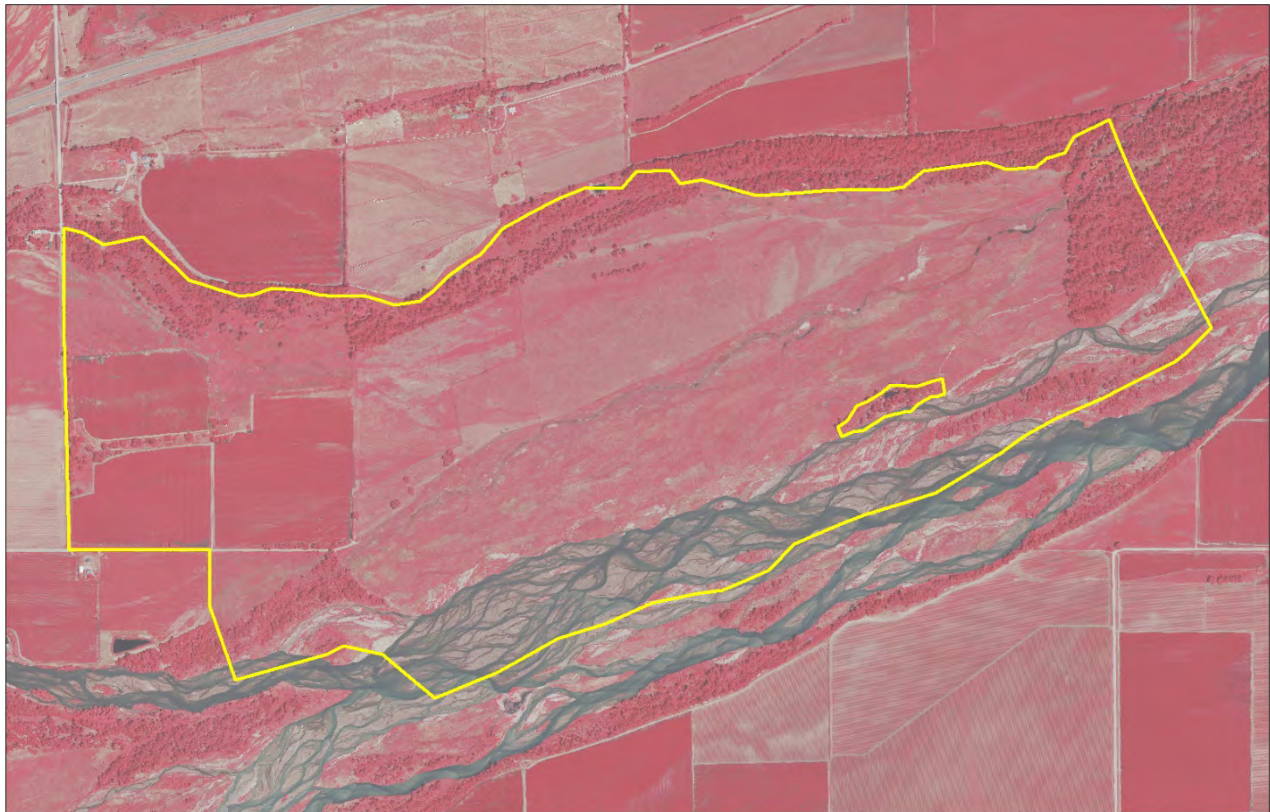




2019-2032 RESTORATION AND MAINTENANCE PLAN

For

TRACT 2018001



Prepared for:
Platte River Recovery Implementation Program
Land Advisory Committee

Completion Date:
??/??/2019



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1. PROPERTY DESCRIPTION AND BACKGROUND

A. Purpose

The purpose of this plan is to outline the restoration, operations and maintenance activities, as well as species habitat and adaptive management research and monitoring activities that will occur on Tract 2018001 (Evaluation Tract Number 1702) during the period of 2020-2032. Species habitat and Adaptive Management research and monitoring actions associated with this tract are addressed in the “Restoration and Management Framework for PRRIP Habitat Complexes- September 2018” because planning and implementation of those activities will primarily occur at a complex scale. Operations and maintenance will primarily occur on a tract scale and as such, this plan addresses those activities within the broader context of complex goals and objectives.

