters	
Oceans Seas and Gulfs	
Wetland Hardwood Forests	
Wetland Coniferous Forests	
Wetland Forested Mixed	
Vegetated Non-Forested Wetlands	
Non-Vegetated	
Wetland Shrub	
Beaches Other Than Swimming Beaches	
Sand Other Than Beaches	
Exposed Rock	
Disturbed Lands	
Riverine Sandbars	
Transportation	
Communications	
Utilities	
Vegetation-Sea Grass	
Peace River Basin Outline	

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Figure 4.26-3
Land Cover 2025

Source: ECT, 2002.

5 0 5 10 Miles

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Figure 4.26-4
 Area Captured by Phosphate Mines in
 Horse Creek Basin

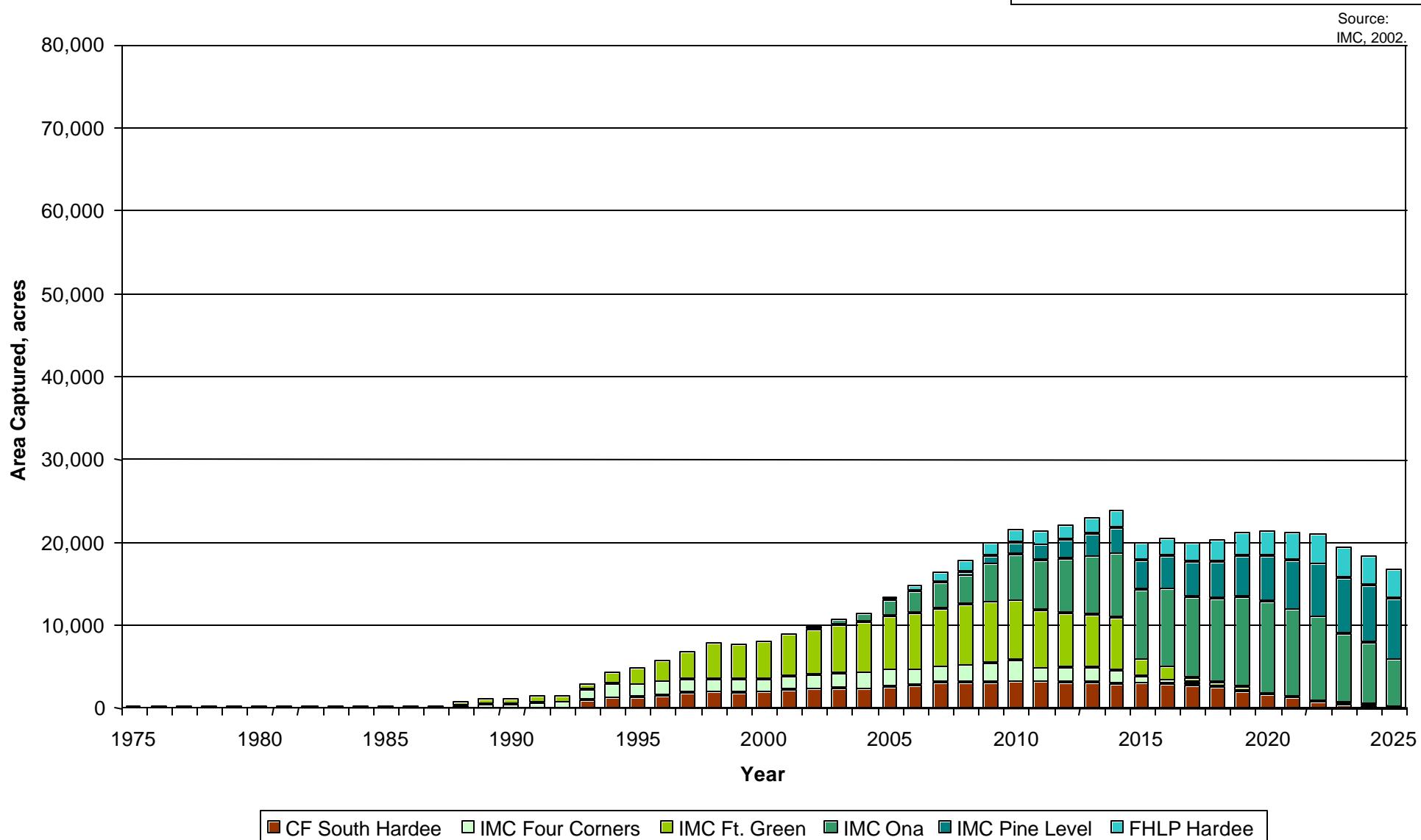
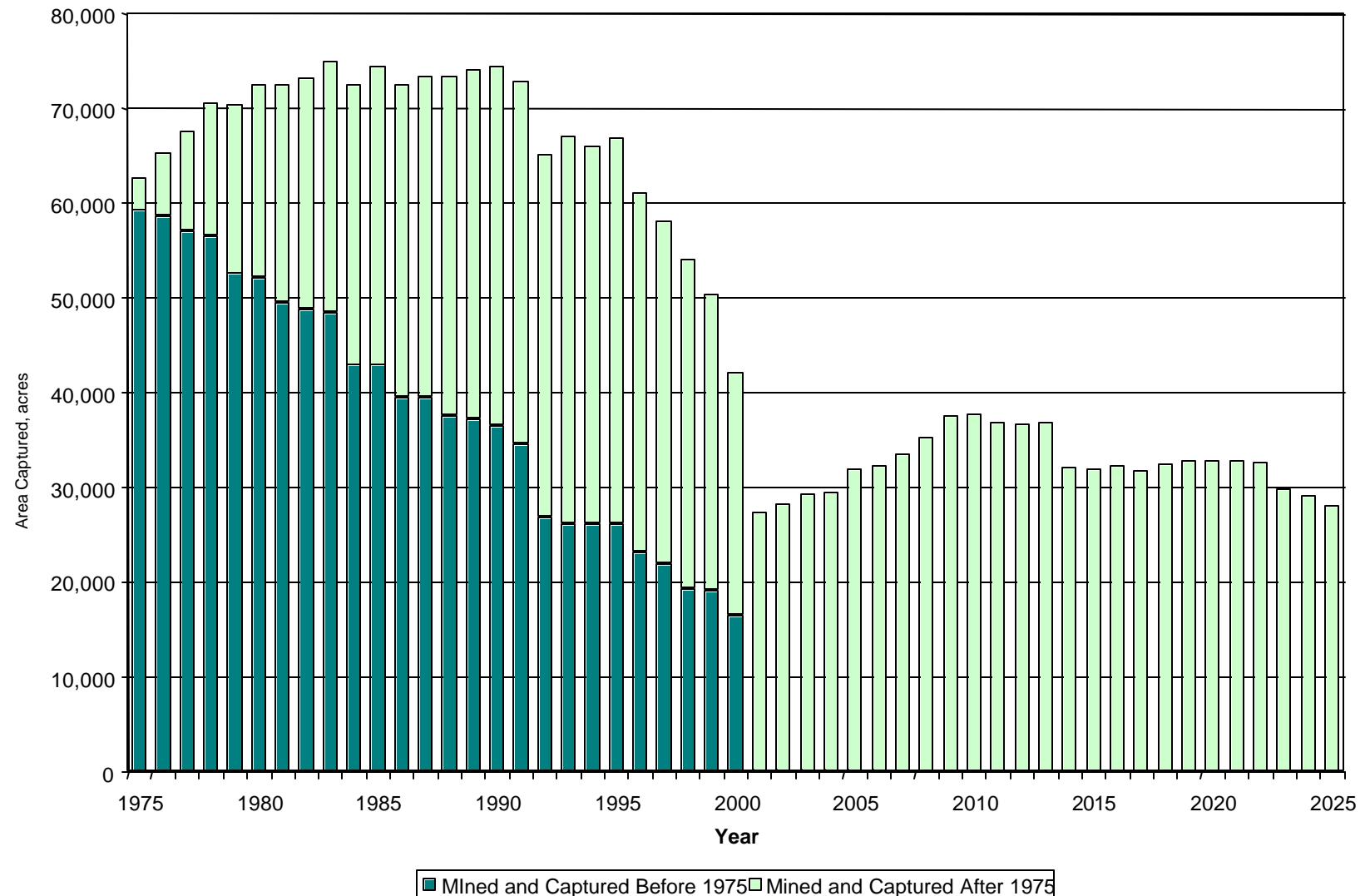


