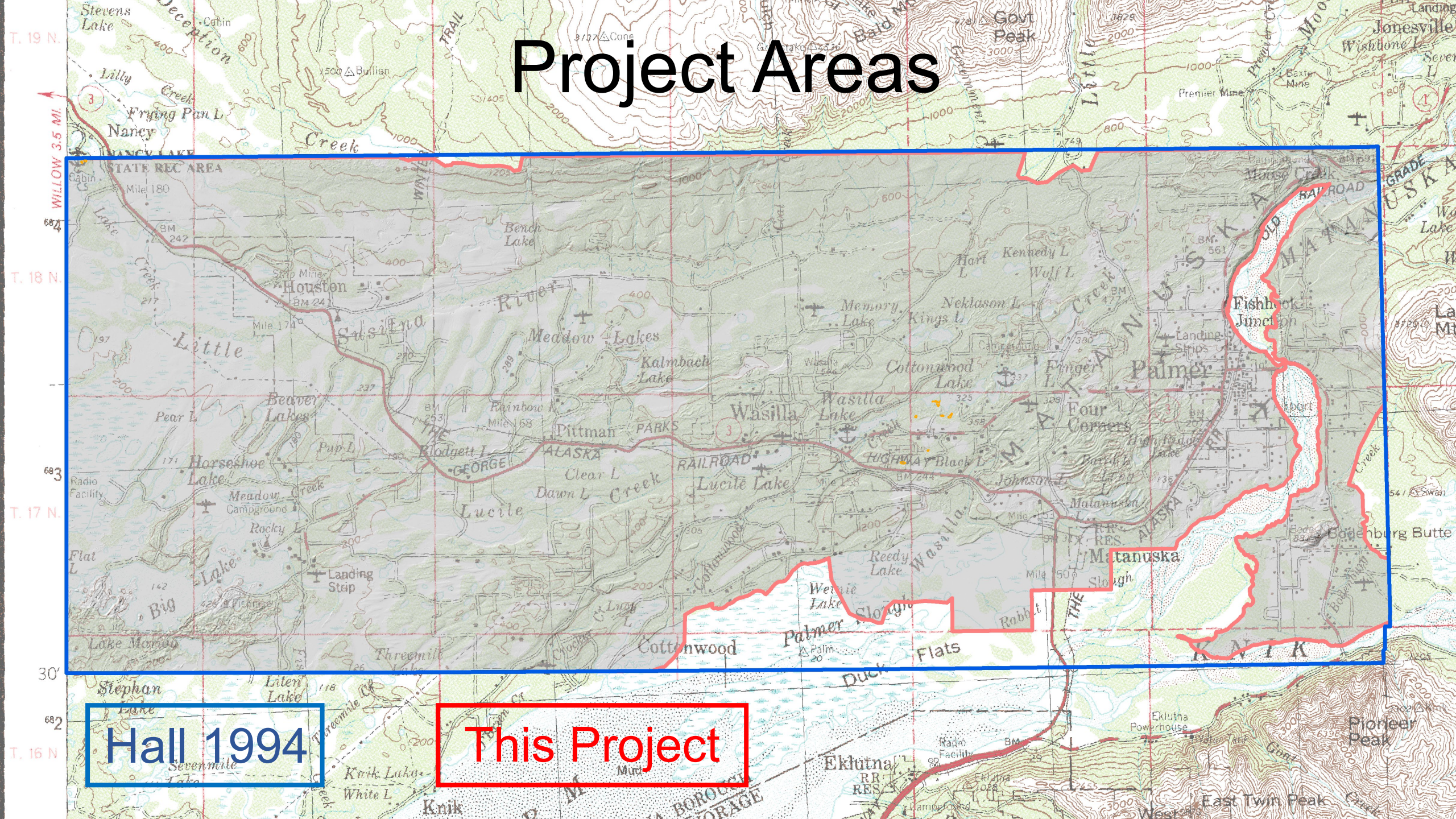
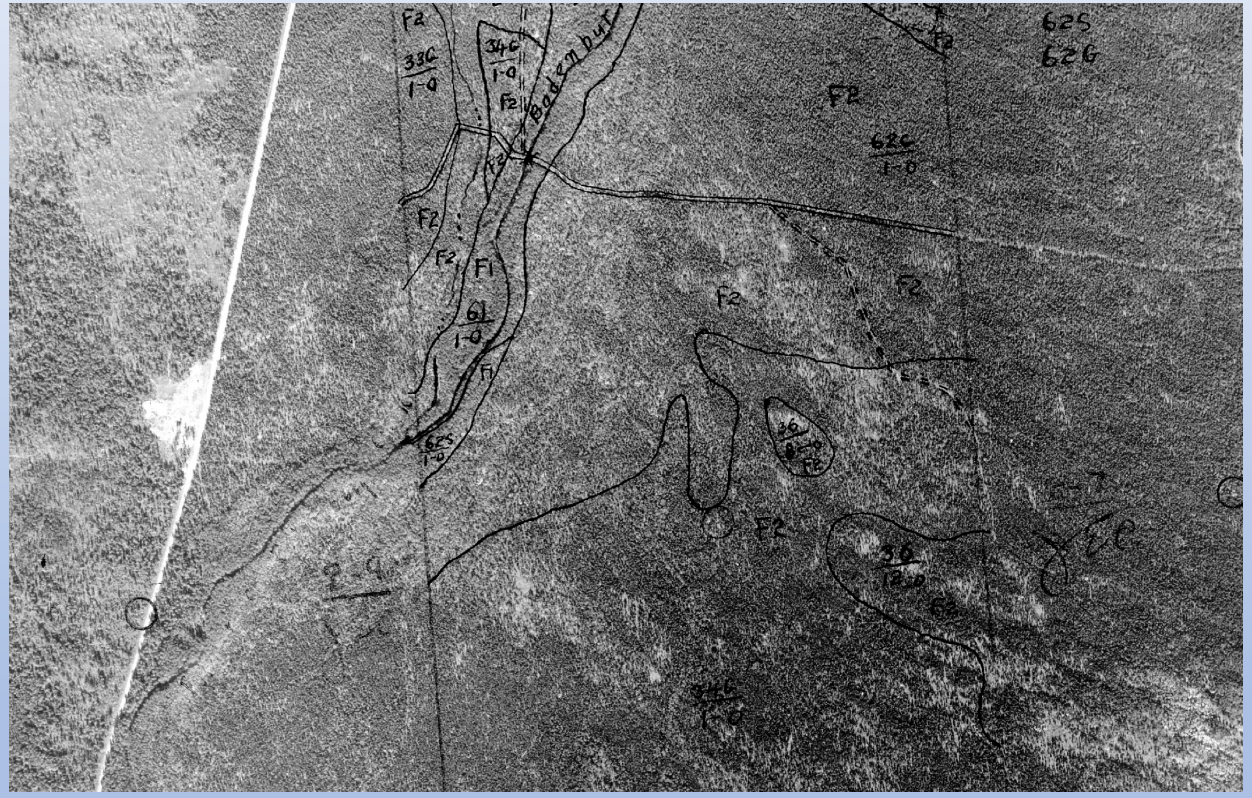
Wetland Loss Assessment by Wetland Type and Watershed in an Expanded Core Area of the Matanuska-Susitna Borough

Mike Gracz
Kenai Watershed Forum
mike@kenaiwatershed.org

Project Areas



1939


F2
33C
1-0
34C
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F2
Badger Dur
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61
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F1
62S
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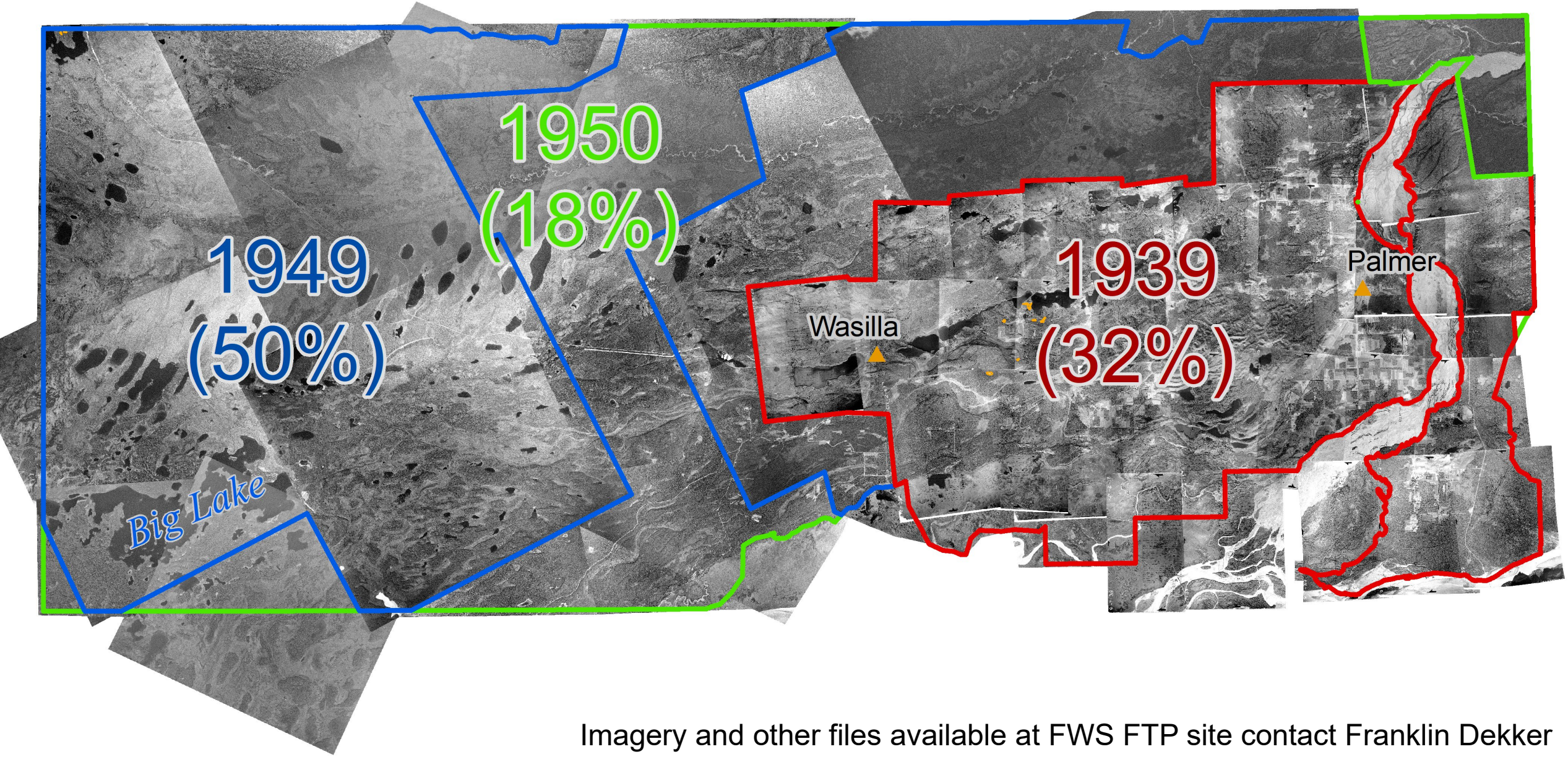
F2
62S
62G
F2
62C
1-0
F2
F2
36
1-0
F2
F2
36
1-0
62
34b
1-0

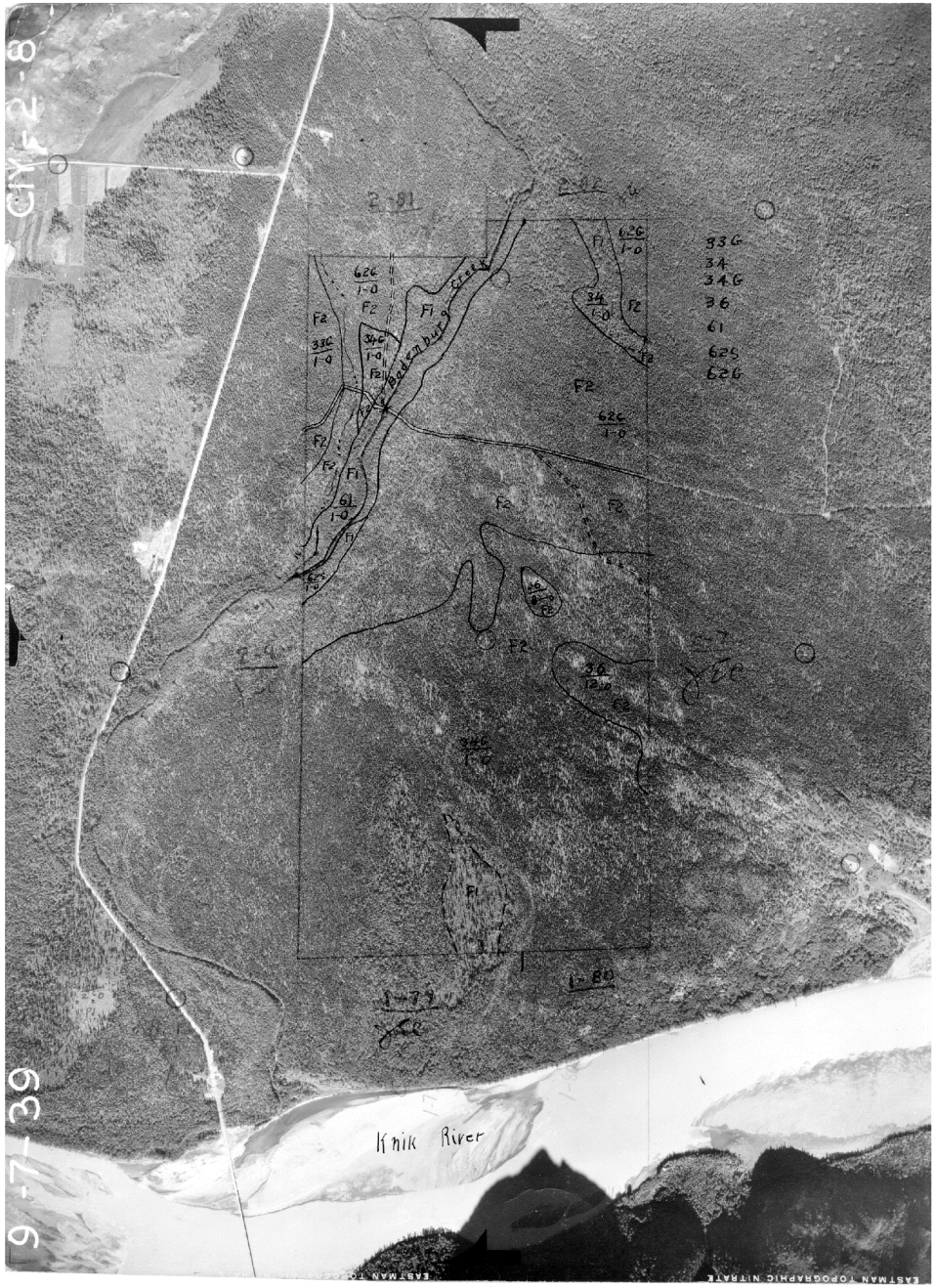
2017

Historical Imagery Coverage of Project Area



Imagery and other files available at FWS FTP site contact Franklin Dekker

1939



2017

2017WetlandLoss.mxd - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:20,181 | Export Map Styles... | Editor

3D Analyst | 1939_2_081.tif | Georeferencing | 2_08.tif | Snapping | 1939_2_081.tif

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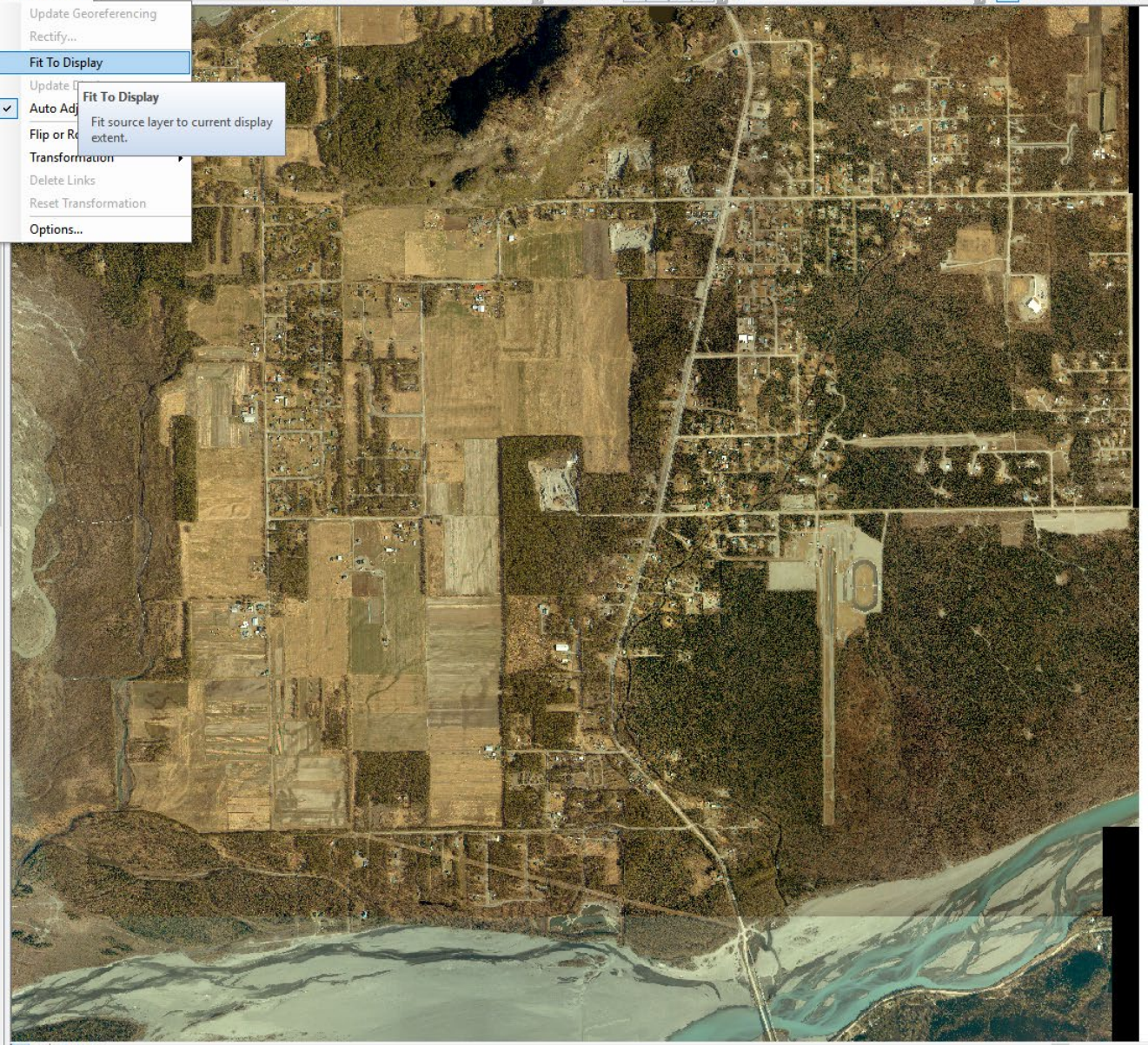
- 1939_3_73.tif
- 1939_3_75.tif
- 1939_4_32.tif
- 1939_5_52.tif

Georeferencing menu:

- Update Georeferencing
- Rectify...
- Fit To Display
- Update Links
- Auto Adjust
- Flip or Rotate
- Transformation
- Delete Links
- Reset Transformation
- Options...

Fit To Display

Fit source layer to current display extent.