B. Tract Location and Size

Tract 2018001 is approximately 776 acres in size and is located in portions of South ½ Sections 32 and 33, T-9N, R-13W and in portions of the NW ¼ Section 4 and NE ¼ Section 5 T-8N R-13 W. Figure A-1 (located in Appendix A) delineates the property boundary. The tract is in the Gibbon to Shelton bridge segment also referred to as the Clark Island Complex. Figure A-2 shows the parcel location within the Program land acquisition area, bridge segment and its proximity to existing leased and owned conservation lands.

C. Land Interest

A fee simple absolute title is held in trust by the Platte River Recovery Implementation Foundation (PRRIF) on behalf of the Program.

D. Communication and Coordination

The Executive Director’s Office (ED Office) is responsible for communication and coordination with neighboring landowners. Neighbors will not be asked to provide formal comment on annual Work Plans but will be notified and consulted regarding specific restoration or management activities that could impact their properties.

2. RESPONSIBILITIES

A. Management Responsibilities

1. *Planning*

Annual Work Plans for this property are to be written by representatives of the Executive Director’s office with oversight and input from the Program’s Land Advisory Committee (LAC). Program staff will be responsible for conducting, or retaining contractors to conduct, planning, design, and permitting for specific activities carried out under this plan.

2. *Implementation of Management Activities*

Implementation of management activities will be carried out by Program staff or by contractors under the oversight of Program staff.

3. *Enforcement*

Program staff is responsible for establishing controlled access to the property and will notify law enforcement agencies and others of issues as appropriate.

**B. Budget and Invoicing**

Program staff will be responsible for budgeting and invoicing of activities on this property. No later than March 1 of each year during the term, a report showing income and expenditures for the property during the preceding fiscal (same as calendar) year will be completed and presented to the LAC and Governance Committee (GC) for review.

C. Plan Authorization and Modifications

The LAC and TAC will provide comments on this Plan and the LAC will forward a recommendation to the GC. The GC must authorize this Plan before it can be executed. In addition, the LAC and TAC will provide comments on annual Work Plans and the LAC will forward a recommendation on the annual Work Plans to the GC. The GC must approve the annual Work Plans before they can be executed.

It is anticipated that once every five years, the restoration and management plans will go through a major revision process where the goals, objectives, and activities will be reevaluated. Plan updates will be subject to the same comment and approval process as the original Plan.

3. EXISTING HABITATS**A. Complex and Non-Complex Habitat**

The entirety of the Property will be managed as complex habitat. Table 1 provides the total acres of land contributing to a habitat complex. The classifications are based on *Table 1. Target Habitat Complex Guidelines* of the Program's Land Plan. The classification acres in Table 2 are based on existing tract land cover/use. All classifications reflect land cover/use at the time of acquisition and may change based on management and restoration decisions.

Table 1 – Tract 2018001 Complex Habitat Acres Land

Land Classification*	Acres
Wet Meadow	
Grassland	379
Riverine	
Channel	153
Buffer	
Woodland	118
Crop field	126

* Habitat complex land classification categories are more general than the 2005 land cover/use classification and areas may vary due to changes in land use and vegetation since 2005.

1. Associated Complex Habitat

The nearby Audubon Rowe Sanctuary as well as TNC managed habitats can function as associated complex habitats.

B. Land Cover

Existing land cover/use on and adjacent to this Tract was evaluated utilizing the updated 2005 land cover overlay developed in cooperation with the Whooping Crane Maintenance Trust Inc. (Crane Trust) and the United States Fish and Wildlife Service (USFWS). The land cover classifications from the overlay were compared to the most recent United States Department of Agriculture (USDA) Farm Service Agency (FSA) and Program aerial photography in order to identify any land use changes that have occurred since the development of that dataset. The 2005 land cover/use for this Tract is summarized in Table 1. Several



additional land cover/use related maps are located in Appendix A including:

- Figure A-3 – 2005 Land Cover/Use
- Figure A-4 – National Wetland Inventory
- Figure A-5 – 1938 Aerial Photography
- Figure A-6 – 1998 CIR Aerial Photography
- Figure A-7 – 2019 CIR Aerial Photography
- Figure A-8 – Complex Habitat
- Figure A-9 – Riverine Activities
- Figure A-10 – Grassland Activities
- Figure A-11 – Grazing Units
- Figure A-12 – Cropland Units

Table 2 – Tract 2018001 2005 Land Cover/Use Summary

Land Cover Classification	Acres	Percent of Total
Ag	129.62	16.70%
Bare ground/Sparse Veg	0.74	0.09%
Mesic Wet Meadow	66.82	8.61%
Phragmites	29.75	3.83%
Riparian Shrubland	91.33	11.77%
Riparian Woodland	236.90	30.52%
River Channel	34.91	4.50%
River Early Successional	11.75	1.51%
River Shrubland	58.51	7.54%
Roads	6.94	0.89%
Rural Developed	9.92	1.28%
Unvegetated Sandbar	2.75	0.35%
Upland Woodland	1.63	0.21%
Xeric Wet Meadow	94.56	12.18%
	776.14	100.00%

C. Existing Land Features of Interest

1. Non-Riverine Surface Water

The western portion of the property contains no non-riverine surface water. On the northern boundary there is a narrow, heavily wooded channel that was been block downstream and rarely carries water. In the middle of the tract, along the historic high bank of the accretion ground, there is a backwater slough that is wet at most times.

2. River Frontage and Active Channel Widths

The tract contains approximately 10,451feet of Platte River frontage on the main channel and 12,000 feet of river frontage on the north channel. The north channel in this reach is narrow and



vegetated and would not be considered for extensive habitat restoration. Channel width measurement protocols define active channel width as the width of the channel that is unvegetated. Channel widths were measured at ¼ mile intervals utilizing color infrared aerial photography flown in June 2010 under high flow conditions. Measured main channel widths are presented in Table 3.

Table 3– Tract 2018001 Channel Widths

Measurement	Width (ft)
Minimum Channel Width	189
Maximum Channel Width	1,461
Median Channel Width	339
Mean Channel Width	655

3. *Contiguous Sand Substrates*

At the time of the review, and as evidenced by current aerial photography, Tract 2018001 contains no substantial areas of contiguous sand substrate.

4. *Island and Channel Bank Height*

Under typical flow conditions, island and bank heights are on the order of 0-4 feet above water.

5. *Groundwater*

The west part of the tract is between two river channels and assumed to be tied very closely to the river level. Water levels on the eastern part of the tract indicate a ground water level of 3-6 feet below the surface.

6. *Flooding in Non-Wetland Areas*

There is no evidence of temporary inundation of non-wetland areas.

7. *Power/Transmission Lines*

There is an above ground power line that services the irrigation well and metal building approximately ¼ mile west from the county road on the western boundary. This line is within a forested area. There is also a power line running along the west side of the county road on the west side of the tract. This power line is not expected to impact target species use in this area.

D. *Incompatible Uses and Environmental Concerns*

Tract 2018001 does include a privately owned 5-acre inholding located along the riverbank. The use of the inholding by friends and family is for recreation, including deer and waterfowl hunting which could have a negative effect on WC use during migration periods.

E. *Certified Irrigated Acres*

Tract 2018001 includes 123.68 NRD certified irrigated acres.



4. RESTORATION AND MAINTENANCE

A. Goals and Objectives

Goals and objectives will function as the benchmark for evaluation of ongoing land-related actions. Implementation of Program actions to address goals and objectives will be accomplished at both complex and tract-level scales.