Figure 4.26-5
Area Captured by Phosphate Mines in
Peace River Basin

Source:
IMC, 2002.



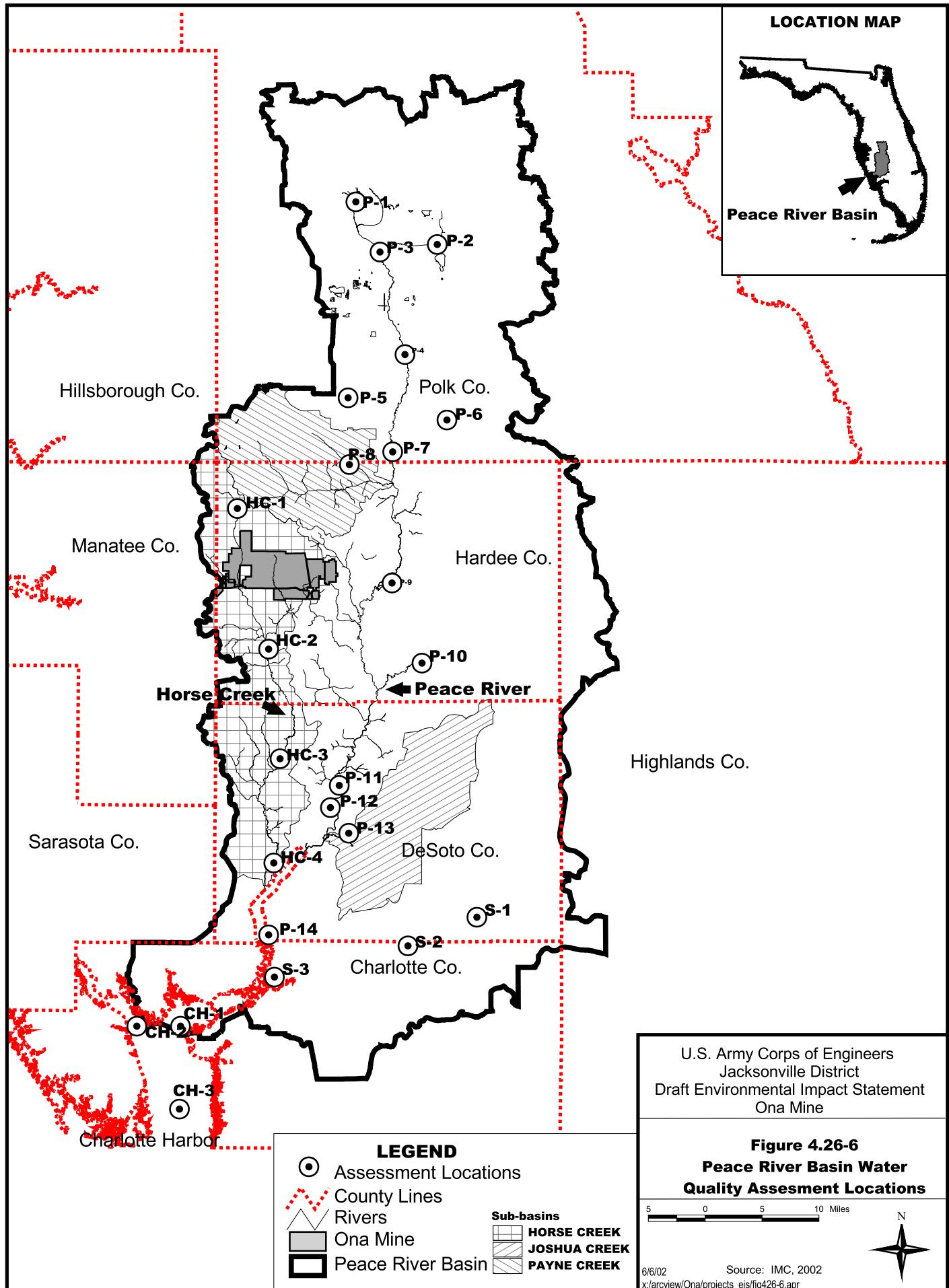
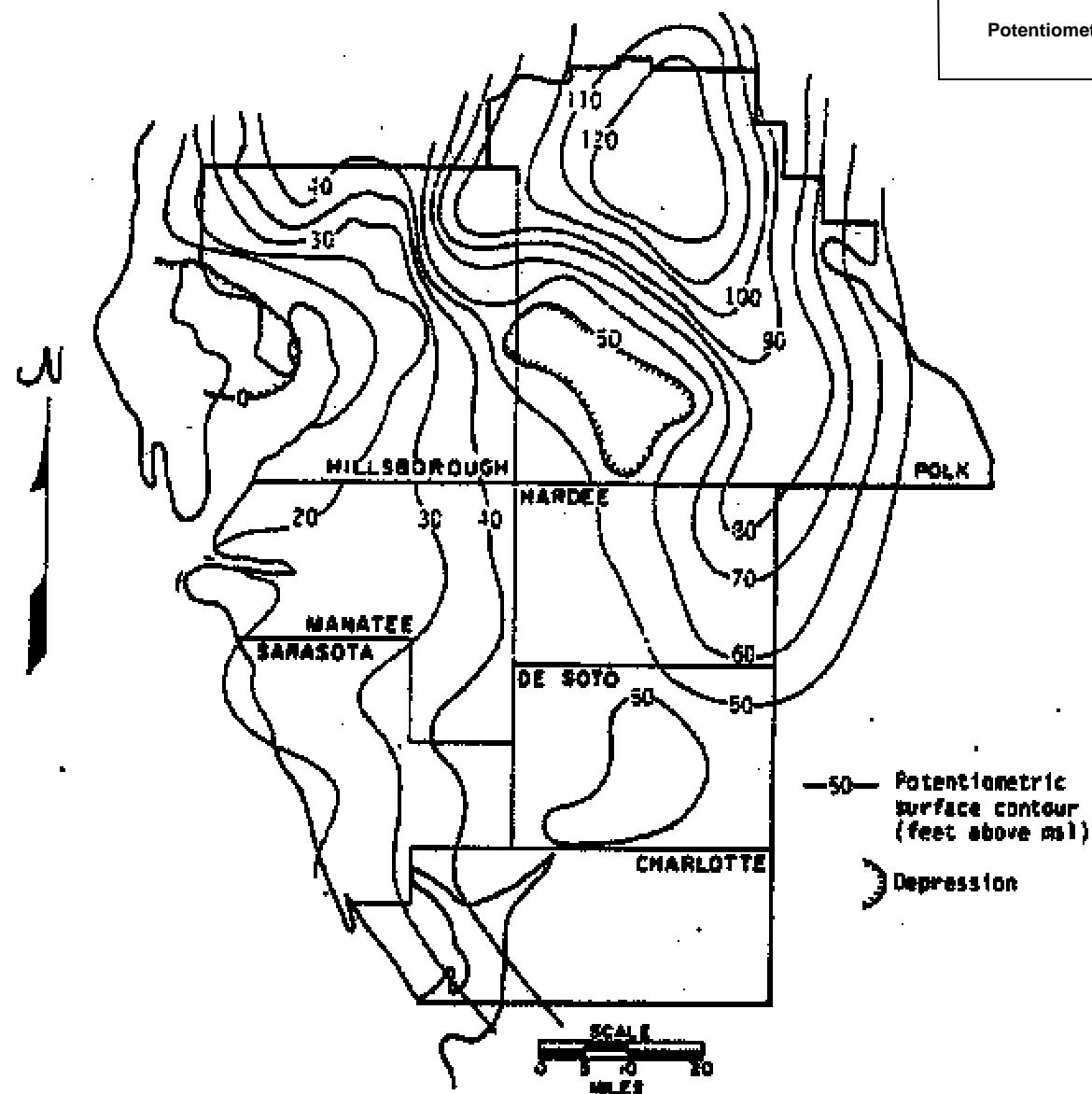


Figure 4.26-7

Potentiometric Surface of Upper Floridan Aquifer
September 1975

Source:
USEPA, 1978.