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2017WetlandLoss.mxd - ArcMap

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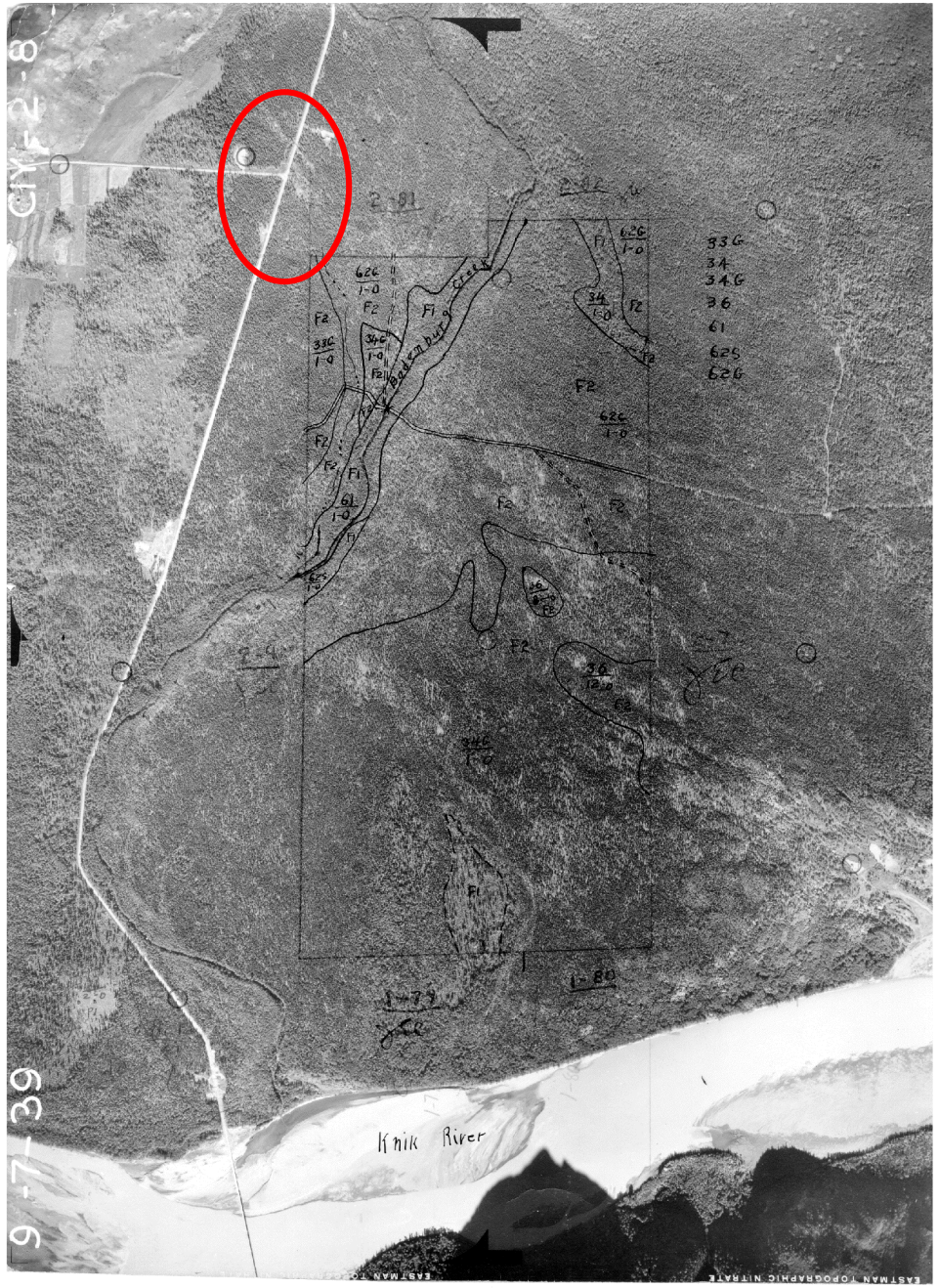
1939



2017WetlandLoss.mxd - ArcMap

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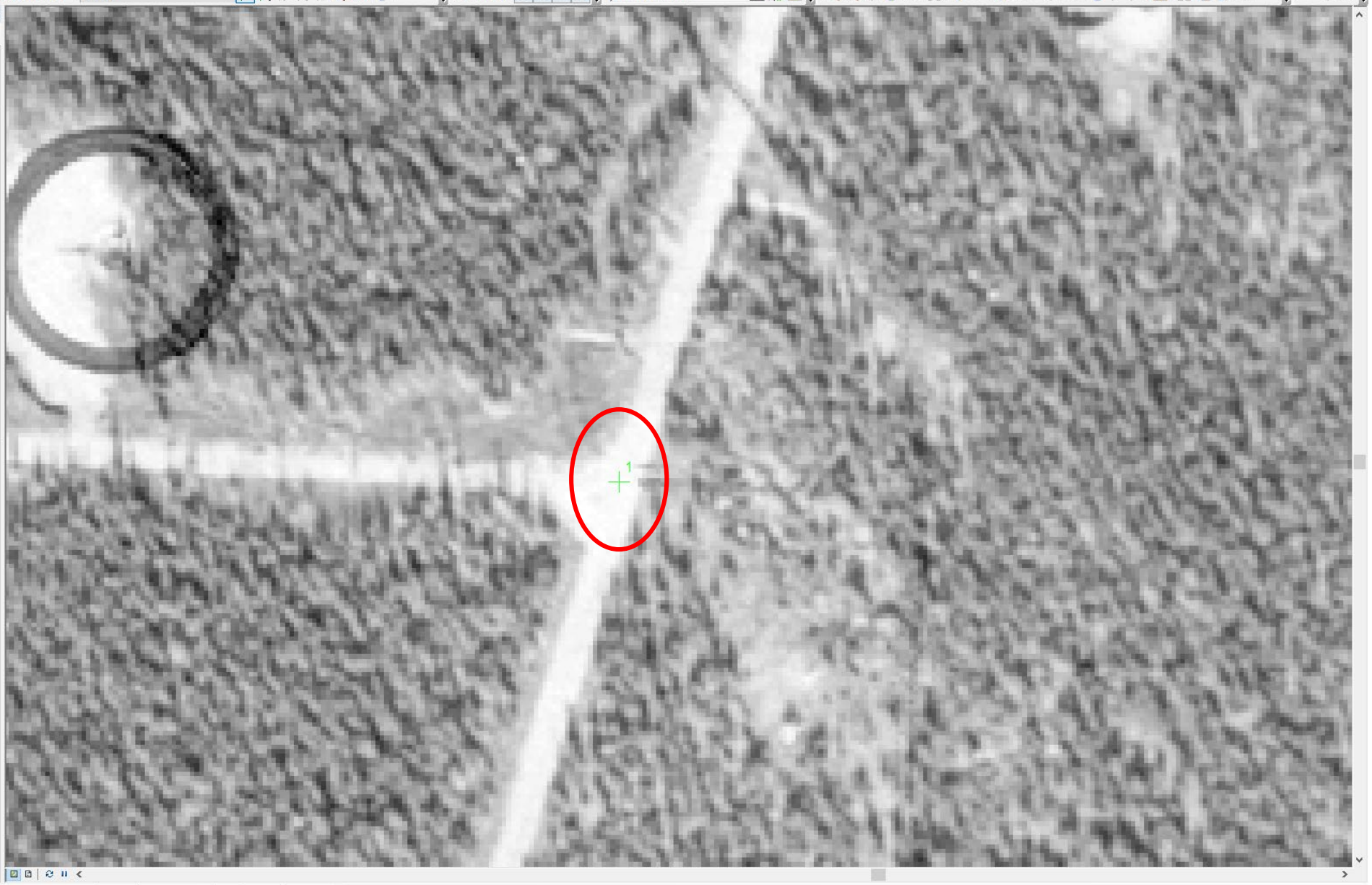

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-149.033 61.542 Decimal Degrees

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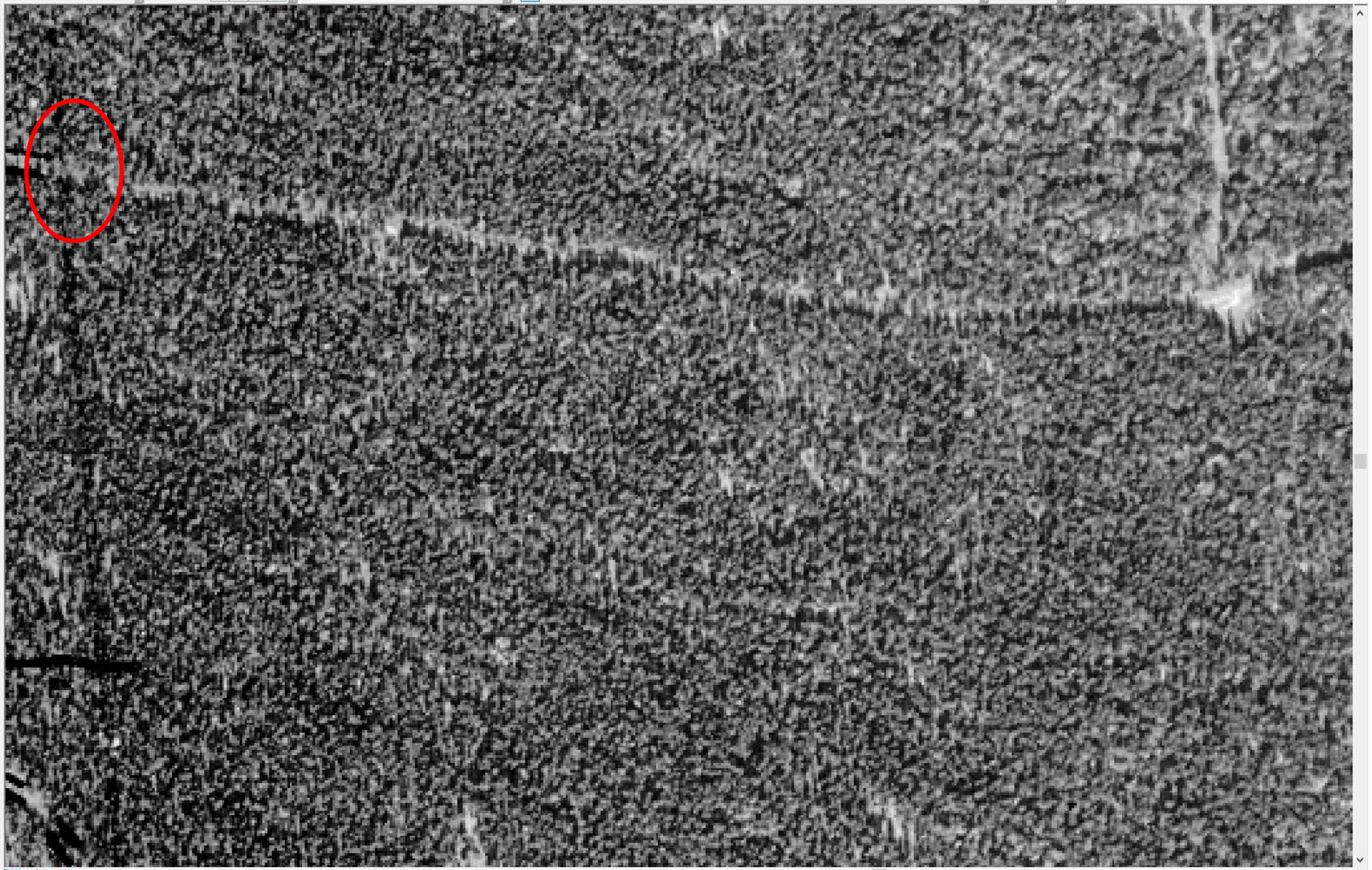

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- 1939_5_71.tif

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-149.046 61.529 Decimal Degrees

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2017WetlandLoss.mxd - ArcMap

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3D Analyst | 1939_2_081.tif | Georeferencing | 2_08.tif | Snapping | 1939_2_081.tif

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- FilledMatSu
- 2017StudyArea
- StatusTrendsStudyArea
- soils
- AKQUADS
- 2017CICLossStudyWetlands
- 2_08.tif
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  - Low : 0
- 1939_2_081.tif
- PASouth.tif
- ZeroLClipped.tif
- WestMosaicClipped.tif
- NacyLMosaic.tif
- 2017Hillshade.tif
- 1939_2_10.tif
- 1939_2_12.tif
- 1939_2_13c.tif
- 1939_2_15.tif
- 1939_2_17.tif
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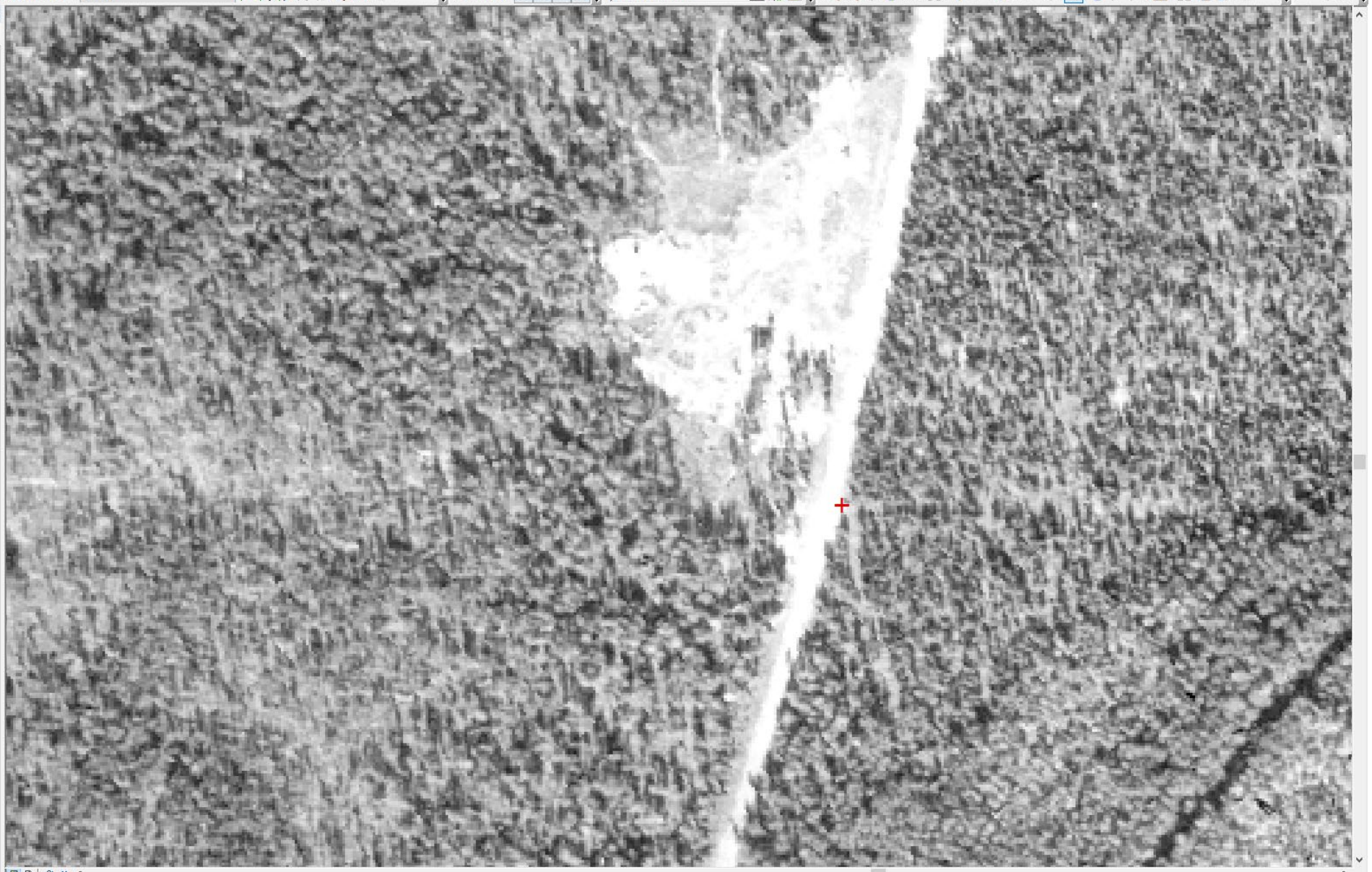

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  - rds
  - railroad
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  - RasterMasks
  - 2017StudyAreaPhotos
  - FilledMatSu
  - 2017StudyArea
  - StatusTrendsStudyArea
  - soils
  - AKQUADS
  - 2017CICLossStudyWetlands
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    - Value
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  - PASouth.tif
  - ZeroLClipped.tif
  - WestMosaicClipped.tif
  - NacyLMosaic.tif
  - 2017Hillshade.tif
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  - FilledMatSu
    - 2017StudyArea
  - StatusTrendsStudyArea
    - soils
    - AKQUADS
    - 2017CICLossStudyWetlands
    - 2_08.tif
      - Value
      - High : 255
      - Low : 0
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    - PASouth.tif
    - ZeroLClipped.tif
    - WestMosaicClipped.tif
    - NacyLMosaic.tif
    - 2017Hillshade.tif
    - 1939_2_10.tif
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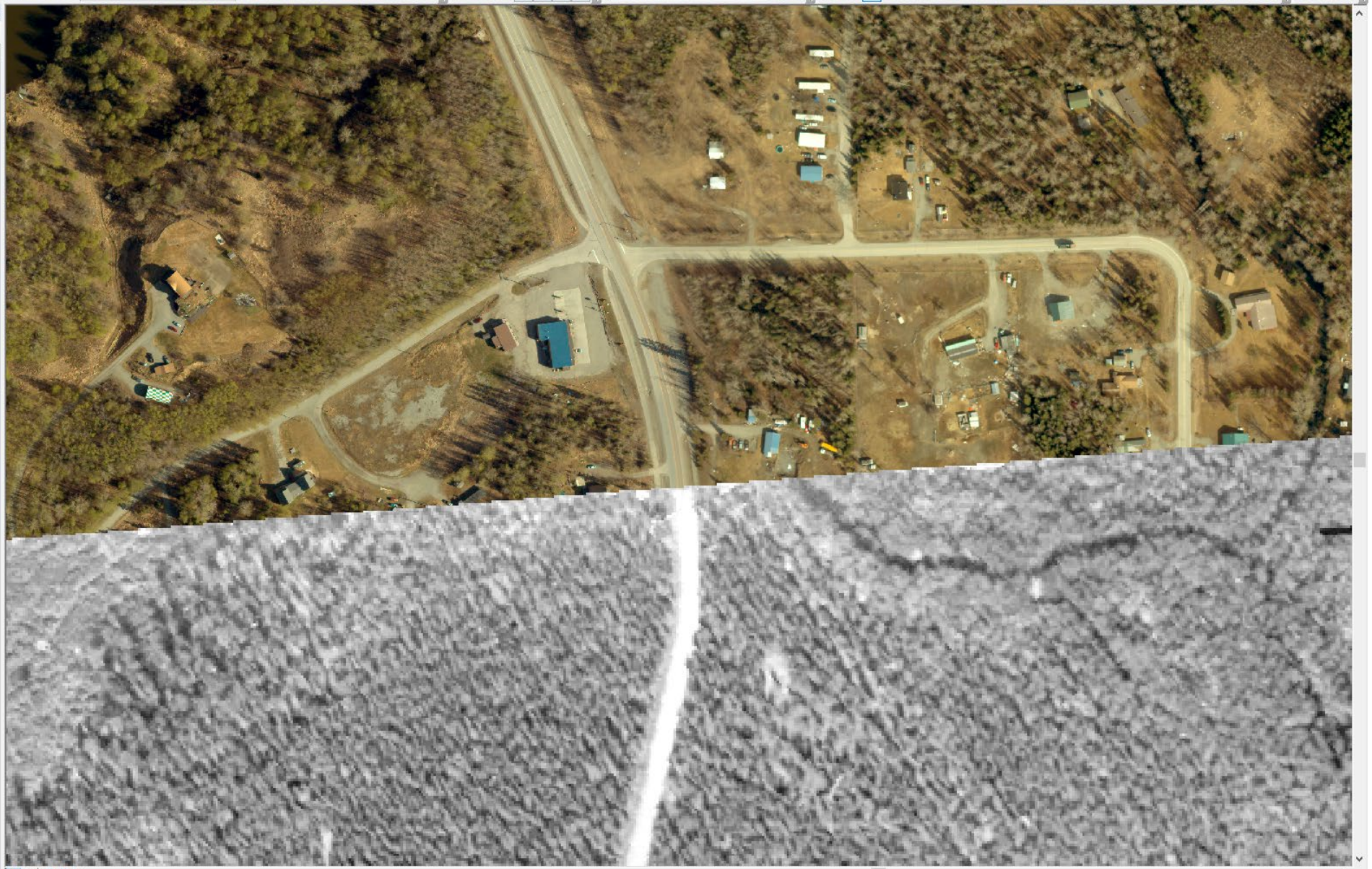

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2017WetlandLoss.mxd - ArcMap