1. *Species Habitat*

- **Goal 1** – Improve sand and water (riverine) habitat for interior least terns (LETE), piping plovers (PIPL), and whooping cranes (WC).
 - **Objective 1a** – Create and maintain riverine sand and water habitat for target bird species as specified in the “Restoration & Management Framework for PRRIP Habitat Complexes.”
 - **Strategy** – Clear all woody vegetation on islands on Tract 2018001. Clear and lower islands within this area and develop LETS and PIPL MCA habitat. Maintain area with herbicide control and disking.
 - **Methods** – Methods to be determined during project design. The area will be cleared using heavy equipment. Cleared material will be burned and buried on site if possible. Conditions may require other removal methods including chipping and hauling off-site.
 - **Area** – Approximate area for tree clearing and in-channel disking is identified on Figure A-9 – 154 acres (131 acres in-channel disking area, 23 acres tree clearing area).
 - **Timeline** – Project planning will take place in 2020. Clearing, island construction/leveling will take place in late 2020/early 2021.
 - **Costs** – The clearing is expected to cost on the order of \$75,000. Subject to flows and access to island, methods and schedule may be adjusted.
 - **Responsibilities** – Program staff are responsible for design and permitting. Construction and maintenance activities will be bid.
- **Goal 2** – *Improve wet meadow/grassland habitat for WC and other species of concern.*
 - **Objective 2a** – Create and maintain wet meadow/grassland as specified in the “Restoration & Management Framework for PRRIP Habitat Complexes.”
 - **Strategy** – Clear woody vegetation from wet meadow and cropland areas. All existing and created tree piles will be burned & buried or ground with a horizontal grinder and recycled and reseeded with a local-ecotype seed mix.
 - **Area** – Areas are identified on Figure A-10.



- **Timeline** – Removal of downed timber and tree piles will take place in 2021.
- **Cost** – Woody vegetation removal costs on the order of \$40,000-60,000.
- **Responsibilities** – Design and oversight by Program staff. Construction activities will be bid.
- **Objective 2b** – Manage existing grasslands in varying degrees of vegetative stature as of March 1 in any given year to provide habitat for whooping cranes and species of concern (sandhill cranes and grassland nesting birds) as specified in the “Restoration & Management Framework for PRRIP Habitat Complexes.”.
 - **Strategy** – Use a combination of livestock grazing, haying, mowing, and prescribed fire to provide a diverse mixture of vegetative structure and species composition as of March 1 in all years. This will include short structure for crane use on approximately 1/4 of total grassland area of Tract 2018001 and the remaining 3/4 of the total grassland area in taller standing dead vegetation for certain grassland nesting birds.
 - **Methods** – Grazing in combination with prescribed fire will be used to manage existing grasslands. Grazing will typically be for a 5-month grazing period (May 1-October 1) each year at a moderate stocking rate. Typical stocking rate will be 1 animal unit (one cow/calf pair or its equivalent in yearling cattle) per 5.5 acres. Each management unit will be evaluated annually and adjustments in stocking rate and timing will be made accordingly. Prescribed fire will be planned to suppress cool season, invasive vegetation under appropriate environmental conditions and fuel loading and conducted during late March to Mid-May. Prescribed fire will be implemented on each management unit on a 4-year return interval or across the entire unit within a patch- burn rotation.
 - **Area** – Grazing areas are presented on Figure A-11.
 - **Timeline** – Annually.
 - **Costs** – Prescribed fire cost is \$50-60/ acre and estimated income from grazing is \$13,150 for 66 pair grazing for 5 months at a cost of \$199/pair.
 - **Responsibilities** – Program staff in coordination with the appropriate Program committees will be responsible for planning, design and permitting. Contractors, hired by the Program, will perform the construction and maintenance work. Contractors, hired by the Program, will perform the prescribed burn.
- **Goal 3 – Provide benefits to other species of concern without compromising ability to accomplish target species goals and objectives**
 - **Objective 3a** – Evaluate habitat protection for other species of concern as need or opportunity is brought forward by USFWS or NGPC.
 - **Strategy** – The Program will utilize the tract management planning and consultation process as the mechanism for identification of opportunities to benefit other species of concern. Following acquisition of a parcel, the Program requests that the USFWS and NGPC provide guidance on species of concern that may be present and benefit from



management measures. The Program will survey all tracts to determine presence of those species. The Program will then consult with the USFWS and NGPC to determine appropriate measures for protecting, preserving and enhancing populations of those species while accomplishing Program goals.