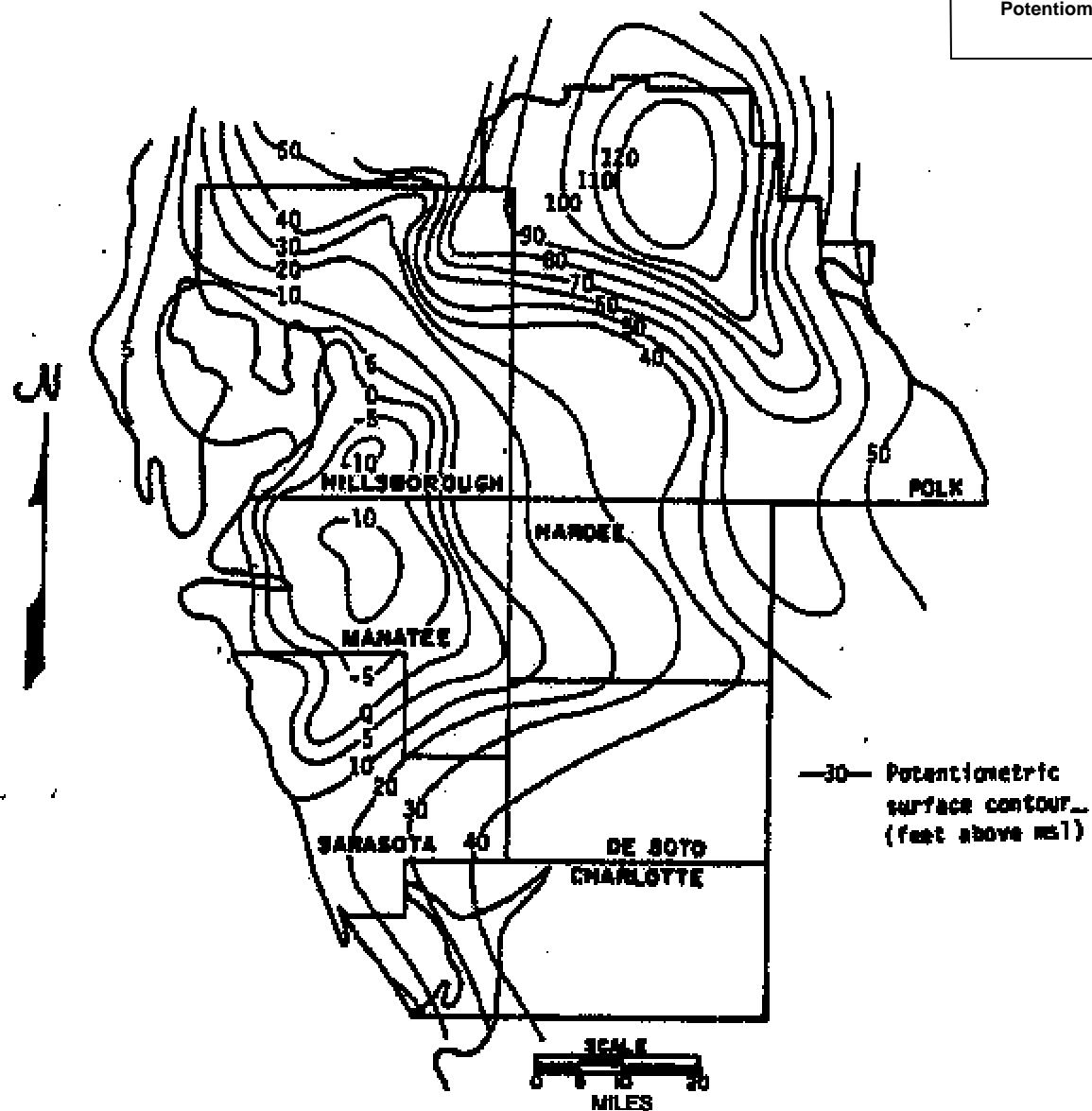


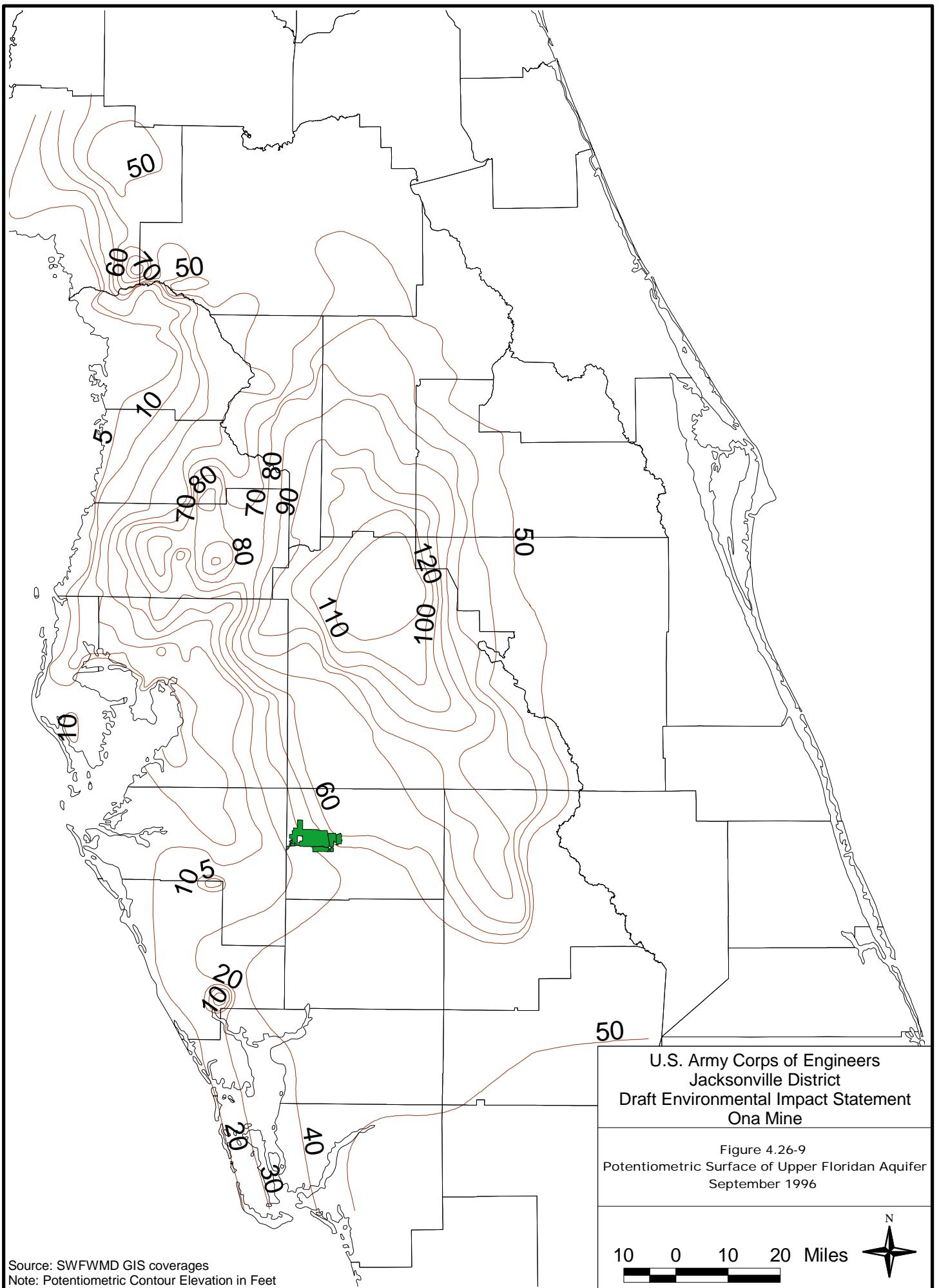