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  - railroad
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  - RasterMasks
  - 2017StudyAreaPhotos
  - FilledMatSu
  - 2017StudyArea
  - StatusTrendsStudyArea
  - soils
  - AKQUADS
  - 2017CICLossStudyWetlands
  - CentralMosaic.tif
    - RGB
    - Red: Band_1
    - Green: Band_2
    - Blue: Band_3
  - 2_08.tif
    - Value
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    - Low : 0
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  - PASouth.tif
  - ZeroLClipped.tif
  - WestMosaicClipped.tif
  - NacyLMosaic.tif
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  - 1939_2_10.tif
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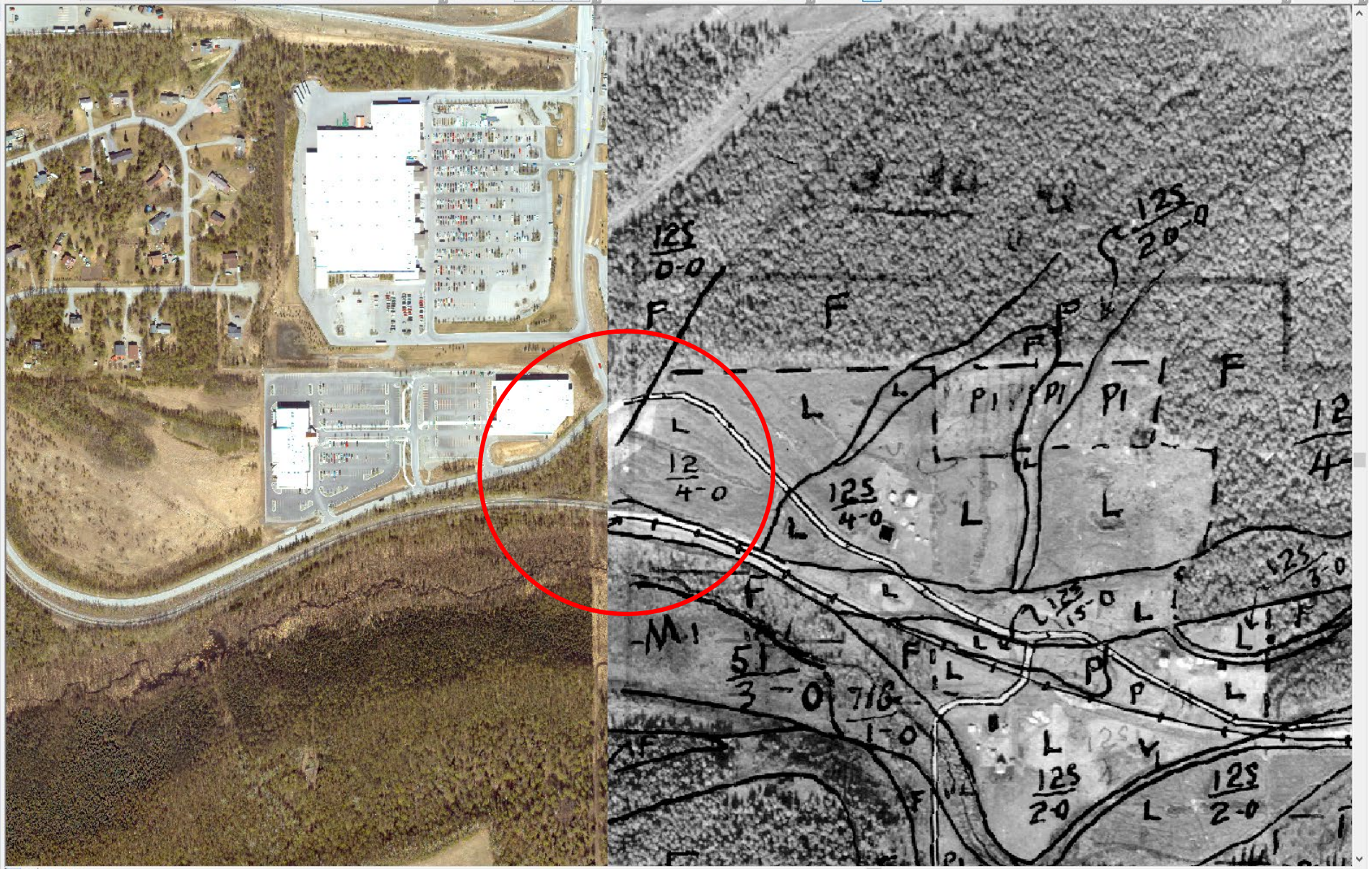

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2017WetlandLoss.mxd - ArcMap

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3D Analyst | 1939_2_081.tif | Georeferencing | 2_08.tif | Snapping | 1939_2_081.tif

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- Layers
  - PhotoPoints
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  - rds
  - railroad
  - FilledByType
  - RasterMasks
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  - FilledMatSu
  - 2017StudyArea
  - StatusTrendsStudyArea
  - soils
  - AKQUADS
  - 2017CICLossStudyWetlands
  - CentralMosaic.tif
    - RGB
    - Red: Band_1
    - Green: Band_2
    - Blue: Band_3
  - 2_08.tif
    - Value
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    - Low : 0
  - 1939_2_081.tif
  - PASouth.tif
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  - WestMosaicClipped.tif
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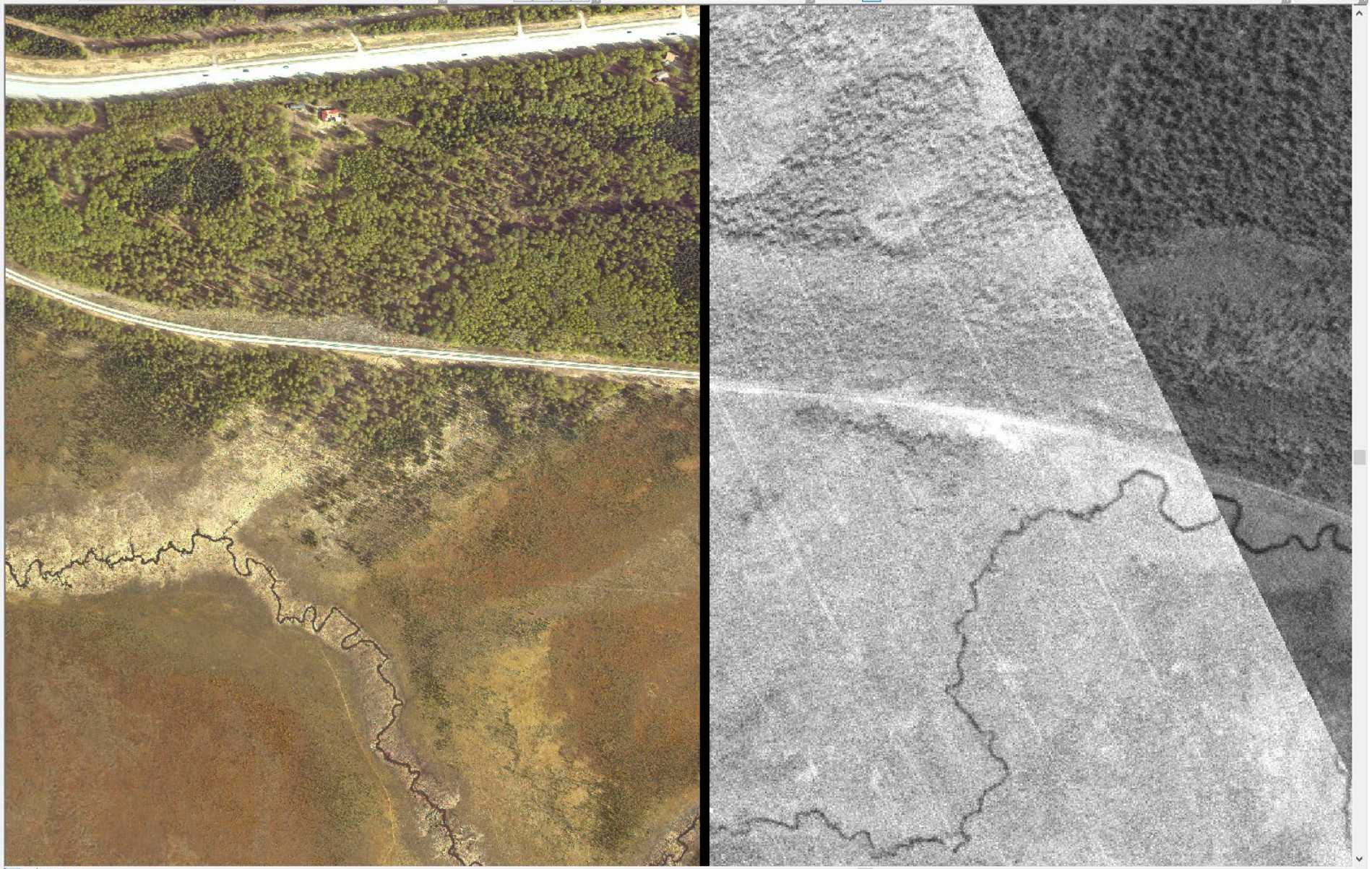

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2017WetlandLoss.mxd - ArcMap

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3D Analyst | 1939_2_081.tif | Snapping | 1939_2_081.tif

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- AKQUADS
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-149.823 61.574 Decimal Degrees

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2017WetlandLoss.mxd - ArcMap

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3D Analyst | 1939_2_081.tif | Snapping | 1939_2_081.tif

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- WestMosaicClipped.tif
- NacyLMosaic.tif
- 2017Hillshade.tif
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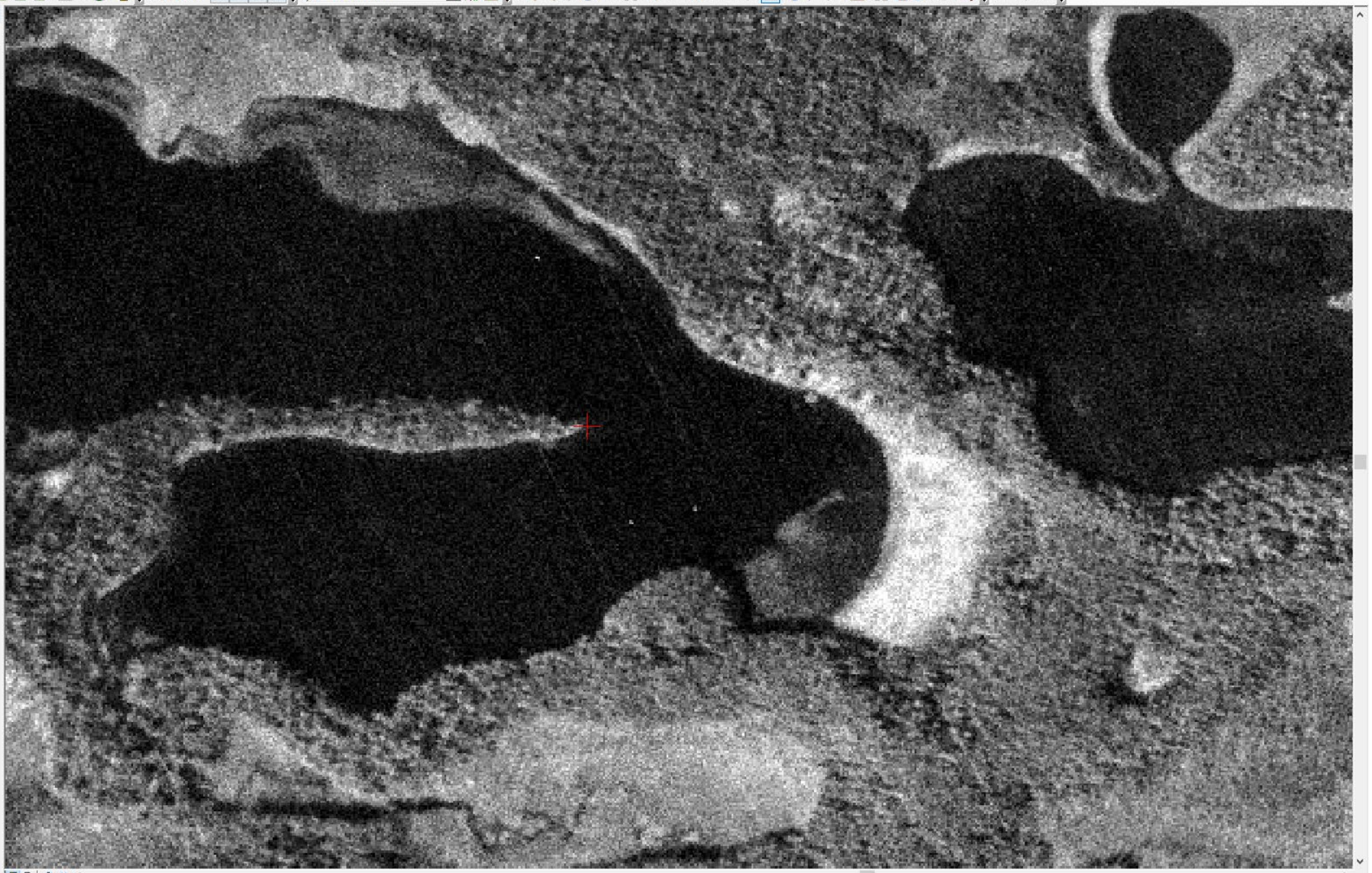

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3D Analyst | 1939_2_081.tif | Georeferencing | 2_08.tif | Snapping | 1939_2_081.tif

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- Layers
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  - rds
  - railroad
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    - RasterMasks
  - 2017StudyAreaPhotos
  - FilledMatSu
    - 2017StudyArea
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    - 2017ClCLossStudyWetlands
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2017WetlandLoss.mxd - ArcMap

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- Layers
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    - RasterMasks
  - 2017StudyAreaPhotos
  - FilledMatSu
    - 2017StudyArea
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2017WetlandLoss.mxd - ArcMap

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- PhotoPoints
- PhotoPoints
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- 2017StudyArea
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- soils
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- 2_08.tif
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2017WetlandLoss.mxd - ArcMap

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- rds
- railroad
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- FilledMatSu
- 2017StudyArea
- StatusTrendsStudyArea
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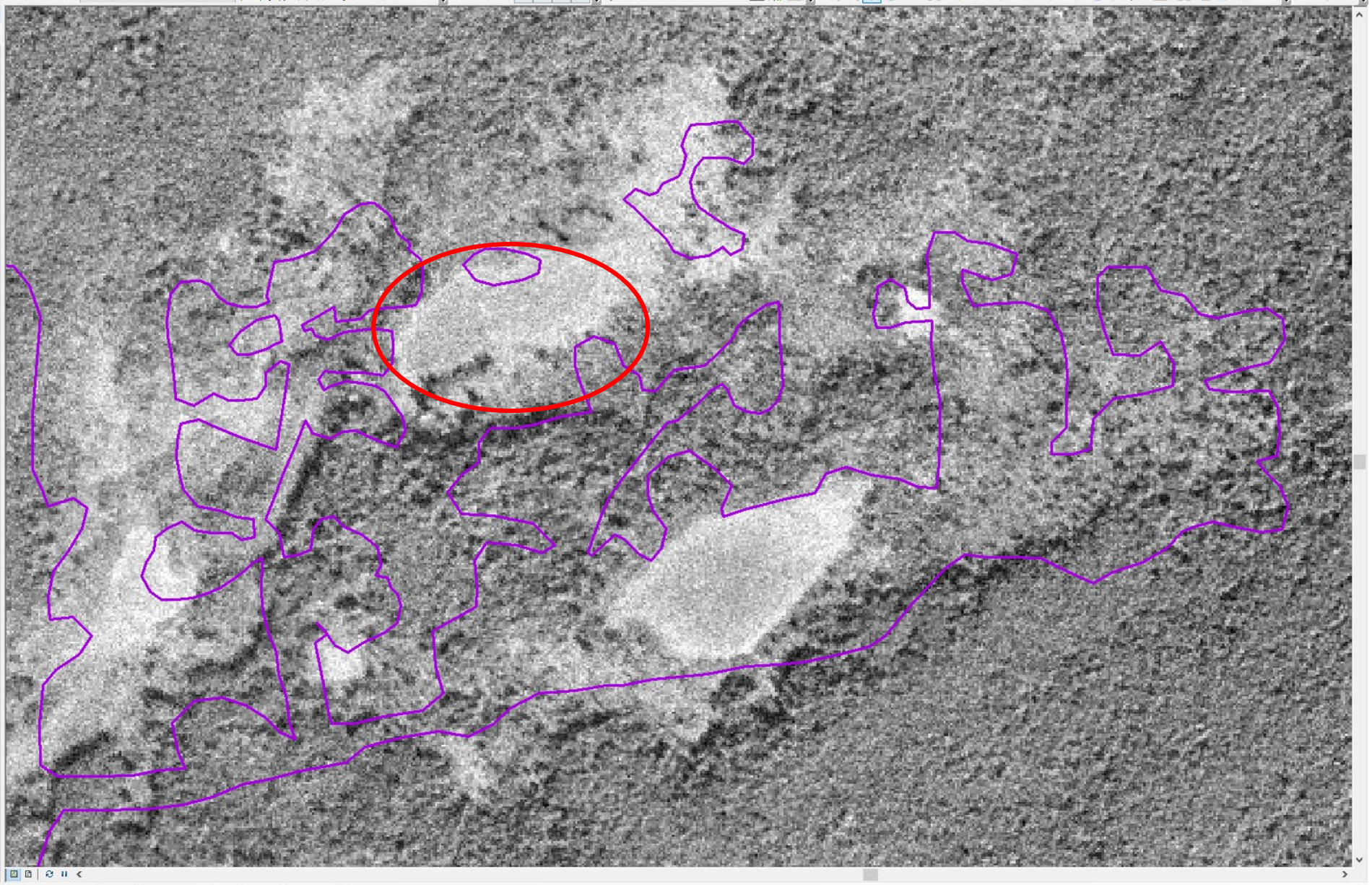

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2017WetlandLoss.mxd - ArcMap

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  - 2017StudyArea
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  - PASouth.tif
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  - WestMosaicClipped.tif
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2017WetlandLoss.mxd - ArcMap

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3D Analyst | 1939_2_081.tif | Snapping | 1939_2_081.tif

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- PhotoPoints
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- FilledByType
- RasterMasks
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- FilledMatSu
- 2017StudyArea
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-149.666 61.553 Decimal Degrees

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2017WetlandLoss.mxd - ArcMap

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3D Analyst | 1939_2_081.tif | Snapping | 1939_2_081.tif