- **Responsibilities** – Program staff are responsible for initiating coordination. USFWS and NGPC are responsible for bringing forward species of concern that need to be addressed in the planning process. Program staff will be responsible for habitat protection planning, with technical assistance from these agencies.

2. *Property Maintenance*

➤ *Goal 4– Fulfill basic property ownership obligations and needs.*

- **Objective 4a** – Rehabilitate and maintain property boundary fencing and signage.
 - **Strategy** – The existing fence is in average to good condition (35,022 LF or 6.6 miles). The overall strategy will be to clear woody vegetation as necessary for access and fence reconstruction and rebuilding or replacing the boundary fence (with signage) as necessary. Fence maintenance strategy will be a combination of minimizing maintenance needs and scheduled maintenance.
 - **Methods** – Where necessary, trees will be cleared using heavy equipment. They will be stacked into piles and burned and buried. Boundary fencing will be four wire livestock fencing and will be constructed per Natural Resources Conservation Service (NRCS) design criteria. The fence will include Program ownership and contact signage at regular intervals. Maintenance methods may include mowing or spraying of woody species in the cleared area as well as routine fence upkeep.
 - **Area** –Segments of fence are displayed on Figure A-11.
 - **Timeline** – Fence reconstruction and associated vegetation removal will begin when necessary
 - **Costs** –Annual maintenance costs are expected to be on the order of \$2,000. New fence construction is expected to be \$2.50 per linear foot and \$0.30 per linear foot for removal.
 - **Responsibilities** – Program staff are responsible for design and permitting. Construction and maintenance activities will be bid.
- **Objective 4b** – Rehabilitate and maintain livestock watering infrastructure.
 - **Strategy** – The existing livestock watering system consists of 3 wells with tanks and 1 solar pump that can be moved from one well to another for water distribution. The overall strategy will be to perform an inspection of the existing facilities and replace as necessary. Livestock watering infrastructure maintenance strategy will be to schedule maintenance inspections annually.
 - **Methods** –N/A



- **Area** –Livestock watering infrastructures are displayed on Figure A-11.
- **Timeline** –Early spring.
- **Costs** –Annual maintenance costs are expected to be on the order of \$1,000.
- **Responsibilities** – Program staff are responsible for design and permitting. Construction and maintenance activities will be bid.
- **Objective 4c** – Control noxious weeds on property.
 - **Strategy** – Infestations of noxious weeds will be eliminated (to the extent possible) annually as specified in the “Restoration & Management Framework for PRRIP Habitat Complexes.”. An integrated management approach to control noxious weeds will be used to the extent possible and specific control methods will be updated as new information becomes available. Ongoing management/control needs will be assessed annually and incorporated into Work Plans.
 - **Methods** – Herbicide application will be the primary method for control of noxious weeds. Biological controls will be considered but only used if deemed effective enough to result in effective control within three growing seasons.
 - **Area** – Noxious weeds will be controlled on the entire property.
 - **Timeline** – Control efforts will be undertaken annually.
 - **Costs** – Annual costs are expected to be less than \$10,000.
 - **Responsibilities** – Program Staff are responsible for identifying infestations and planning/coordinating control efforts. Control activities will be carried out by contractors. The contractor will typically be the county weed authority.
- **Goal 5 – Minimize habitat impacts due to invasive vegetation.**
 - **Objective 5a** – Eliminate existing and control future infestations of invasive vegetation not listed as noxious weeds as specified in the “Restoration & Management Framework for PRRIP Habitat Complexes.”.
 - **Strategy** – Existing stands of invasive vegetation will be eliminated (to the extent possible) in phases. An integrated management approach to control will be used to the extent possible and specific control methods will be updated as new information becomes available. Ongoing management/control needs will be assessed annually and incorporated into Work Plans.
 - **Methods** – Elimination of existing infestations will be accomplished through a combination of herbicide application and mechanical removal. Control of certain species like eastern red cedar will not require herbicide while other species may need to be mechanically removed after herbicide application. Management of future



infestations will be accomplished through a variety of integrated management methods including herbicide application, prescribed fire, mechanical disturbance/removal and grazing.