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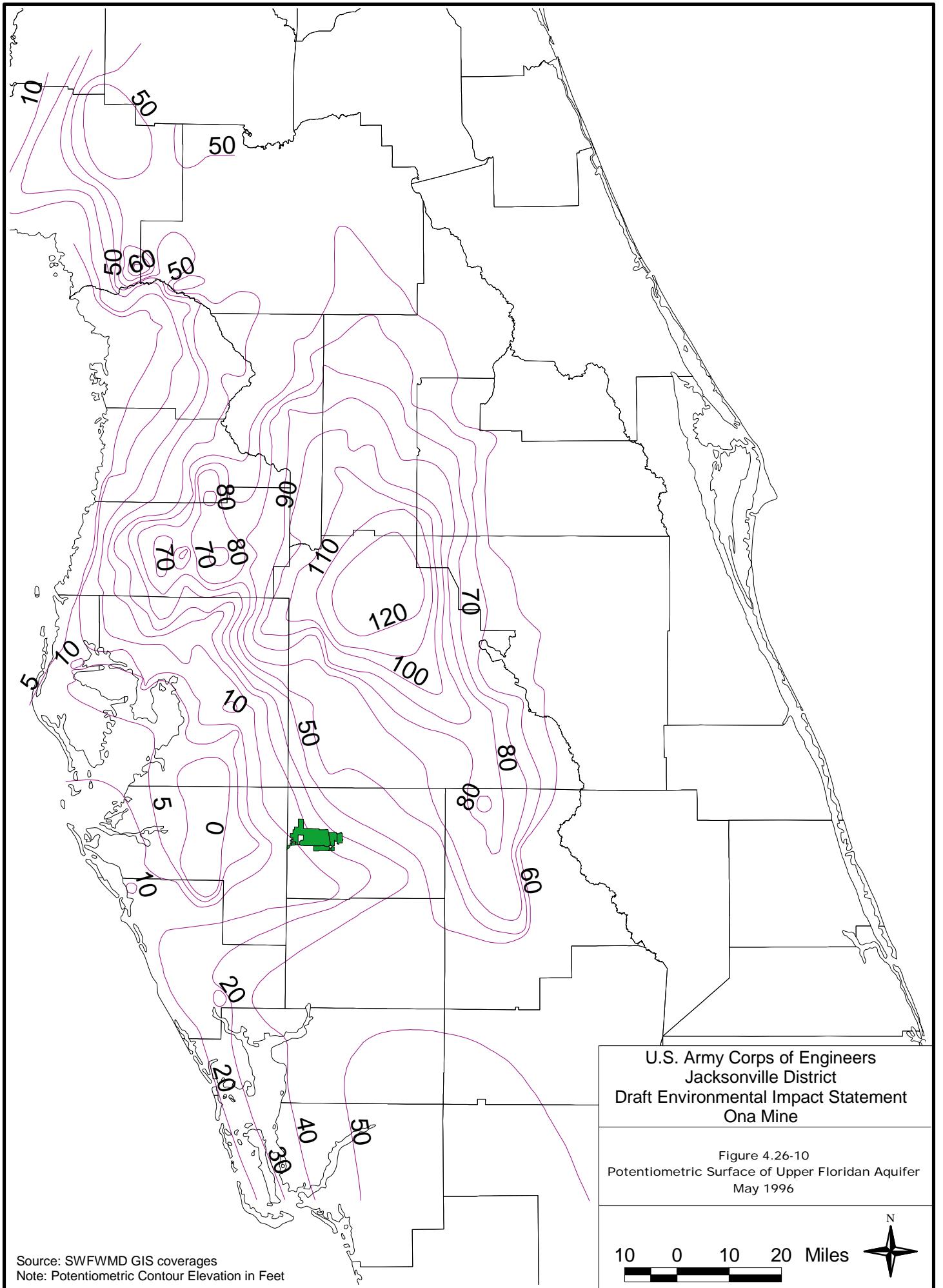
Figure 4.26-8