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- PhotoPoints
- rds
- railroad
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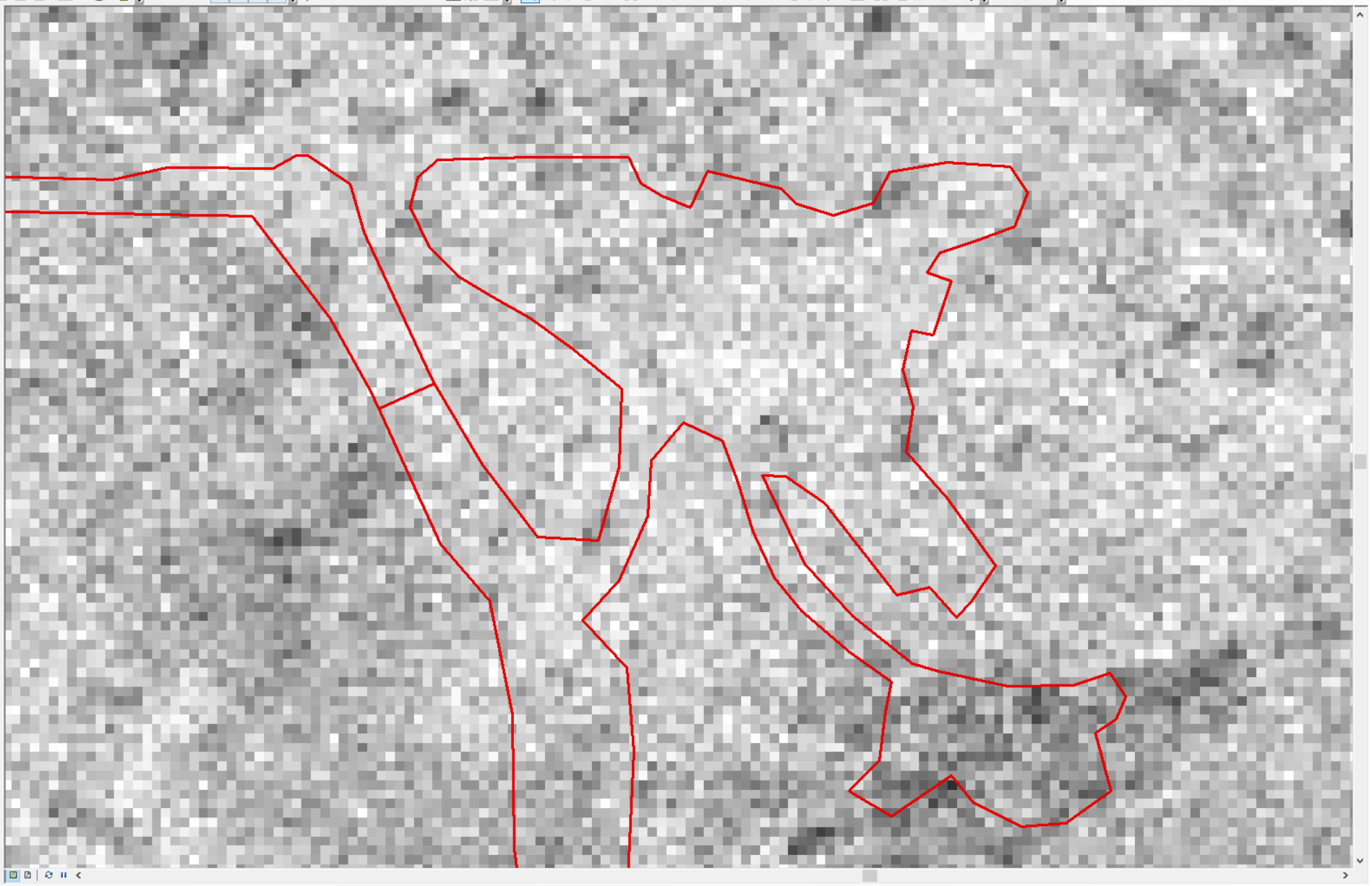
- RasterMasks
- 2017StudyAreaPhotos
- FilledMatSu
- 2017StudyArea
- StatusTrendsStudyArea
- soils
- AKQUADS
- 2017ClCLossStudyWetlands
- ZeroLClipped.tif
- WestMosaicClipped.tif
- NacyLMosaic.tif
- 2017Hillshade.tif
- 1939_2_081.tif
- PASouth.tif
- 1939_2_10.tif
- 1939_2_12.tif
- 1939_2_13c.tif
- 1939_2_15.tif
- 1939_2_17.tif
- 1939_2_67.tif
- 1939_2_69.tif
- 1939_2_70.tif
- 1939_2_72.tif
- 1939_2_74.tif
- 1939_2_76.tif
- 1939_2_78.tif
- 1939_2_80.tif
- 1939_2_81.tif
- 1939_3_29.tif
- 1939_3_31.tif
- 1939_3_33.tif
- 1939_3_35.tif
- 1939_3_37.tif
- 1939_3_39.tif
- 1939_3_41.tif
- 1939_3_65.tif
- 1939_3_67.tif
- 1939_3_69.tif
- 1939_3_71.tif
- 1939_3_73.tif
- 1939_3_75.tif
- 1939_4_32.tif
- 1939_5_52.tif
- 1939_5_54.tif
- 1939_5_57.tif
- 1939_5_59.tif

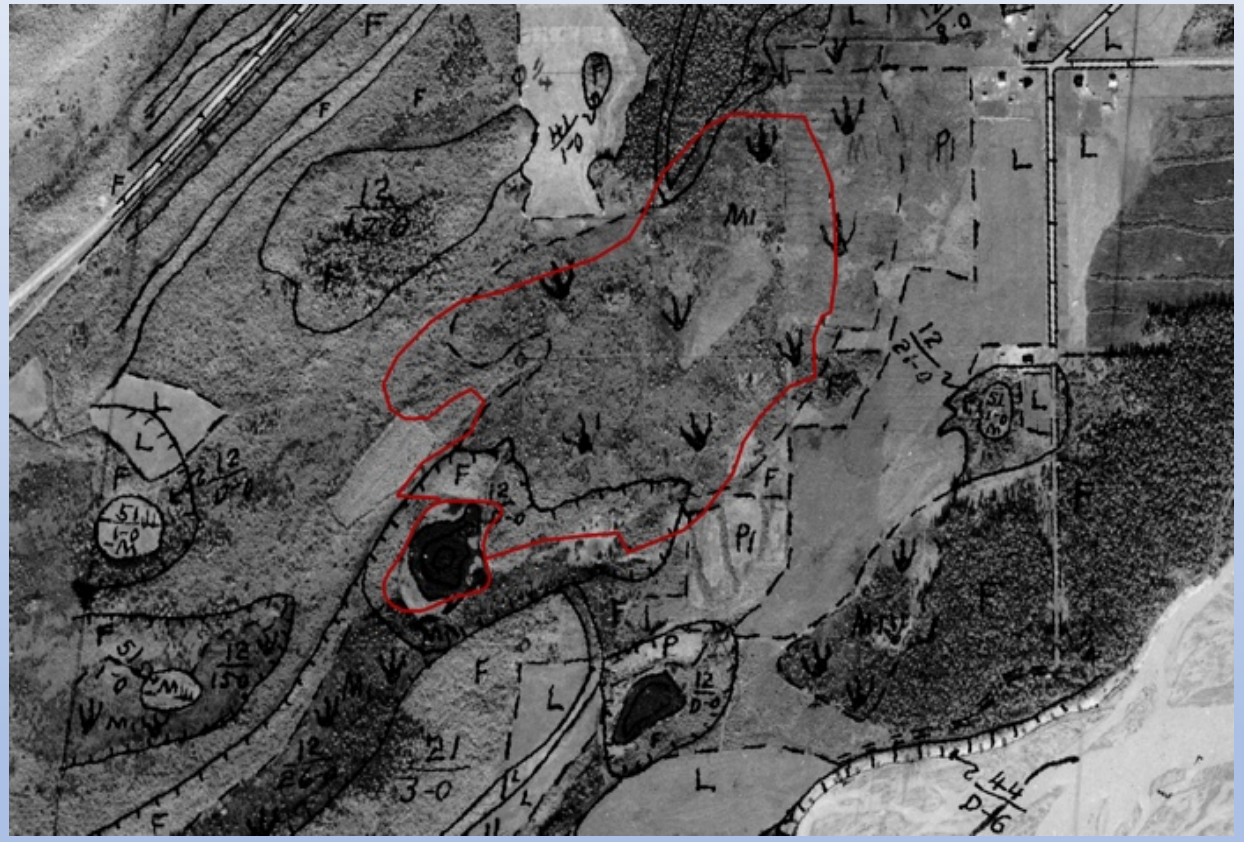


Drawing | Times New Roman | 11

Type here to search

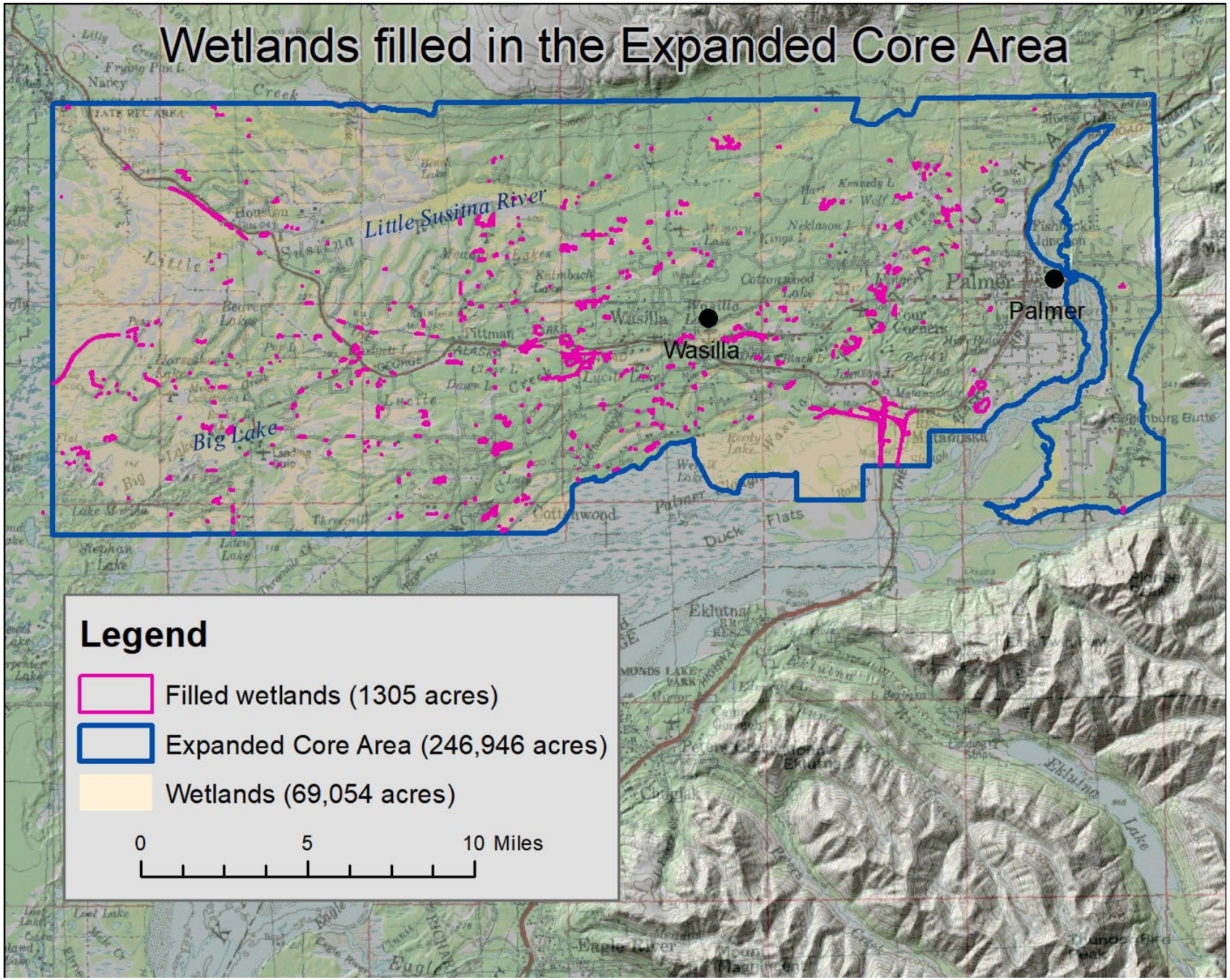
12:06 PM
11/5/2018

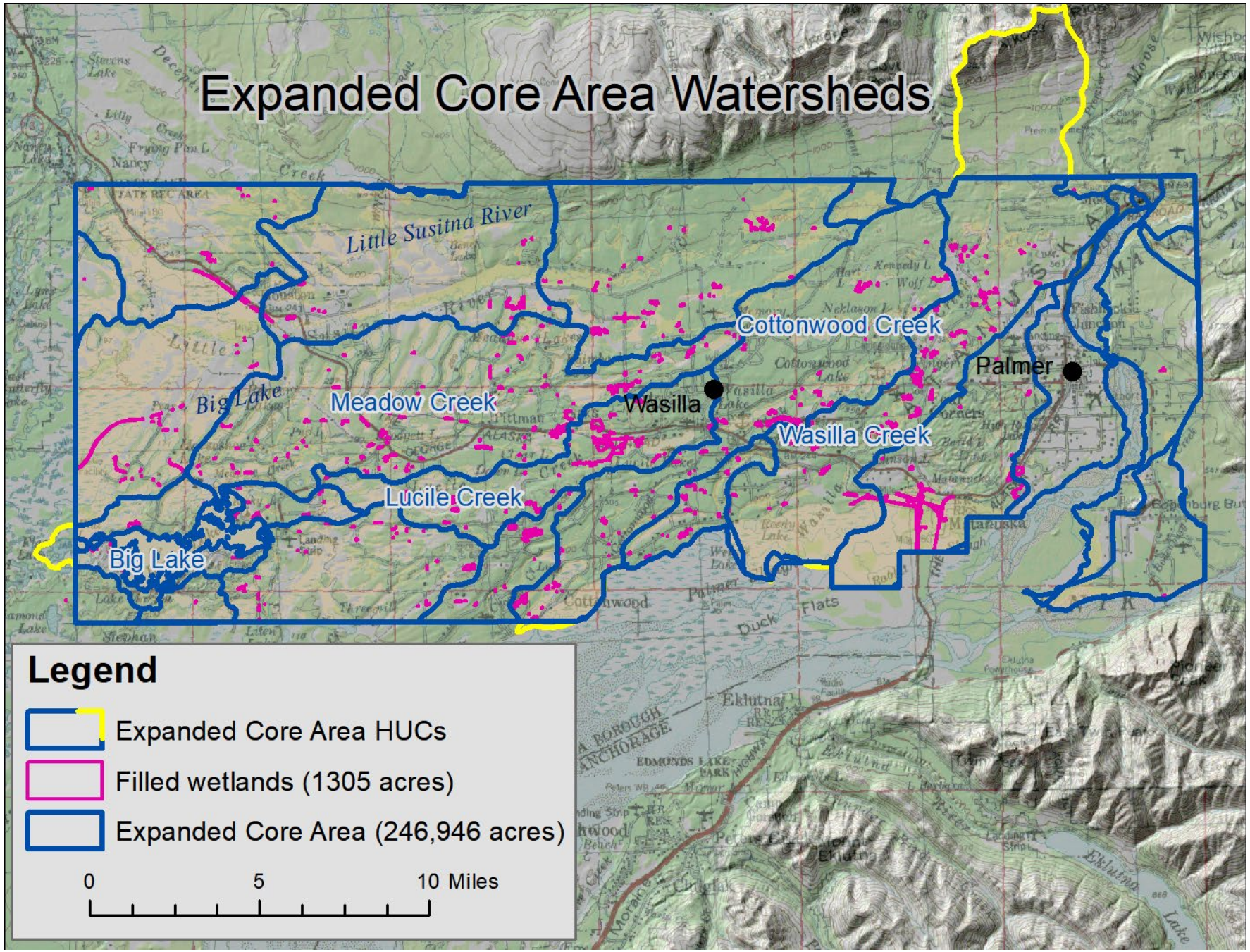
1939

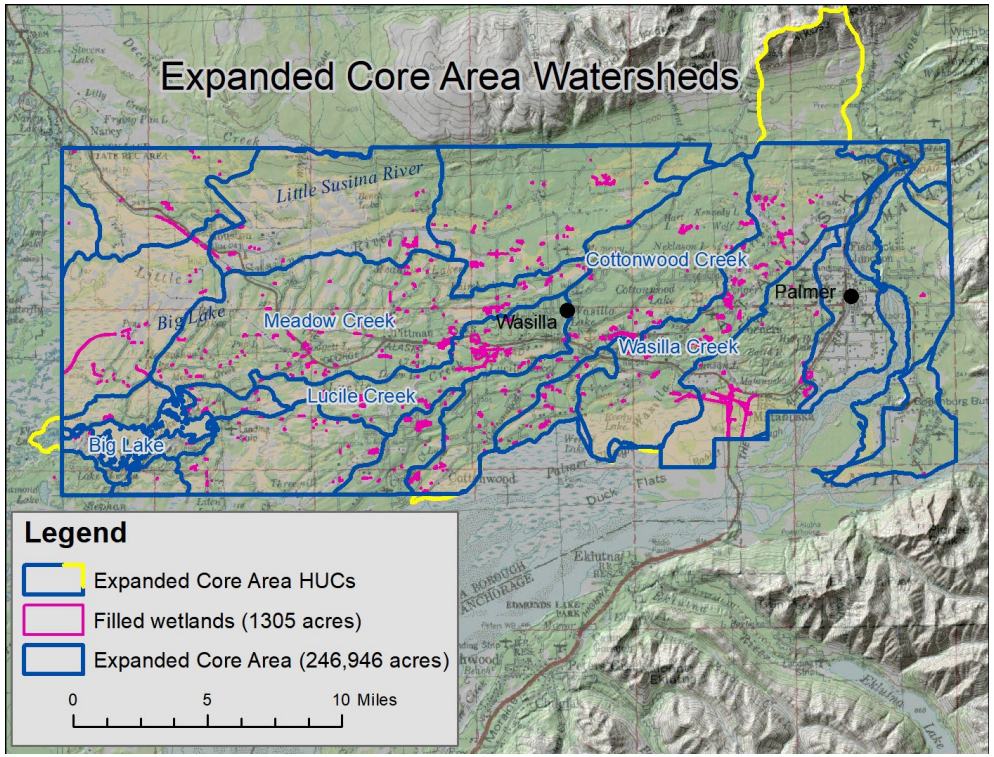


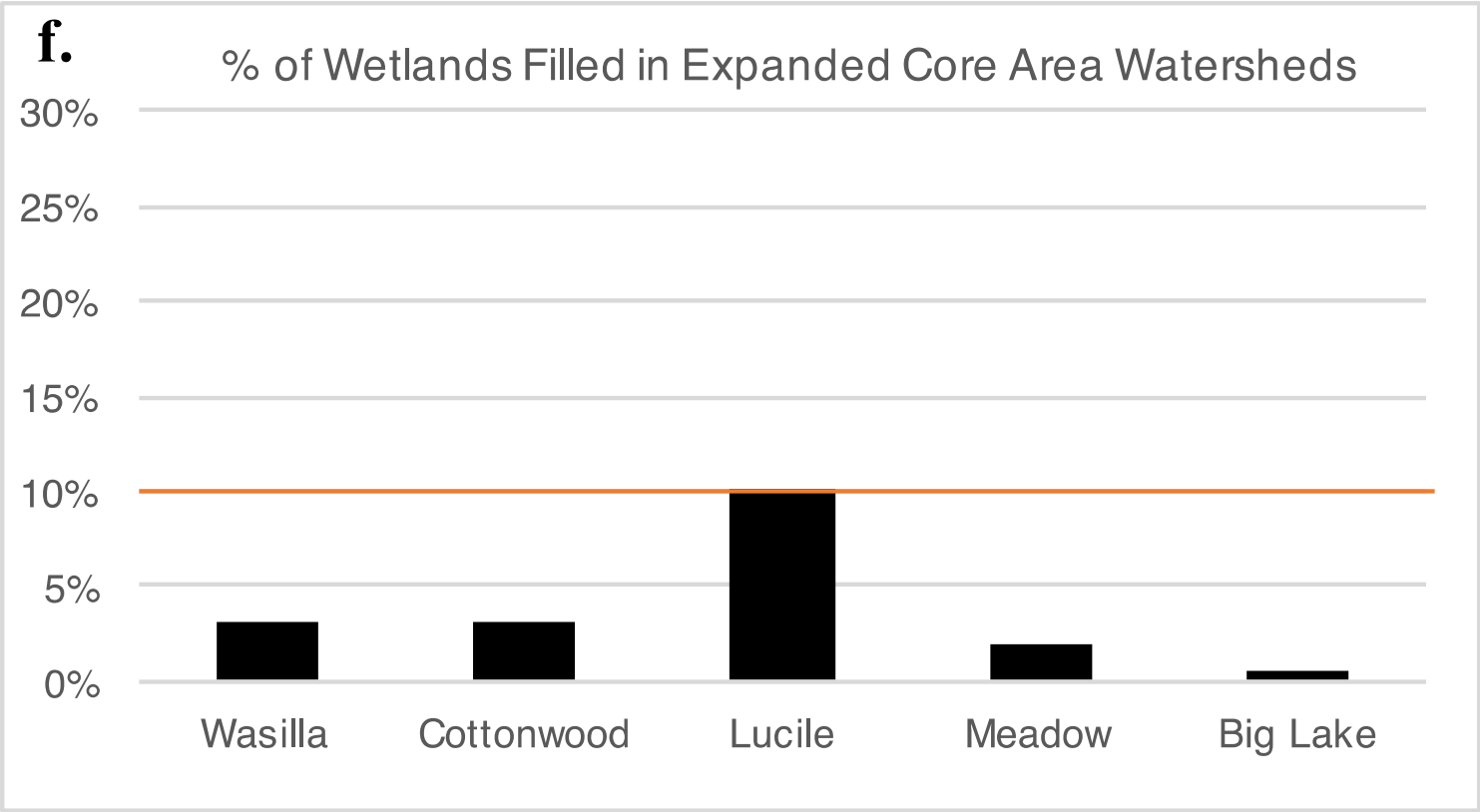
2017

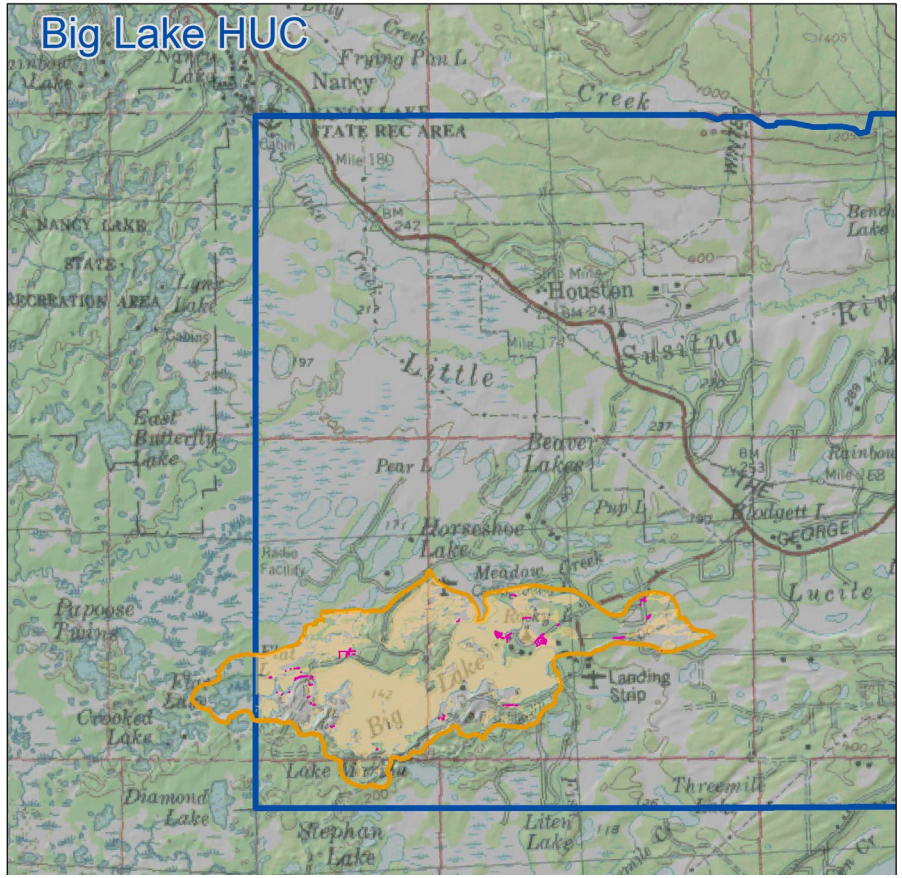
Wetlands filled in the Expanded Core Area