- **Area** – Invasive vegetation will be controlled on the entire property.
- **Timeline** – Control efforts will begin after July 15, 2018 and maintenance/control efforts will continue annually.
- **Costs** – Annual costs will be identified in the annual Work Plans as needed and are expected to be less than \$5,000.
- **Responsibilities** – Program staff will be responsible for identifying infestations. Control activities will be carried out by contractors.

3. *Agricultural Operations*

➤ *Goal 6 – Manage cropland responsibly.*

- **Objective 6a** – Coordinate with renter to ensure that crop rotation, tillage practices and nutrient/pest management are being conducted in accordance with current agricultural best management practices (BMPs) as specified in the “Restoration & Management Framework for PRRIP Habitat Complexes.”
- **Strategy** – The Program will make entry into a rental agreement subject to agreement to coordination and approval of the above-mentioned items. The Program will employ standard crop management BMPs like annual soil nutrient testing to ensure that objectives are being met.
- **Methods** – Methods will be determined annually by Program staff and/or farm management contractors in association with the renter.
- **Area** – All cropland areas. Figure A-12 shows irrigated and dryland cropland.
- **Timeline** – Annual.
- **Costs** – Cropland management activities are expected to cost on the order of \$500 annually. Estimated income is \$23,210.
- **Responsibilities** – Program staff or a farm management contractor acting on behalf of the Program will be responsible for annual planning and coordination.

4. *Land Asset Management*

➤ *Goal 7 – Dispose of Excess Acres*

- **Objective 7a** – Dispose of part of tract 2018001 identified as excess through practical means.



- **Strategy** – ED staff will work with committees to identify area determined to be excess. Options will be explored for the Program to divest of their interest in the specified parcel.
- **Methods** – Once a final area is identified, ED staff will explore practical options for divesting of the excess acres. These options may include, but are not limited to, trade for additional Program land or fee title sale with conservation easement. All transactions are subject to GC approval.
- **Area** – All cropland areas. Figure A-12 shows irrigated and dryland cropland.
- **Timeline** – Area will be determined and finalized in 2020. Divestment of identified area should occur before January 2022.
- **Costs** – Costs will depend on method of divestment, but transaction is likely to result in a net income situation.
- **Responsibilities** – Program staff will work with committees to identify excess acres. Program staff will pursue opportunities to divest of the parcel subject to GC approval.

5. TRACT-LEVEL SURVEYS, MONITORING AND RESEARCH

A. Baseline Surveys and Monitoring

1. *Bald Eagle*

Active bald eagle nest has been identified located at the northeast corner of the tract. Management in the area of the nest will take place according to the guidelines in the Elm Creek Complex Plan.

2. *Platte River Caddisfly*

Surveys for Platte River caddisfly will be conducted on this tract to identify potential habitat areas and populations. If populations are present where management actions may cause negative impacts, the Program will coordinate with USFWS and NGPC to determine appropriate methods of avoidance or mitigation.

3. *Northern River Otter*

No otters have been observed on this tract, but they have been known to use the general area. Surveys will be conducted prior to commencement of activities that may negatively impact natal dens when undertaken during the period when otters are utilizing dens (February 15 – June 15).

4. *Northern Long-ear Bat*

No long-ear bats have been observed on this tract, but they have been known to use the general area. The Program will not remove trees between 1 June and 31 July to avoid impacts to northern long-ear bats during the summer and will coordinate with USFWS and NGPC if the species is found on Program properties.



5. Cultural Resources

The legal description of Tract 2018001 will be provided to the State Historic Preservation Office (SHPO) to facilitate the early identification of potential cultural resources related issues. If Program actions uncover potential artifacts or human remains, work will cease until such time that the Program can consult with SHPO to determine the appropriate course of action.

B. Research

No tract-level research activities have been identified at this time.