Potentiometric Surface of Upper Floridan Aquifer
May 1976

Source:
USEPA, 1978.







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Figure 4.26-11
Chloride in Upper Floridan Aquifer
Presented in Areawide EIS

Source:
USEPA, 1978.

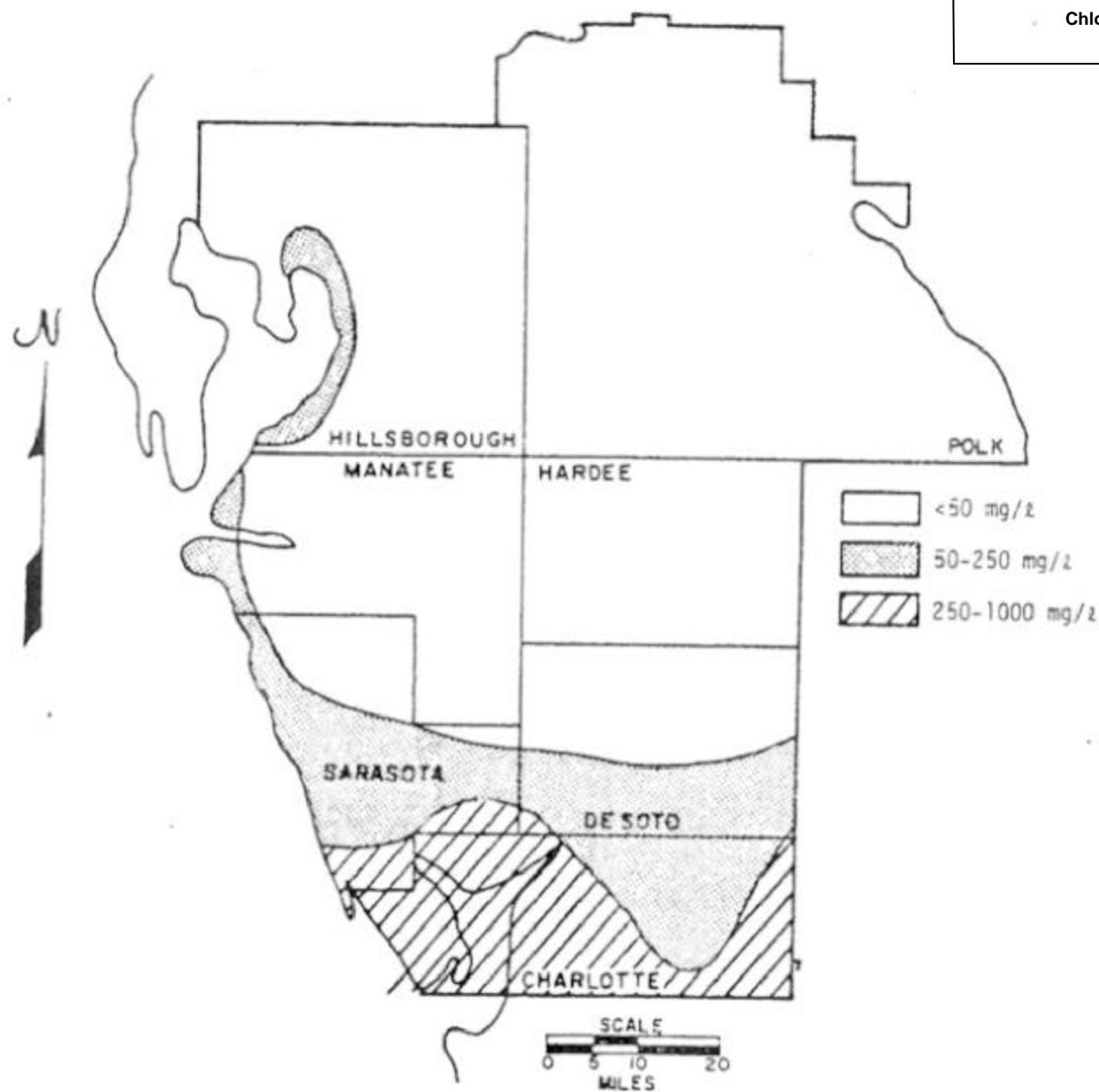


Figure 4.26-12
Sulfate in Upper Floridan Aquifer
Presented in Areawide EIS

Source:
USEPA, 1978.

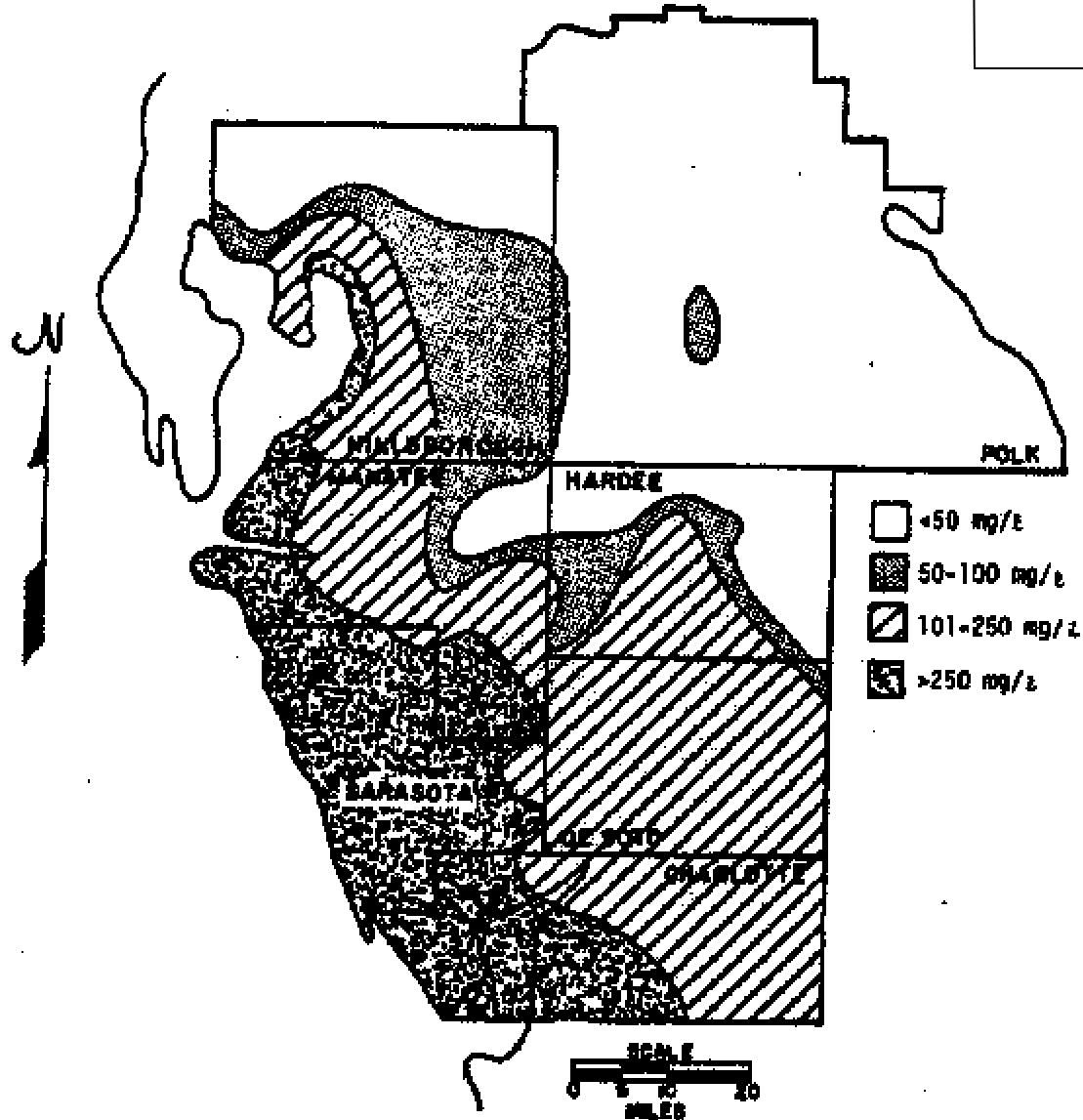
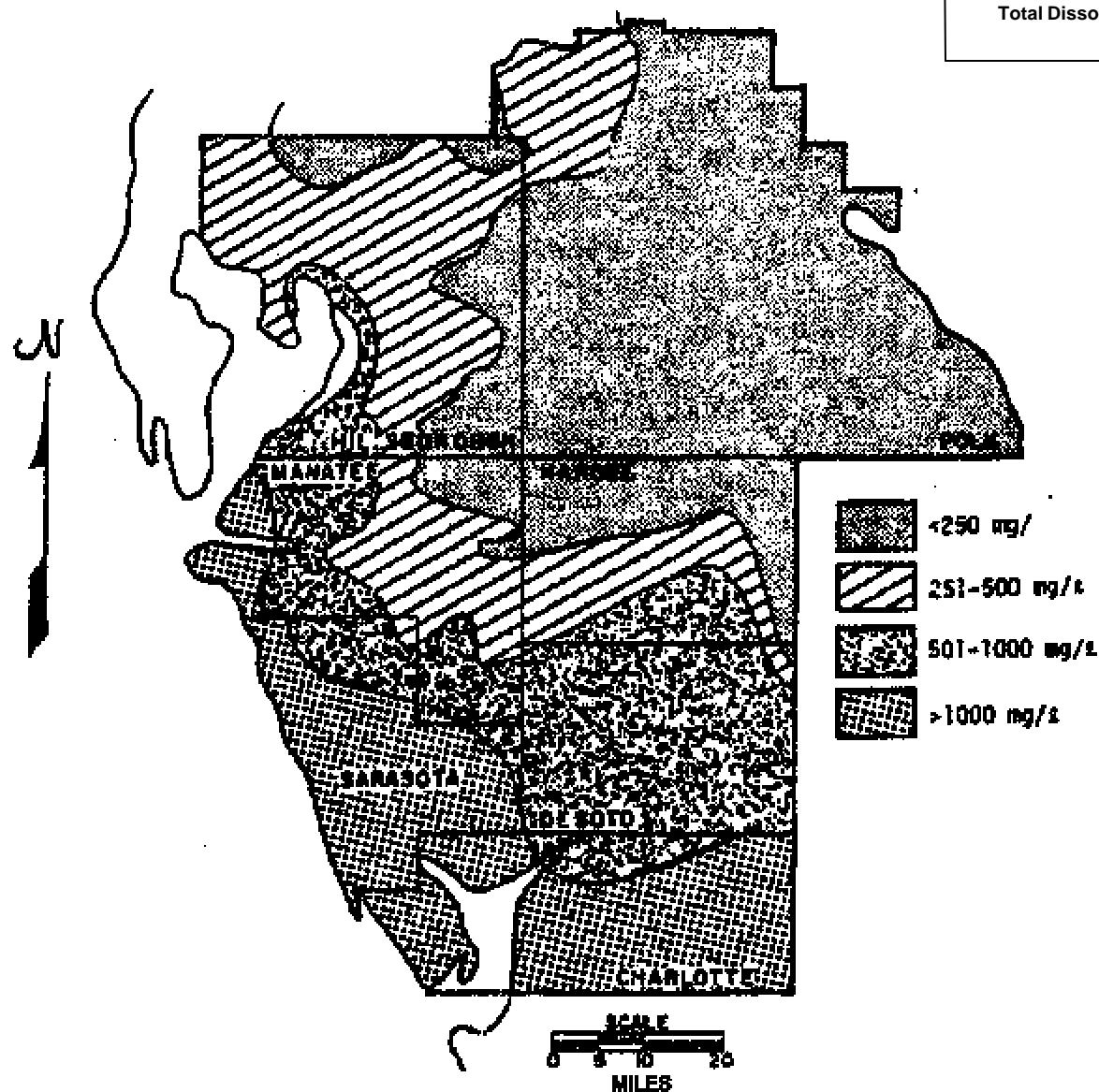