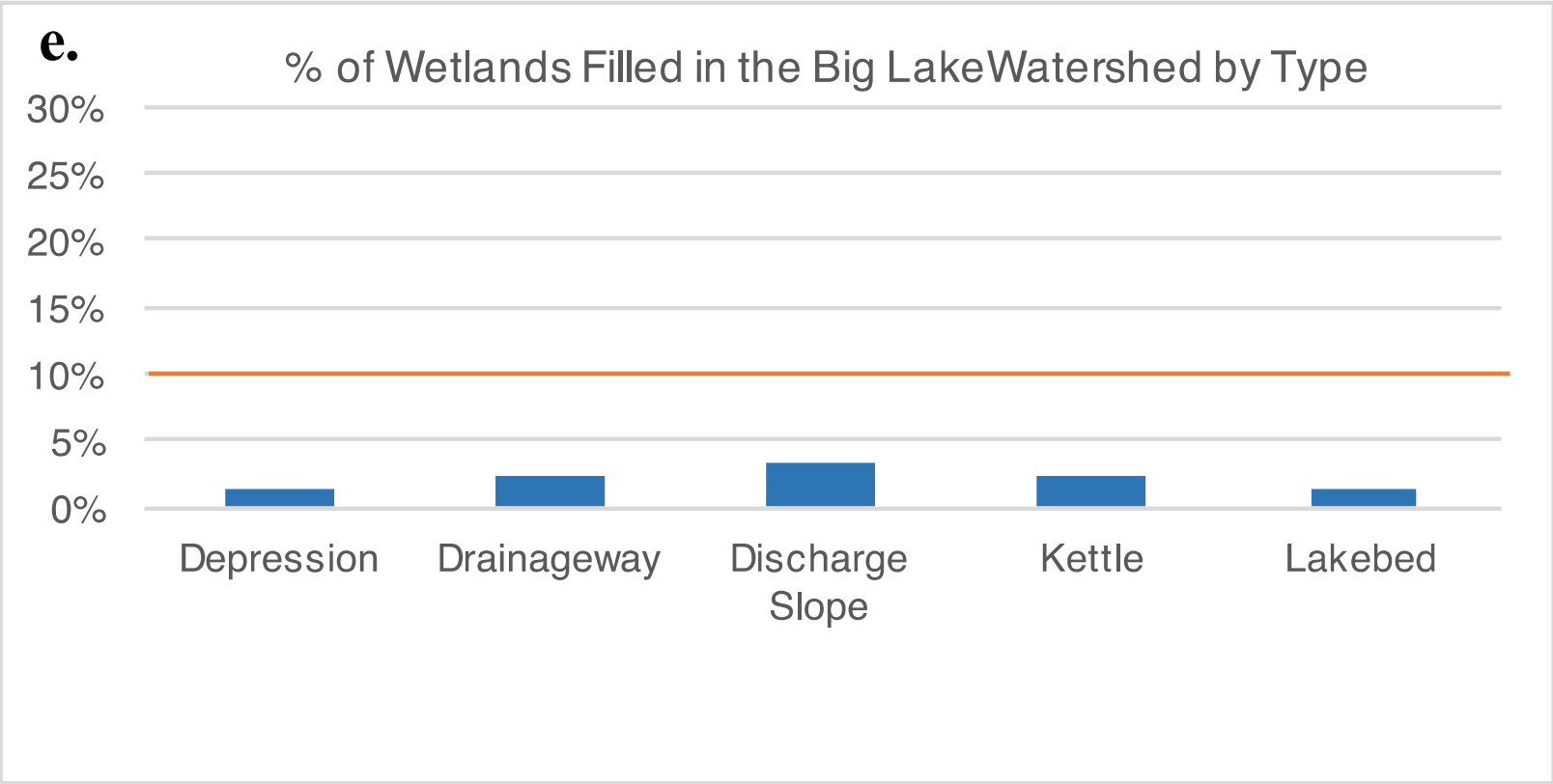


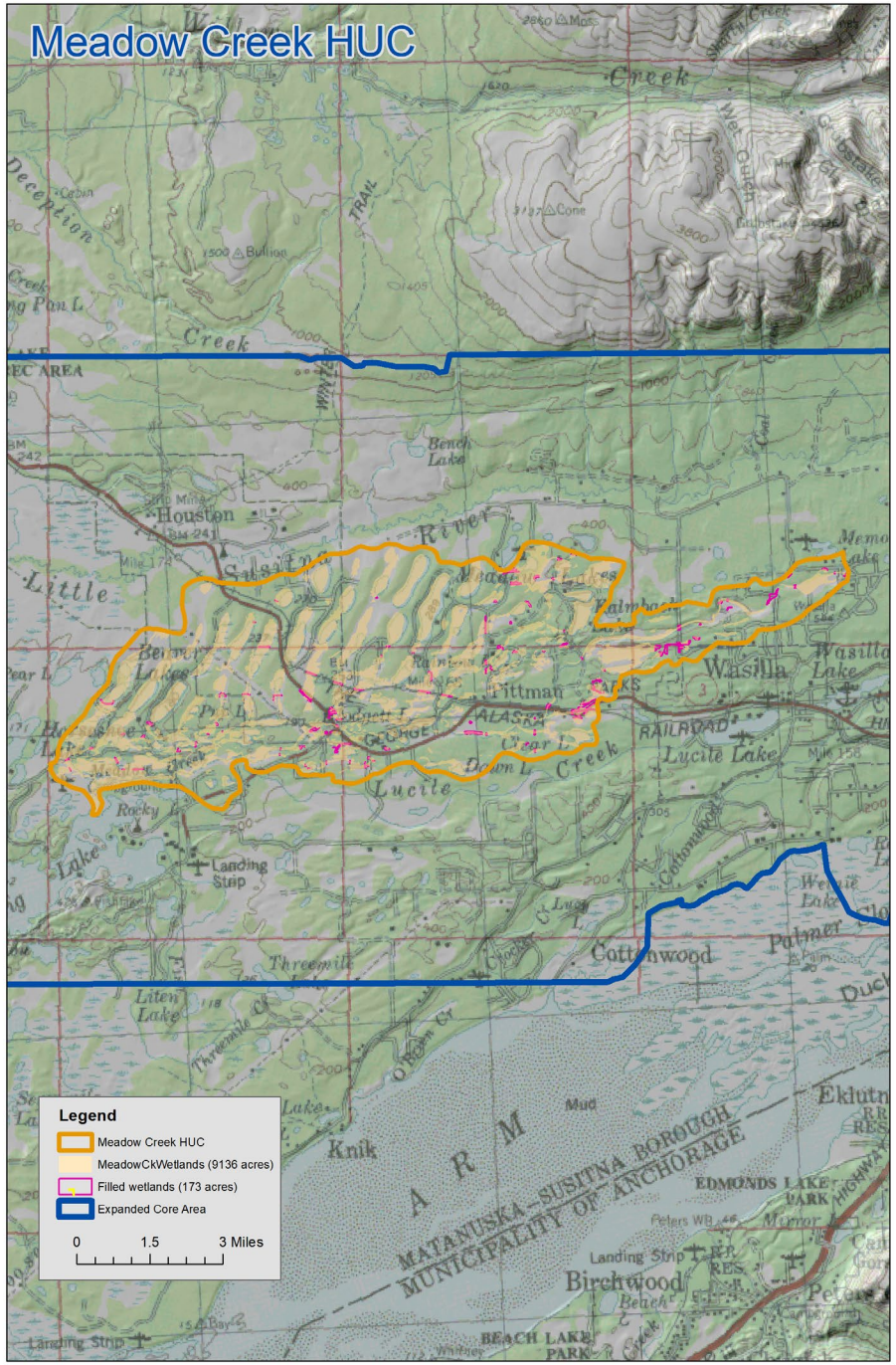

Expanded Core Area Watersheds
Little Susitna River
Cottonwood Creek
Palmer
Wasilla
Meadow Creek
Wasilla Creek
Lucile Creek
Big Lake
Legend
Expanded Core Area HUCs
Filled wetlands (1305 acres)
Expanded Core Area (246,946 acres)
0
5
10 Miles


Expanded Core Area Watersheds
Little Susitna River
Cottonwood Creek
Palmer
Wasilla
Meadow Creek
Wasilla Creek
Lucile Creek
Big Lake
Legend
Expanded Core Area HUCs
Filled wetlands (1305 acres)
Expanded Core Area (246,946 acres)
0
5
10 Miles

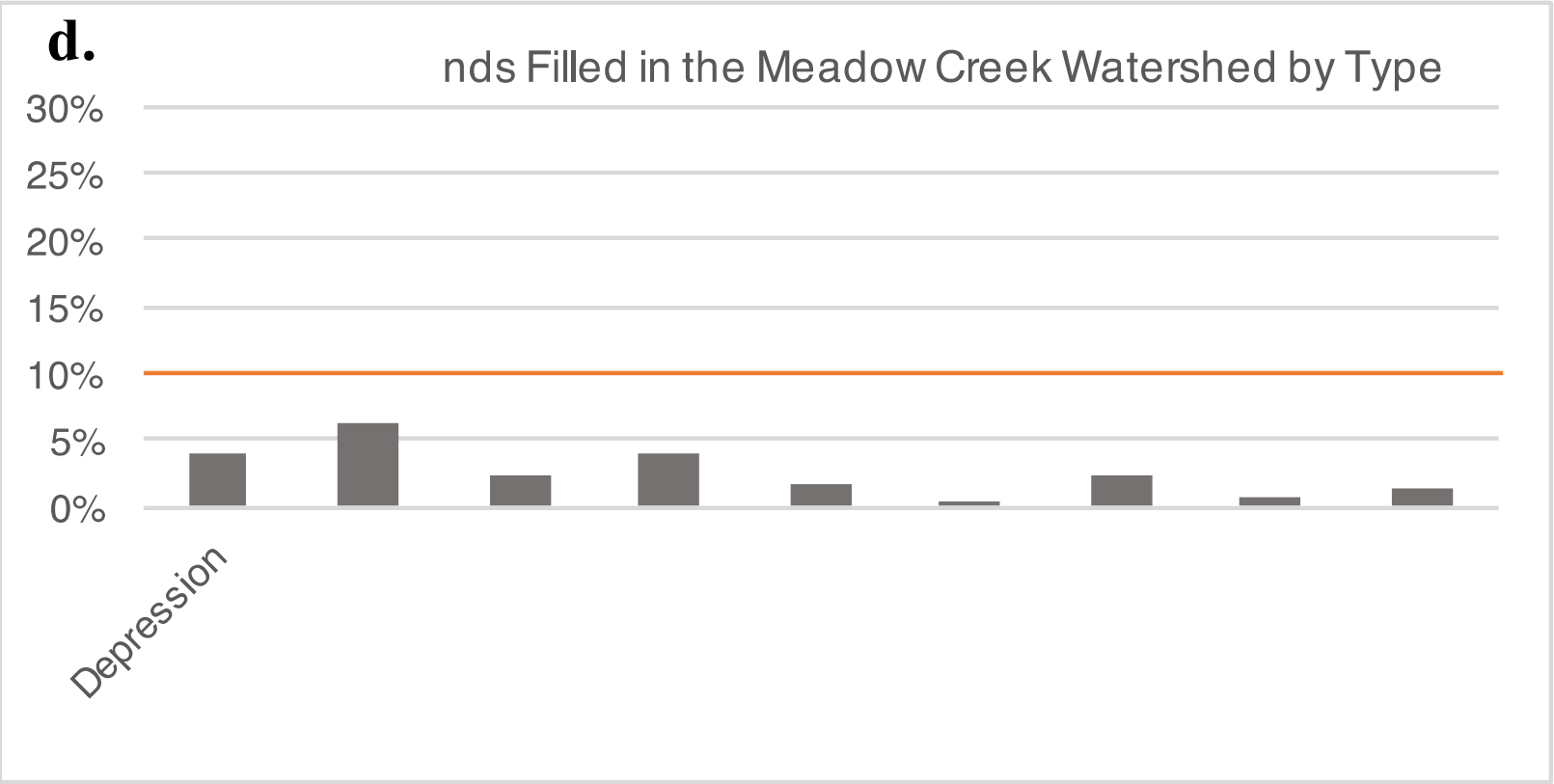

f.
% of Wetlands Filled in Expanded Core Area Watersheds
30%
25%
20%
15%
10%
5%
0%
Wasilla
Cottonwood
Lucile
Meadow
Big Lake

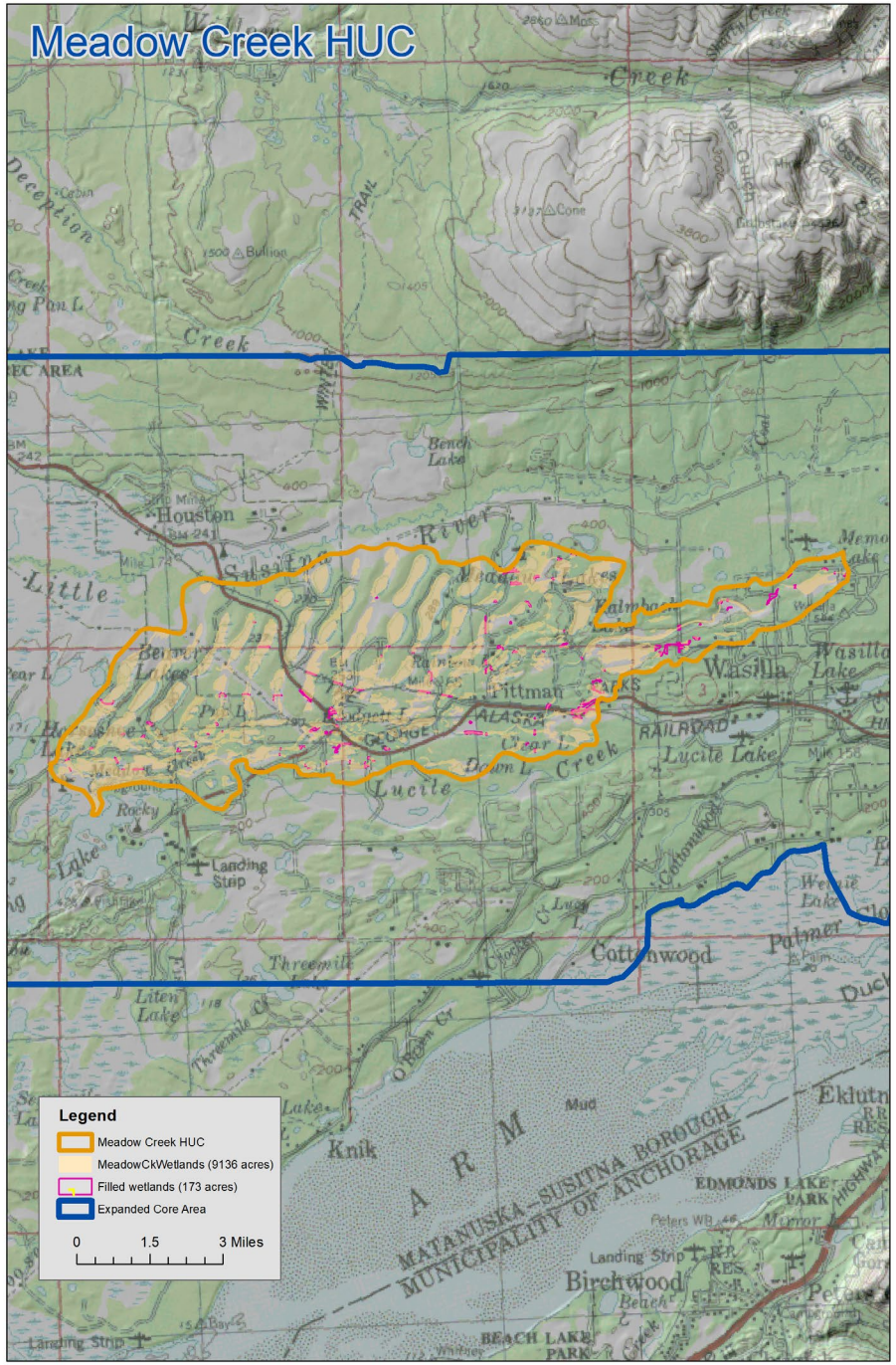

Big Lake HUC
Nancy
Creek
STATE REC AREA
NANCY LAKE
STATE
RECREATION AREA
Houston
Little
Susitna
Beaver
Lakes
Pear L
Pup L
Horseshoe
Lake
Meadow Creek
Lucile
Papoose
Twins
Crooked
Lake
Big
Lake
Landing
Strip
Lake
Diamond
Lake
Stephan
Lake
Liten
Lake
Threemile
East
Butterfly
Lake
Klodgett L
GEORGE