Figure 4.26-13

Total Dissolved Solids in Upper Floridan Aquifer
Presented in Areawide EIS

Source:
USEPA, 1978.



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Figure 4.26-14
Recent Distribution of Total Chloride in the
Upper Floridan Aquifer

Source:
FDEP, 1992.

LEGEND

C.I. = 10, 50, 100, 250 mg/L
— ESTIMATED CONTOURS
C.I. = Contour Interval

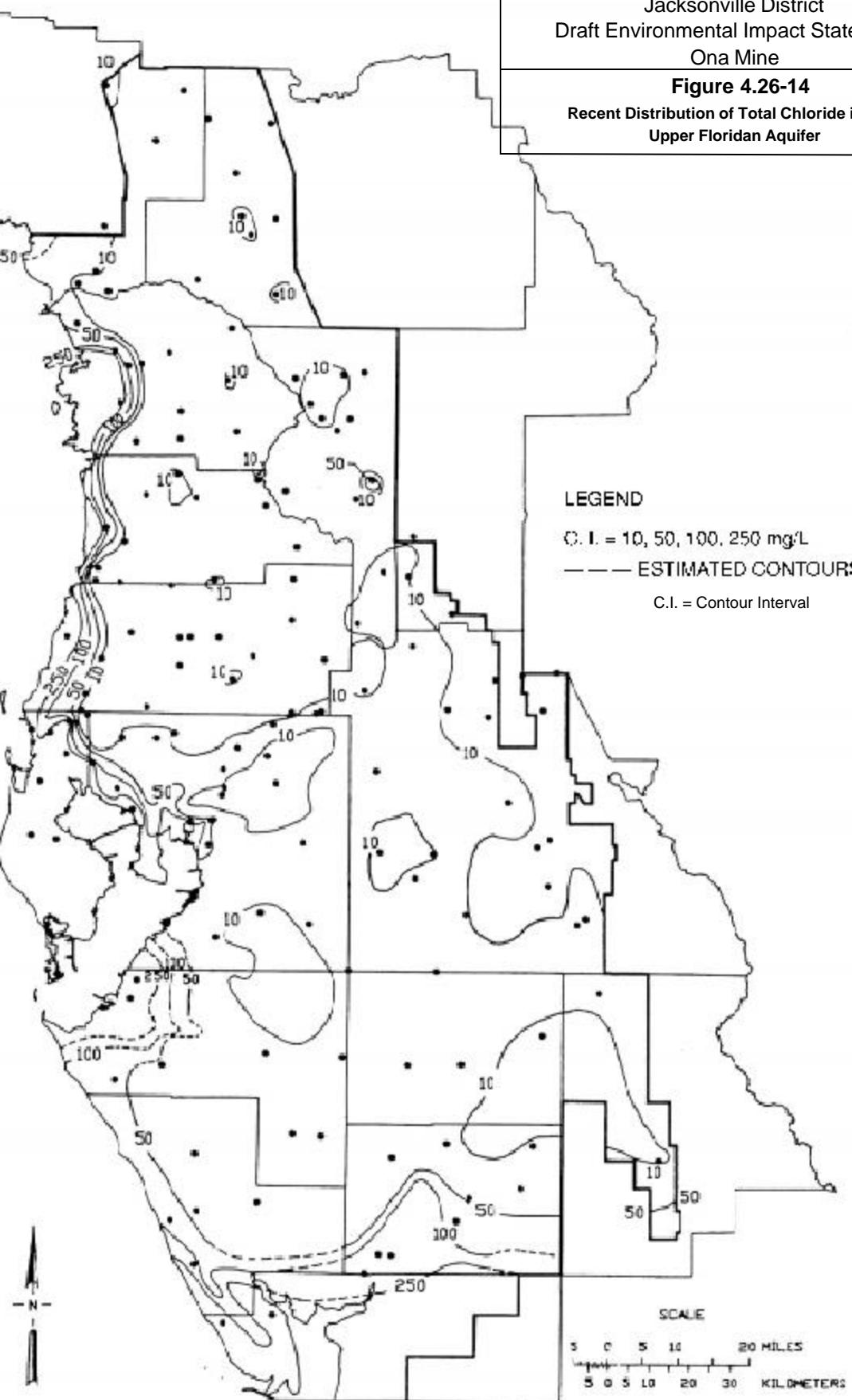