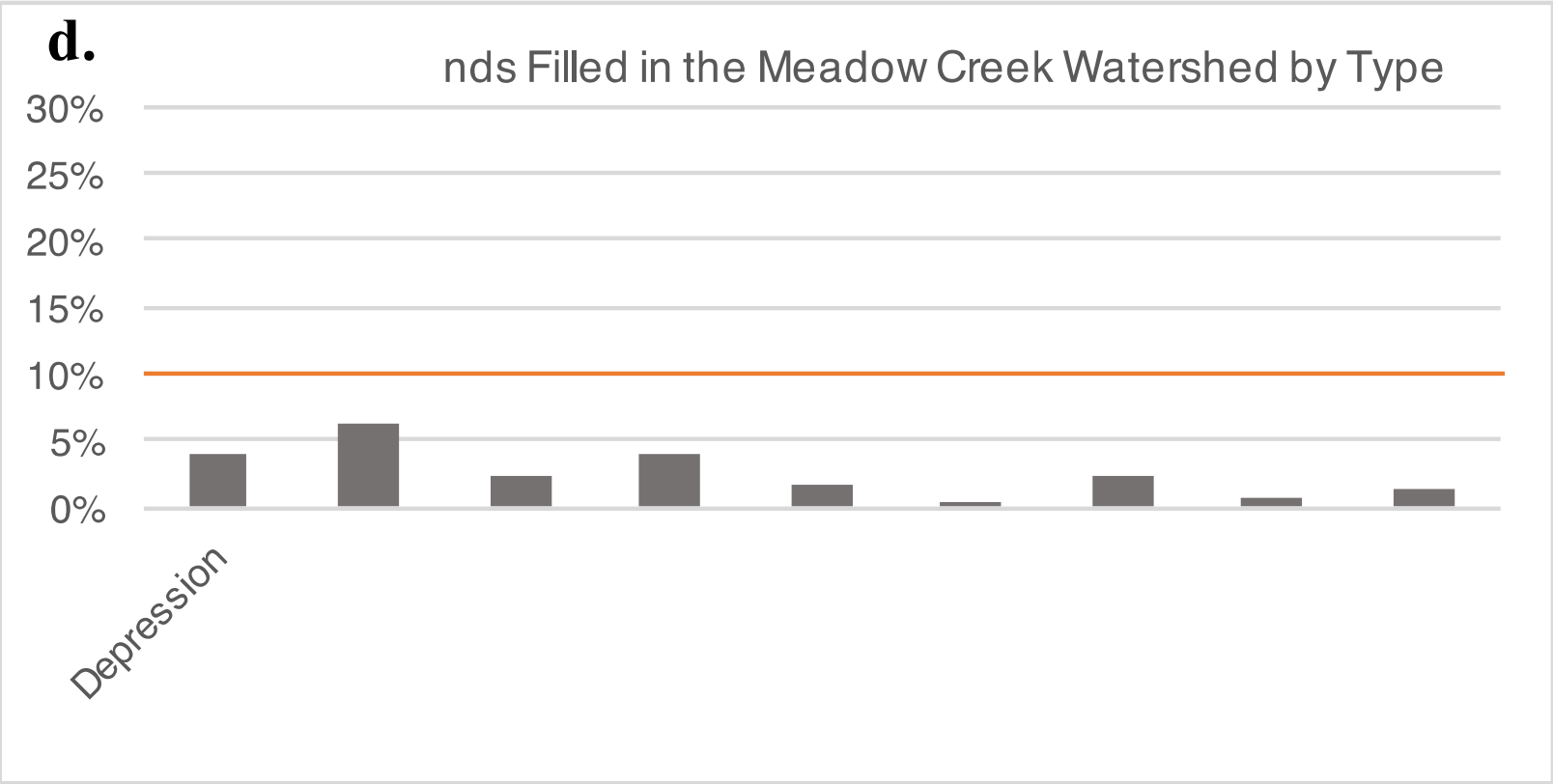

e.
% of Wetlands Filled in the Big LakeWatershed by Type
30%
25%
20%
15%
10%
5%
0%
Depression
Drainageway
Discharge Slope
Kettle
Lakebed


Meadow Creek HUC
Legend
Meadow Creek HUC
MeadowCkWetlands (9136 acres)
Filled wetlands (173 acres)
Expanded Core Area
0
1.5
3 Miles
Houston
Wasilla
Lucite Lake
Cottonwood
Knik
ARM
MATANUSKA-SUSITNA BOROUGH
MUNICIPALITY OF ANCHORAGE
Birchwood
EDMONDS LAKE PARK
BEACH LAKE PARK

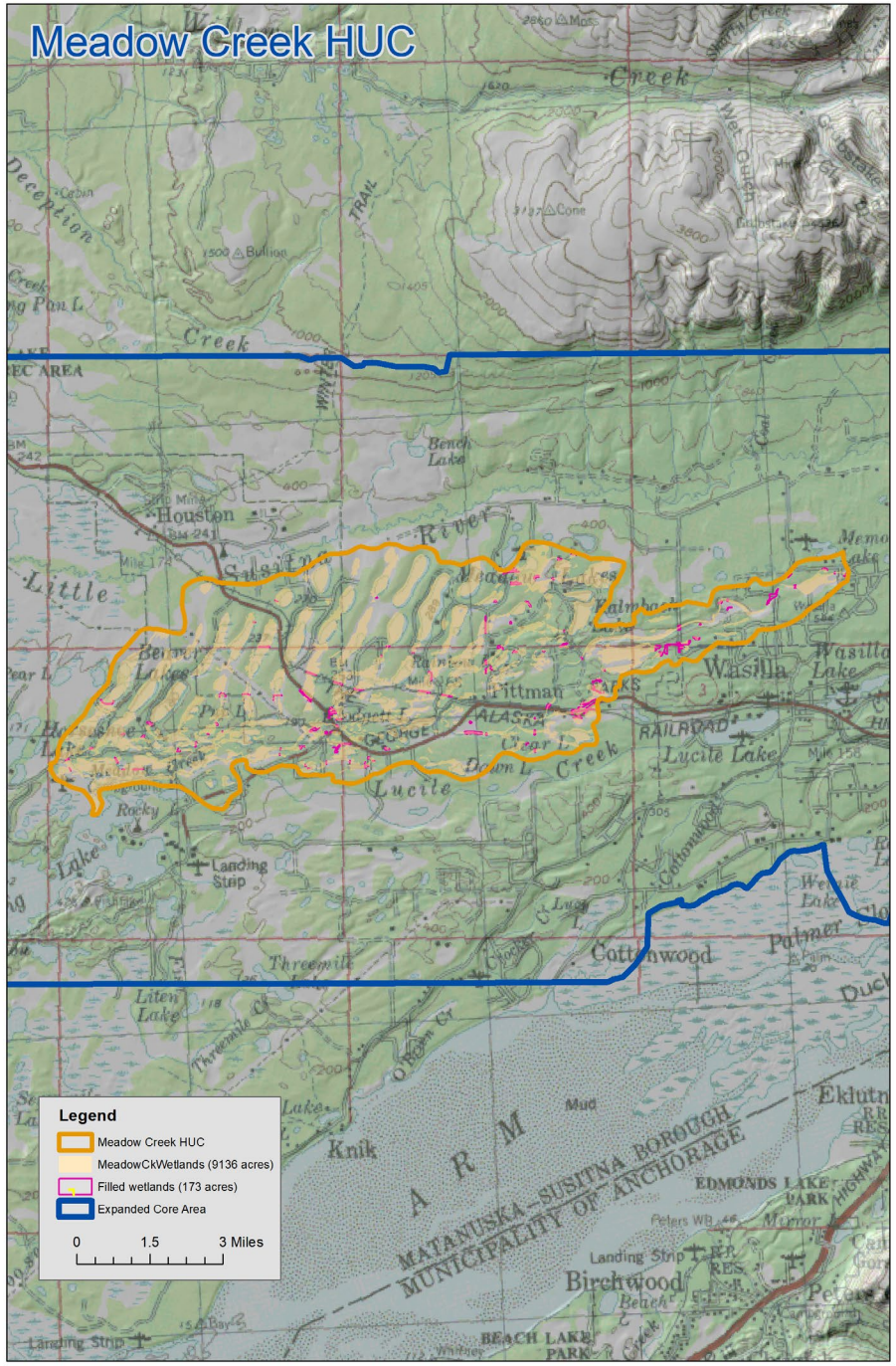
d.

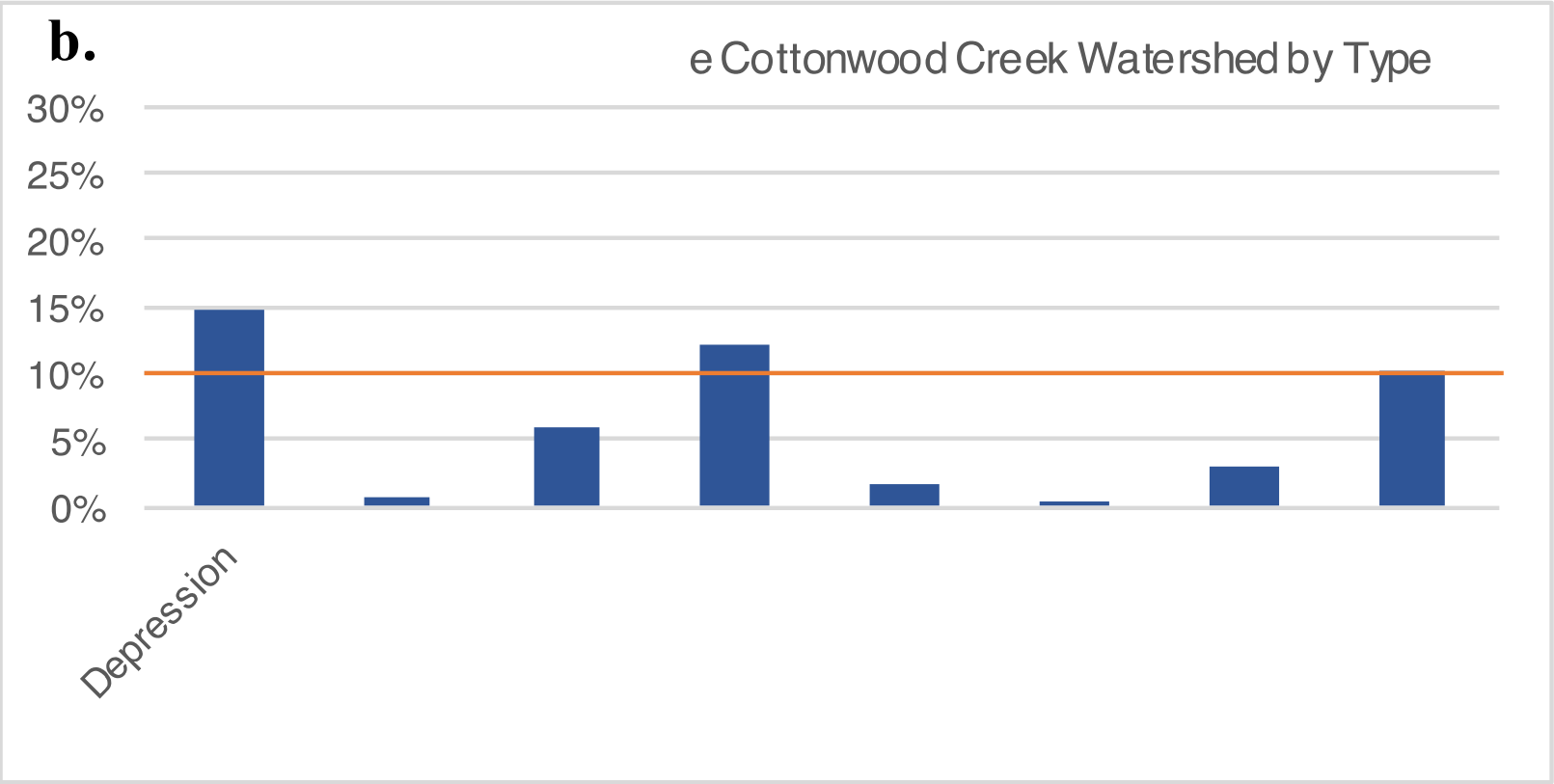

nds Filled in the Meadow Creek Watershed by Type
30%
25%
20%
15%
10%
5%
0%
Depression

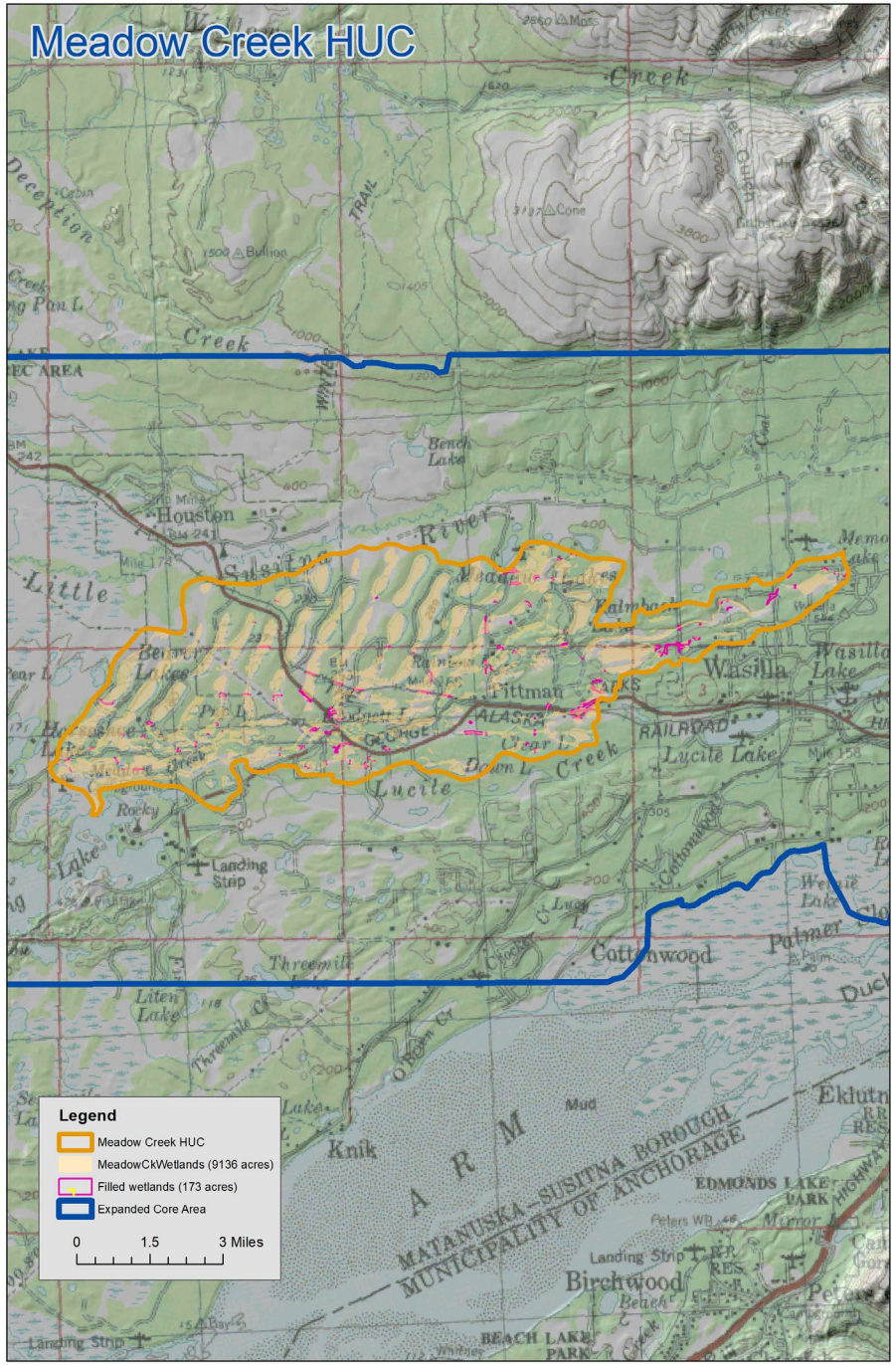


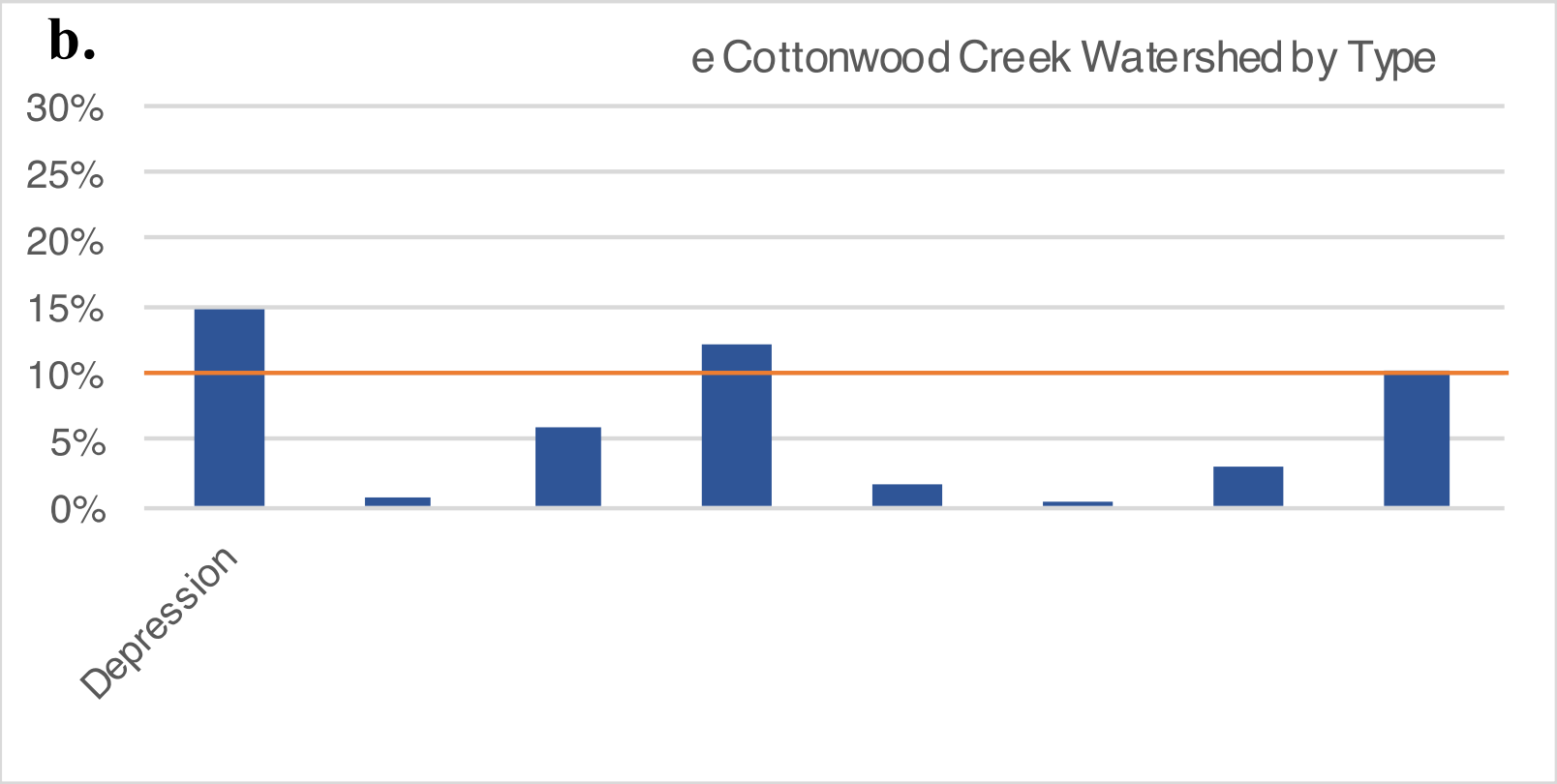


- Meadow Creek Watershed
  - Drainageways

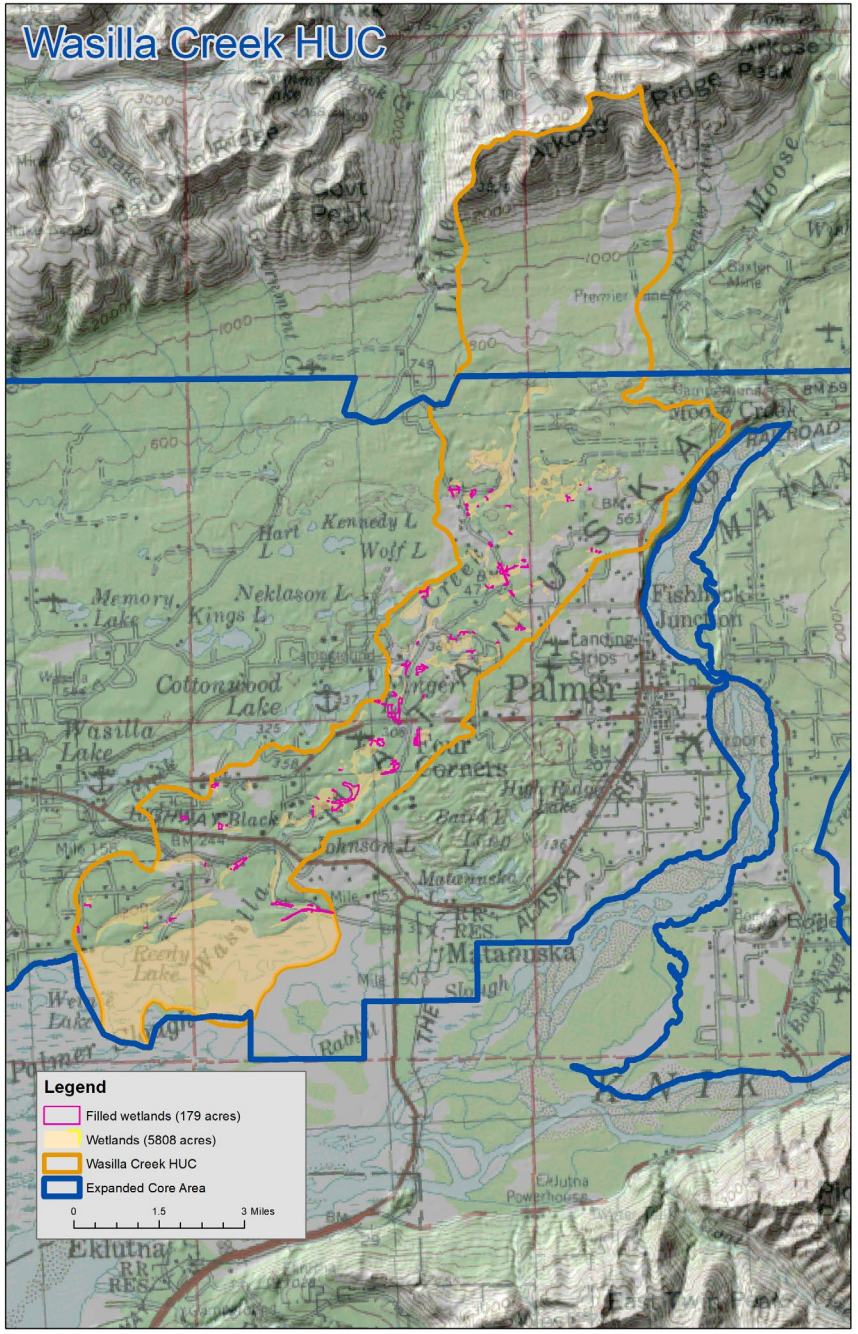

Meadow Creek HUC
Legend
Meadow Creek HUC
MeadowCkWetlands (9136 acres)
Filled wetlands (173 acres)
Expanded Core Area
0
1.5
3 Miles
Houston
Wasilla
Lucite Lake
Cottonwood
Knik
ARM
MATANUSKA-SUSITNA BOROUGH
MUNICIPALITY OF ANCHORAGE
Birchwood
EDMONDS LAKE PARK
BEACH LAKE PARK

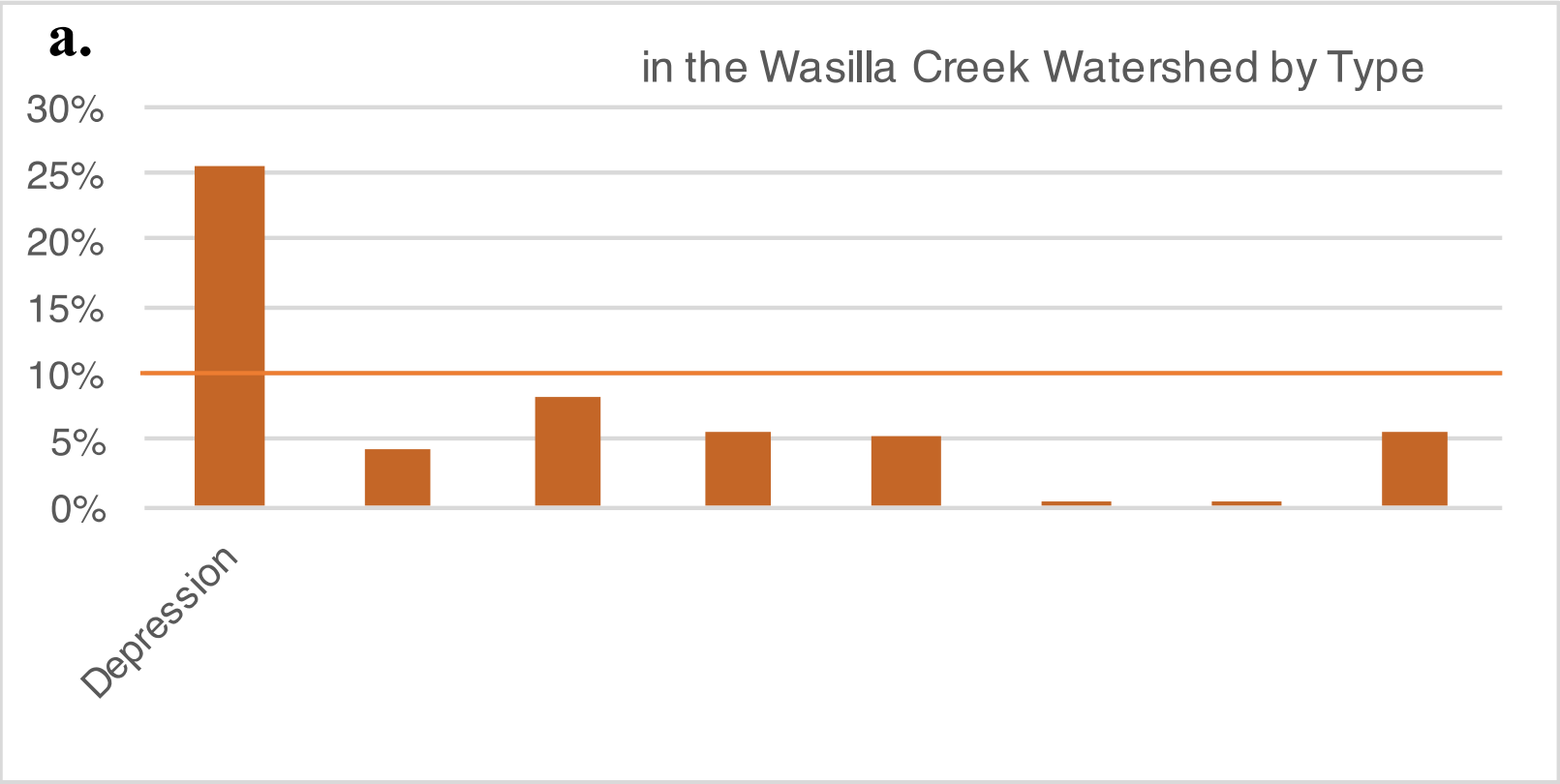

b.
e Cottonwood Creek Watershed by Type
30%
25%
20%
15%
10%
5%
0%
Depression

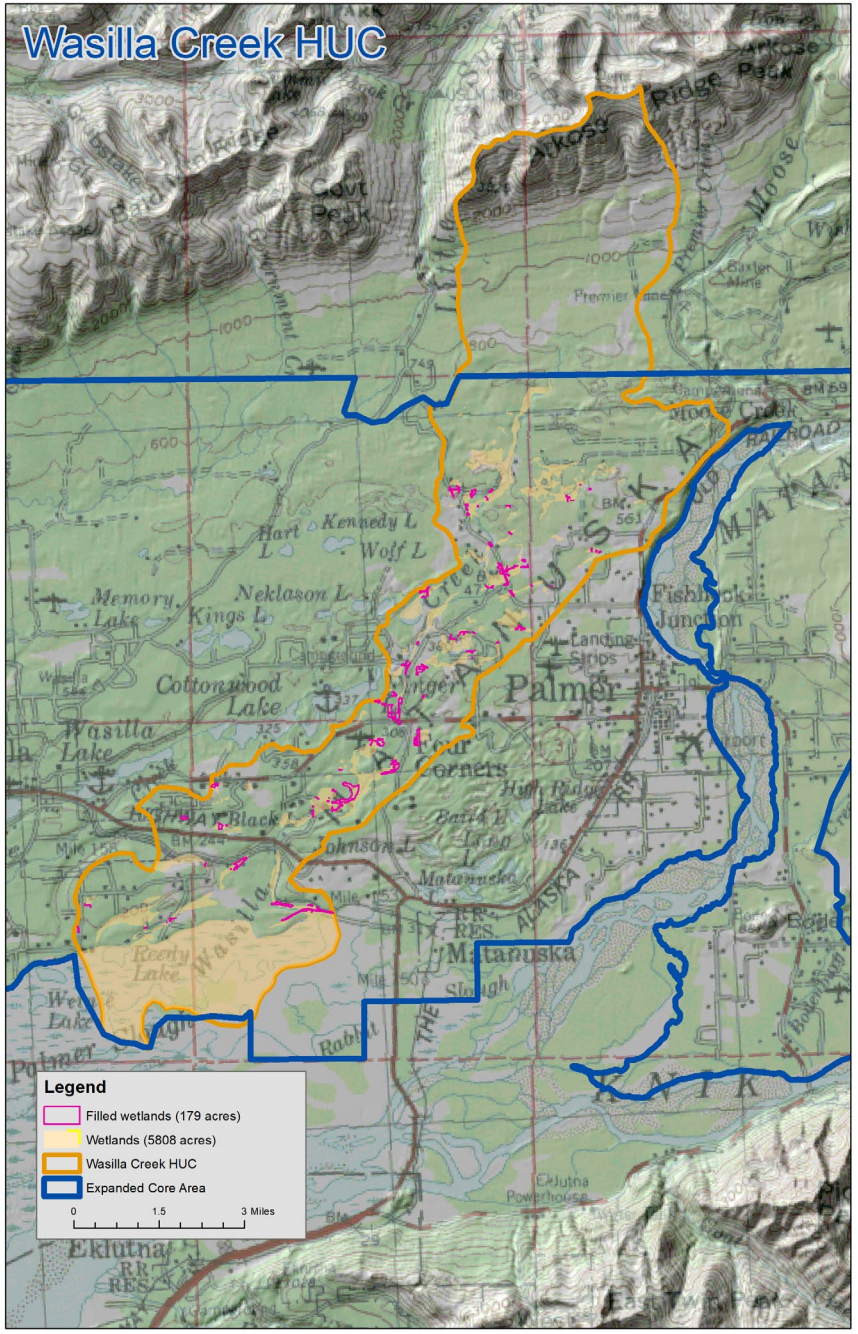


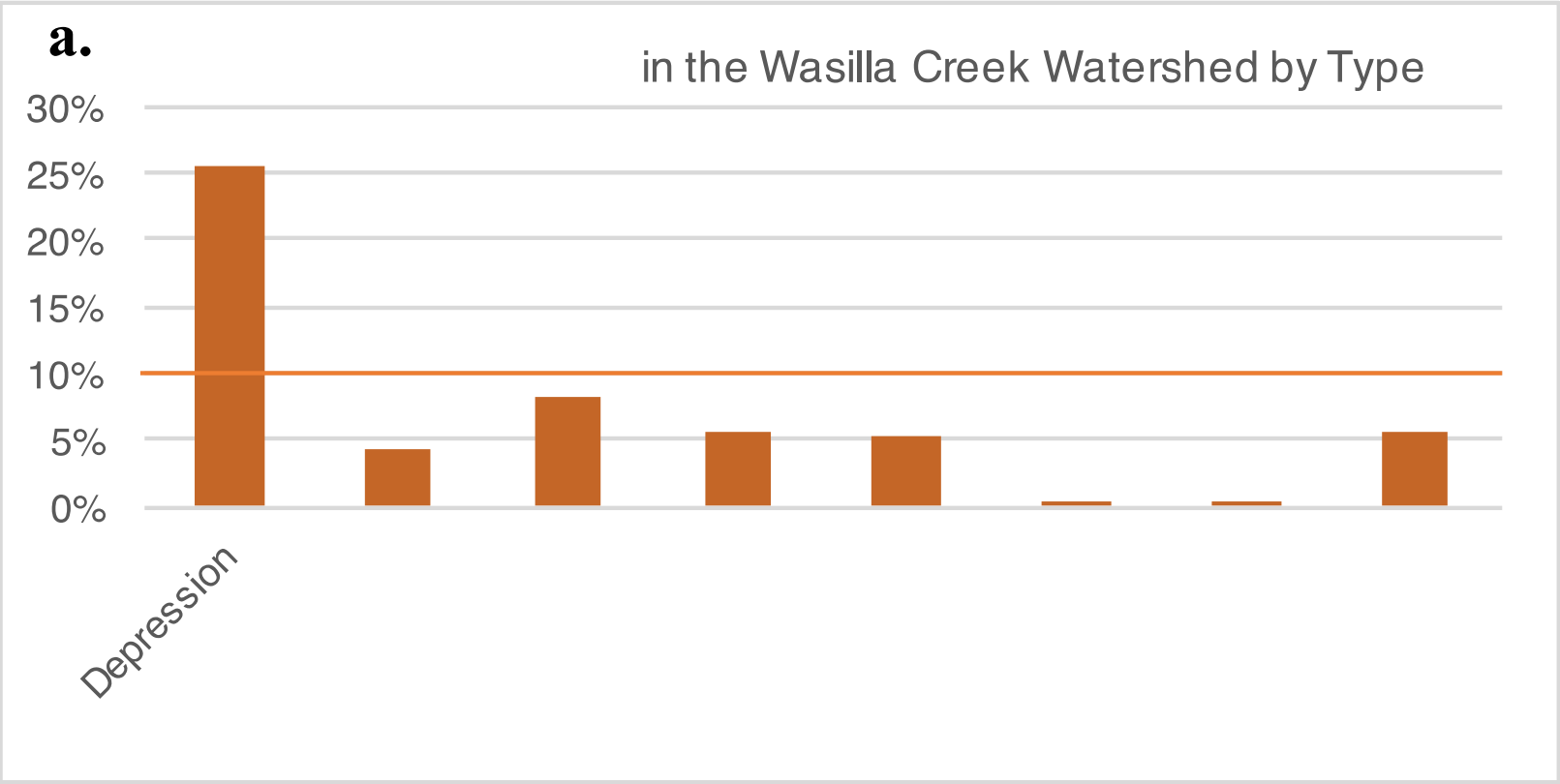


- Cottonwood Creek Watershed
  - Depressions,
  - Discharge Slopes,
  - Kettles, and
  - Wetland/Upland complexes

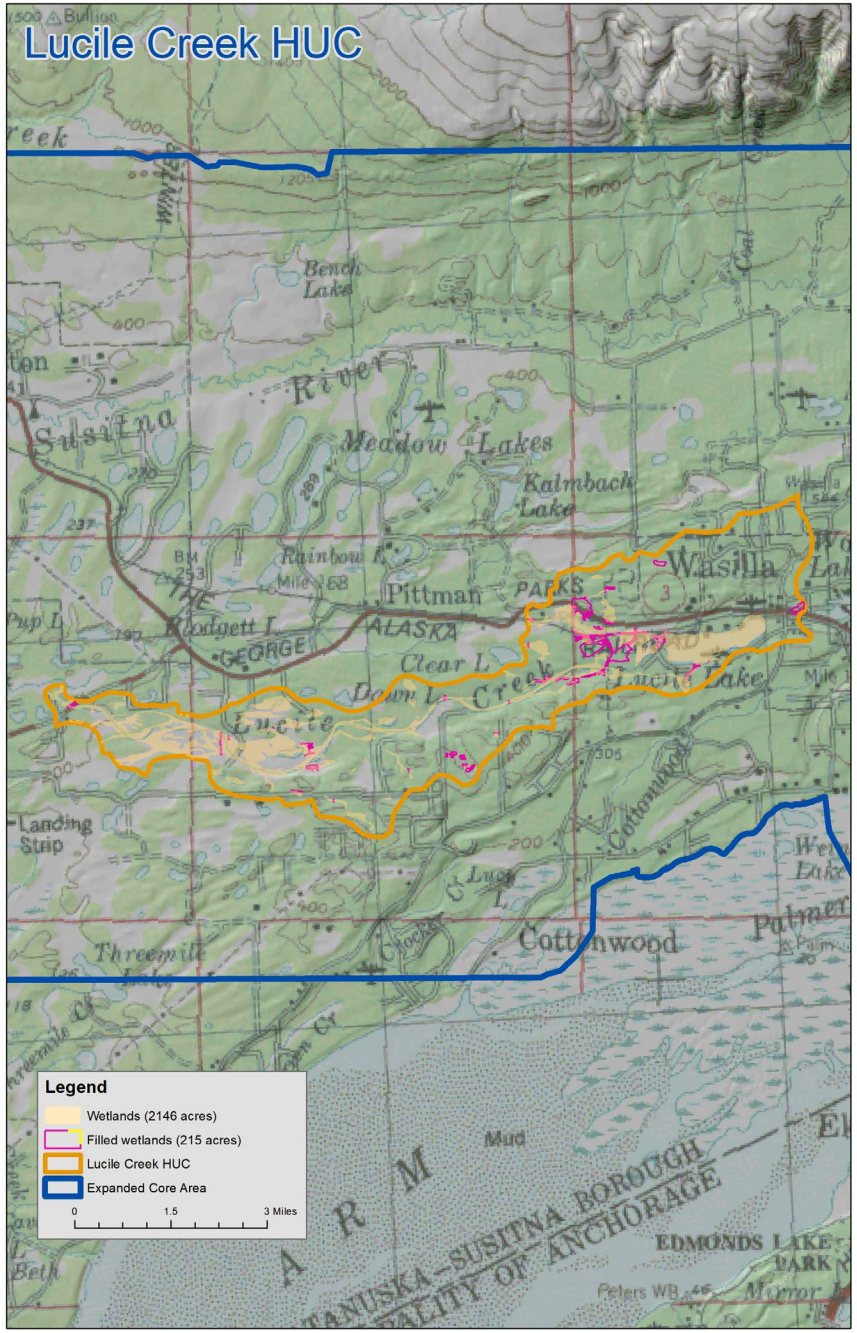

Wasilla Creek HUC
Legend
Filled wetlands (179 acres)
Wetlands (5808 acres)
Wasilla Creek HUC
Expanded Core Area
0
1.5
3 Miles
Palmer
Matanuska
Eklutna
Kennedy L
Wolf L
Hart L
Neklason L
Memory Lake
Kings L
Cottonwood Lake
Wasilla Lake
Four Corners
Black L
Johnson L
Reeve Lake
Fishhook Junction
Lanching Shops
Moose Creek
Eklutna Powerhouse