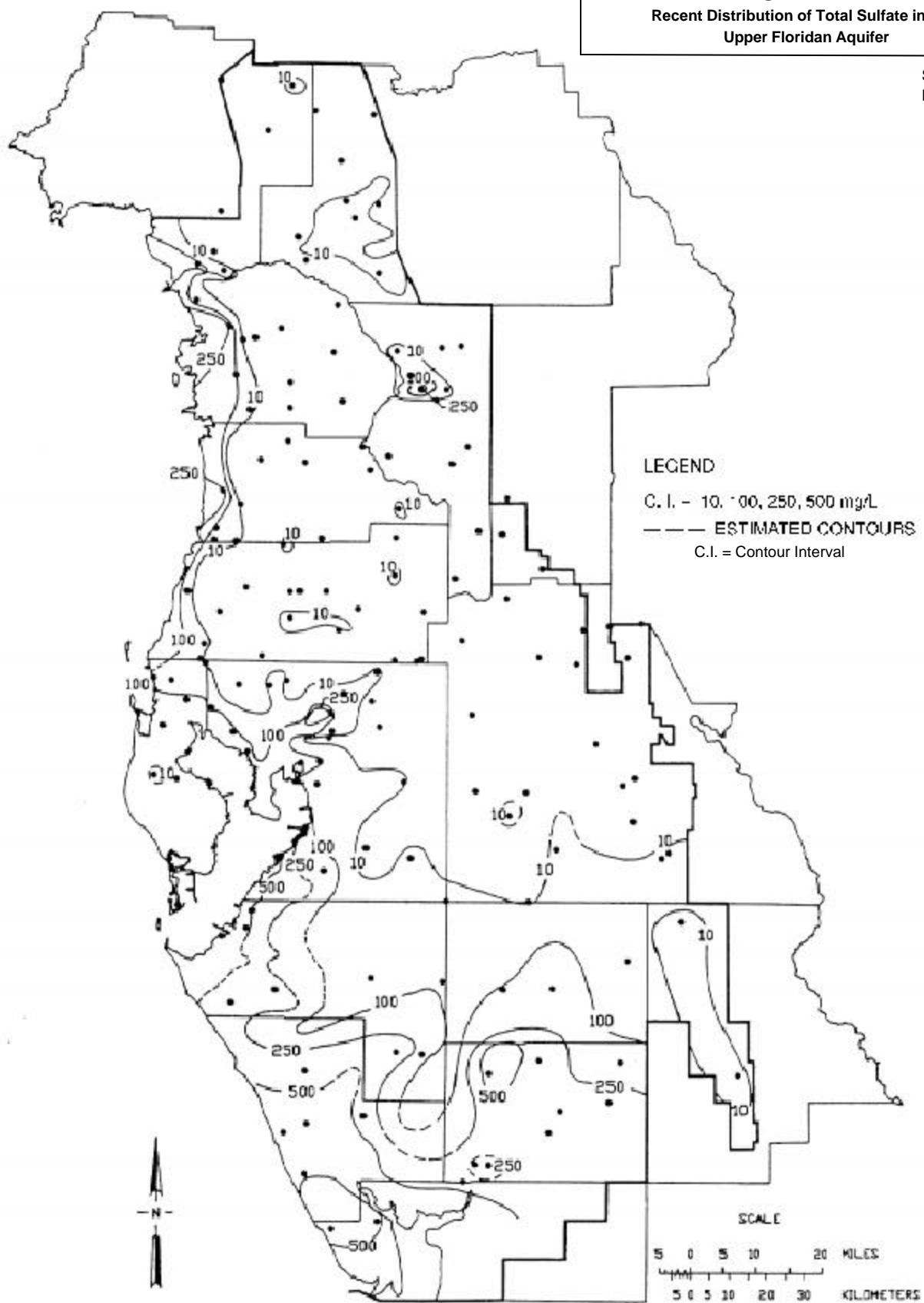


Figure 4.26-15
Recent Distribution of Total Sulfate in the
Upper Floridan Aquifer

Source:
FDEP, 1992.



U.S. Army Corps of Engineers
Jacksonville District
Draft Environmental Impact Statement
Ona Mine

Figure 4.26-16

Recent Distribution of Total Dissolved Solids in the
Upper Floridan Aquifer

Source:
FDEP, 1992.