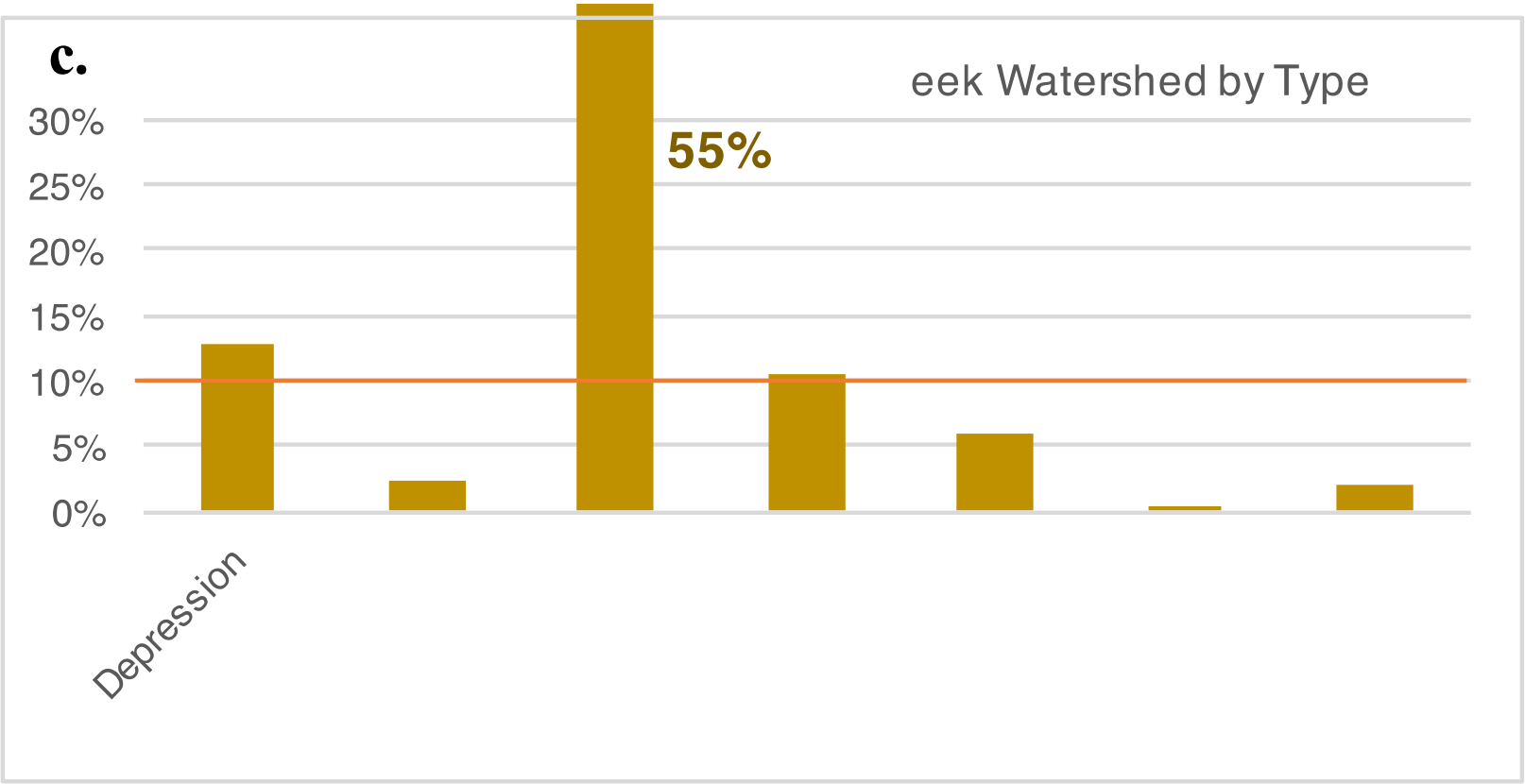

a.
in the Wasilla Creek Watershed by Type
30%
25%
20%
15%
10%
5%
0%
Depression

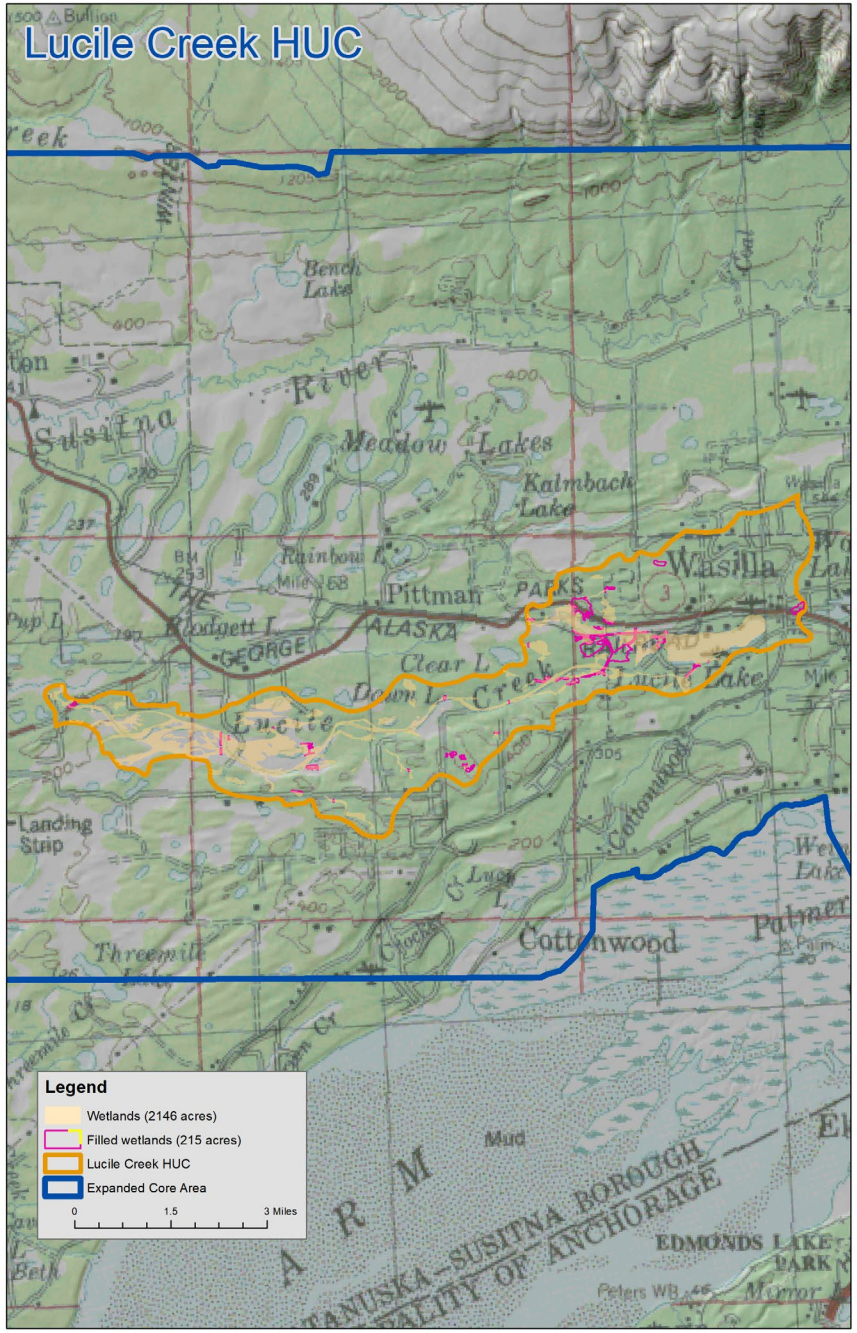


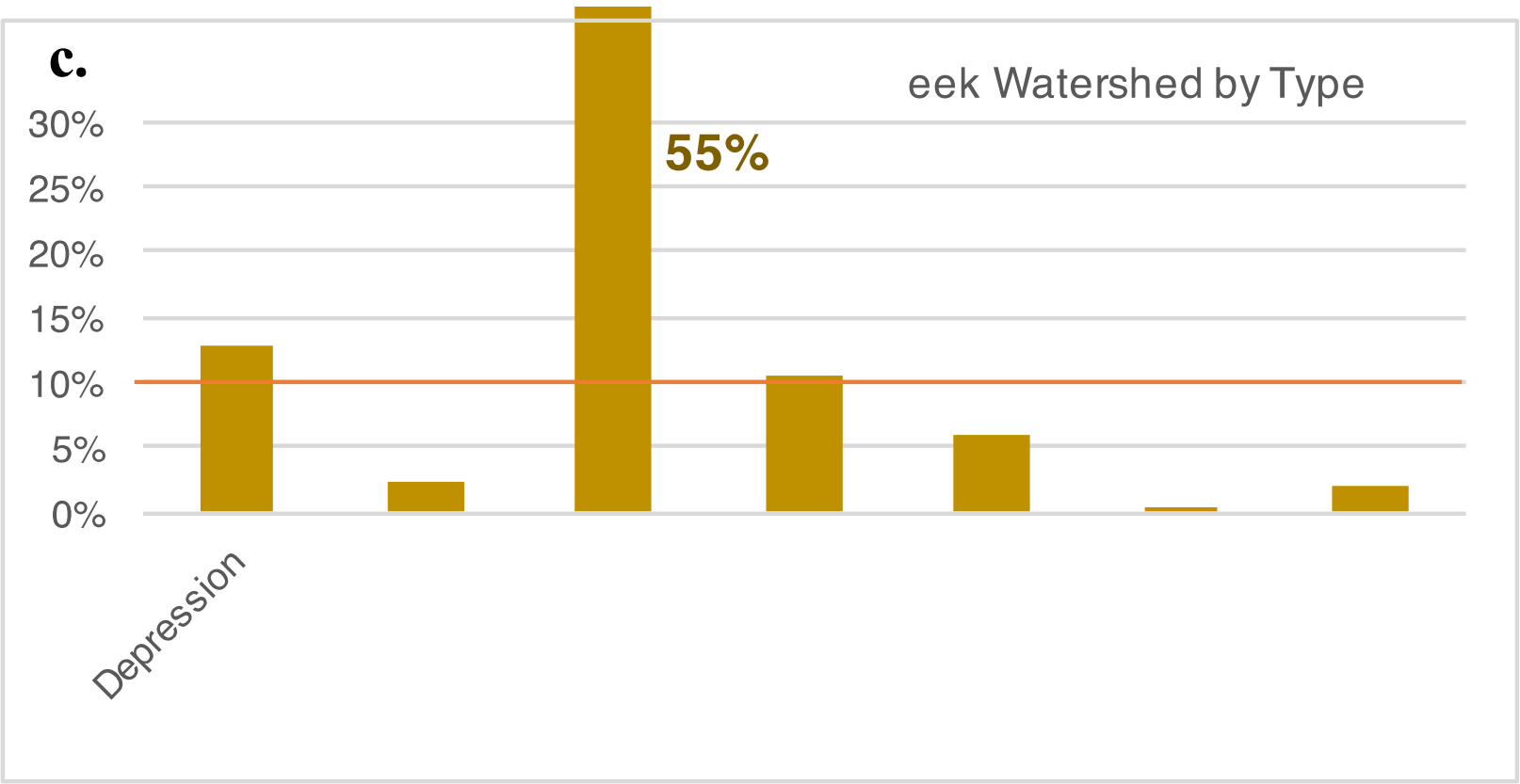


- Wasilla Creek Watershed
  - Depressions,
  - Discharge Slopes,
  - Kettles,
  - Spring Fens,
  - Riverine wetlands

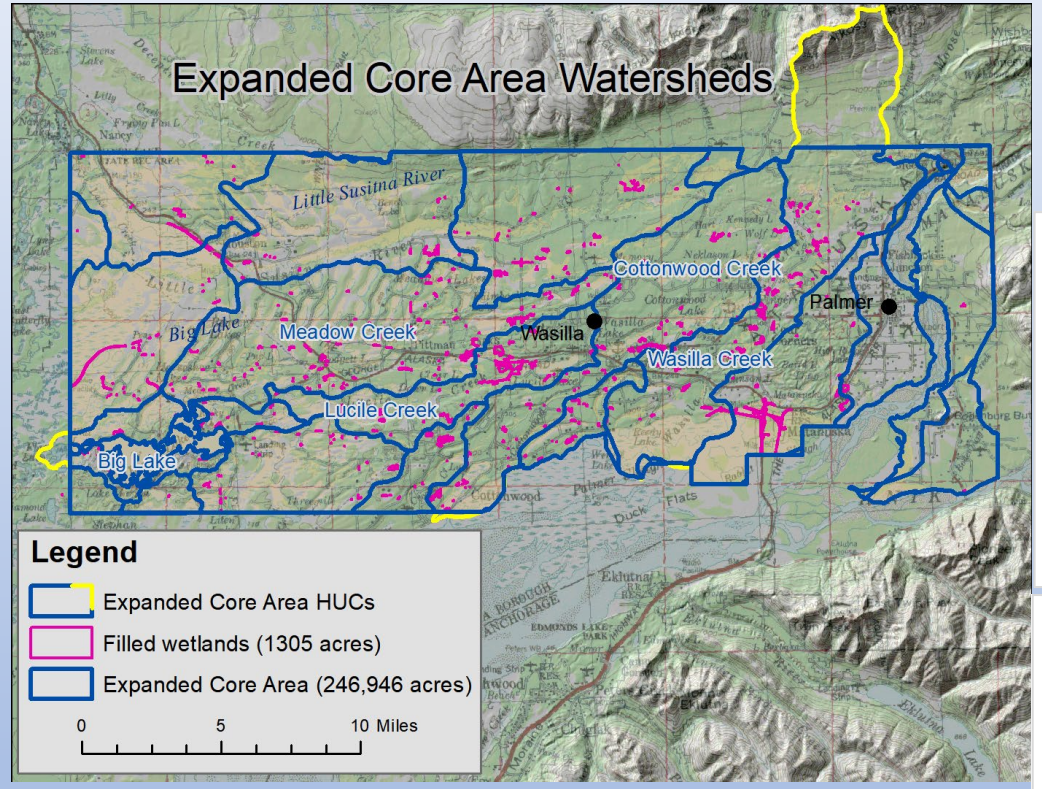

Lucile Creek HUC
Legend
Wetlands (2146 acres)
Filled wetlands (215 acres)
Lucile Creek HUC
Expanded Core Area
0
1.5
3 Miles
Bench Lake
Susitna
River
Meadow Lakes
Kalmbach Lake
Rainbow
Pittman
Wasilla
Rodgett L.
Clear L.
Lucile
Creek
Landing Strip
Cottonwood
Palmer
Threemile Lake
Mud
EDMONDS LAKE PARK
Peters WB
Mirror

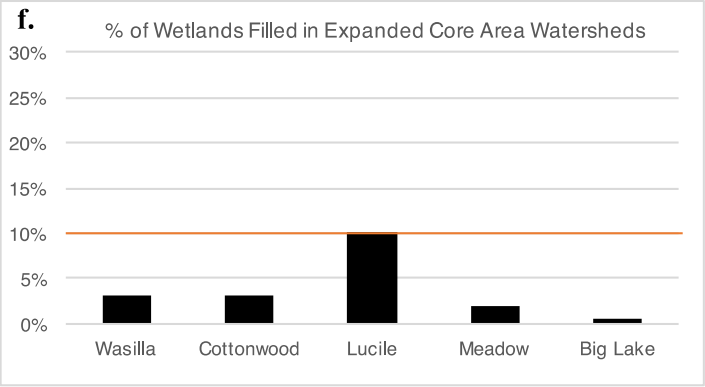

c.
eek Watershed by Type
30%
25%
20%
15%
10%
5%
0%
55%
Depression

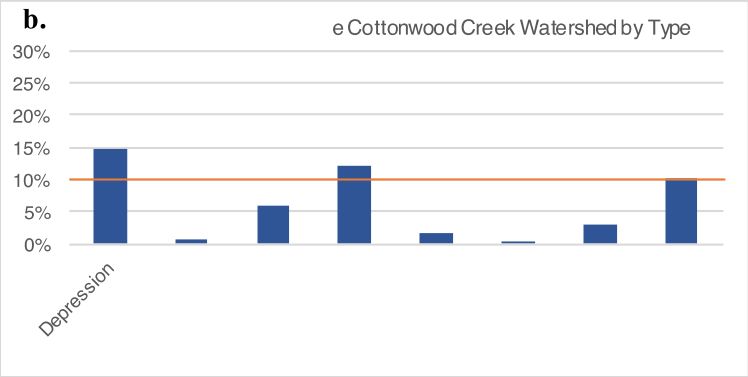


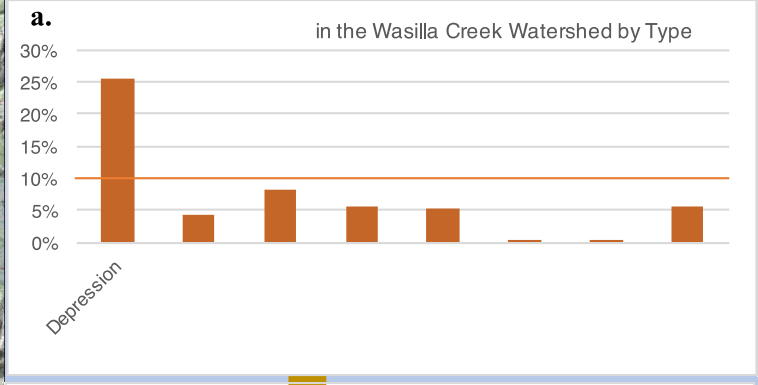


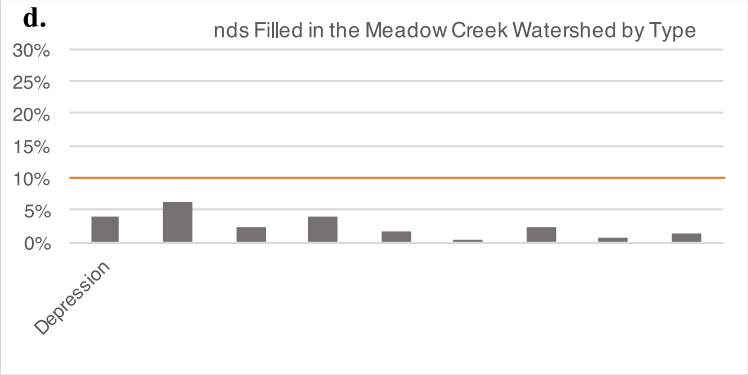
- Lucile Creek Watershed
  - Depressions,
  - Discharge slopes,
  - Kettles, and
  - Spring Fens

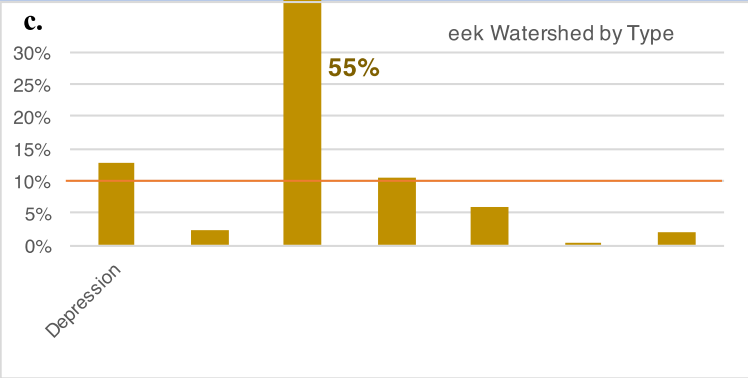

Expanded Core Area Watersheds
Little Susitna River
Cottonwood Creek
Palmer
Wasilla
Meadow Creek
Big Lake
Wasilla Creek
Lucile Creek
Big Lake
Legend
Expanded Core Area HUCs
Filled wetlands (1305 acres)
Expanded Core Area (246,946 acres)
0
5
10 Miles

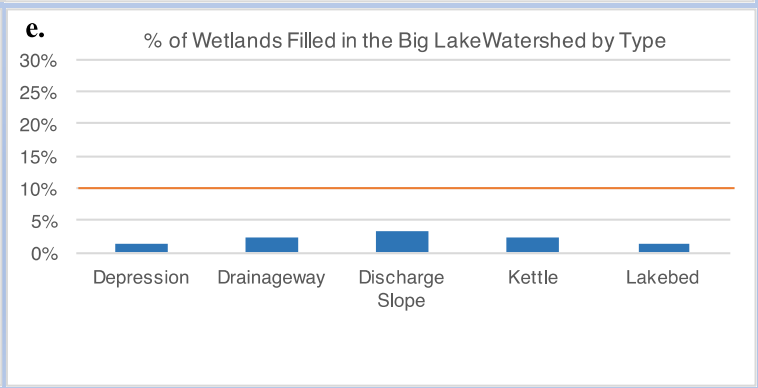

f.
% of Wetlands Filled in Expanded Core Area Watersheds
30%
25%
20%
15%
10%
5%
0%
Wasilla
Cottonwood
Lucile
Meadow
Big Lake


b.
e Cottonwood Creek Watershed by Type
30%
25%
20%
15%
10%
5%
0%
Depression


a.
in the Wasilla Creek Watershed by Type
30%
25%
20%
15%
10%
5%
0%
Depression


d.
nds Filled in the Meadow Creek Watershed by Type
30%
25%
20%
15%
10%
5%
0%
Depression


c.
eek Watershed by Type
55%
30%
25%
20%
15%
10%
5%
0%
Depression


e.
% of Wetlands Filled in the Big LakeWatershed by Type
30%
25%
20%
15%
10%
5%
0%
Depression
Drainageway
Discharge Slope
Kettle
Lakebed

Wetland Loss Assessment by Wetland Type and Watershed in an Expanded Core Area of the Matanuska-Susitna Borough

Mike Gracz
Kenai Watershed Forum
mike@kenaiwatershed.org