6. PUBLIC ACCESS

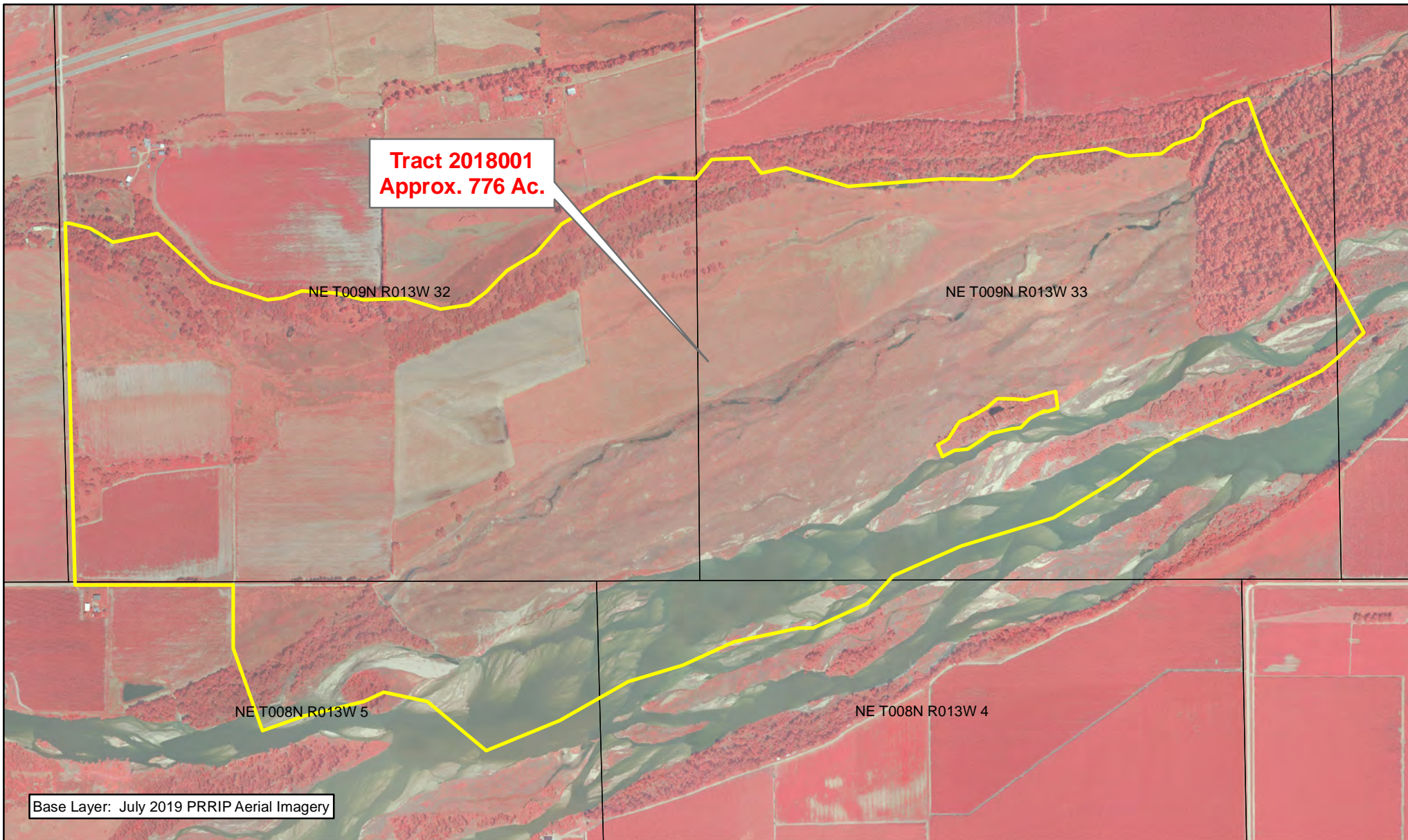
A. Education

Access for education, including non-Program research, will be allowed on a case-by-case basis if it is compatible with target species usage and does not negatively impact species habitat. Program staff will be responsible for evaluating requests and granting access permission.



B. Recreation

This tract has been entered into the Program's public access policy and is available for public use subject to the restrictions in the policy. Public access may be revisited as needed if there are any issues that need to be addressed.

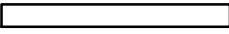
7. APPENDIX A – FIGURES



Legend

-  Conservation_Lands
-  Section

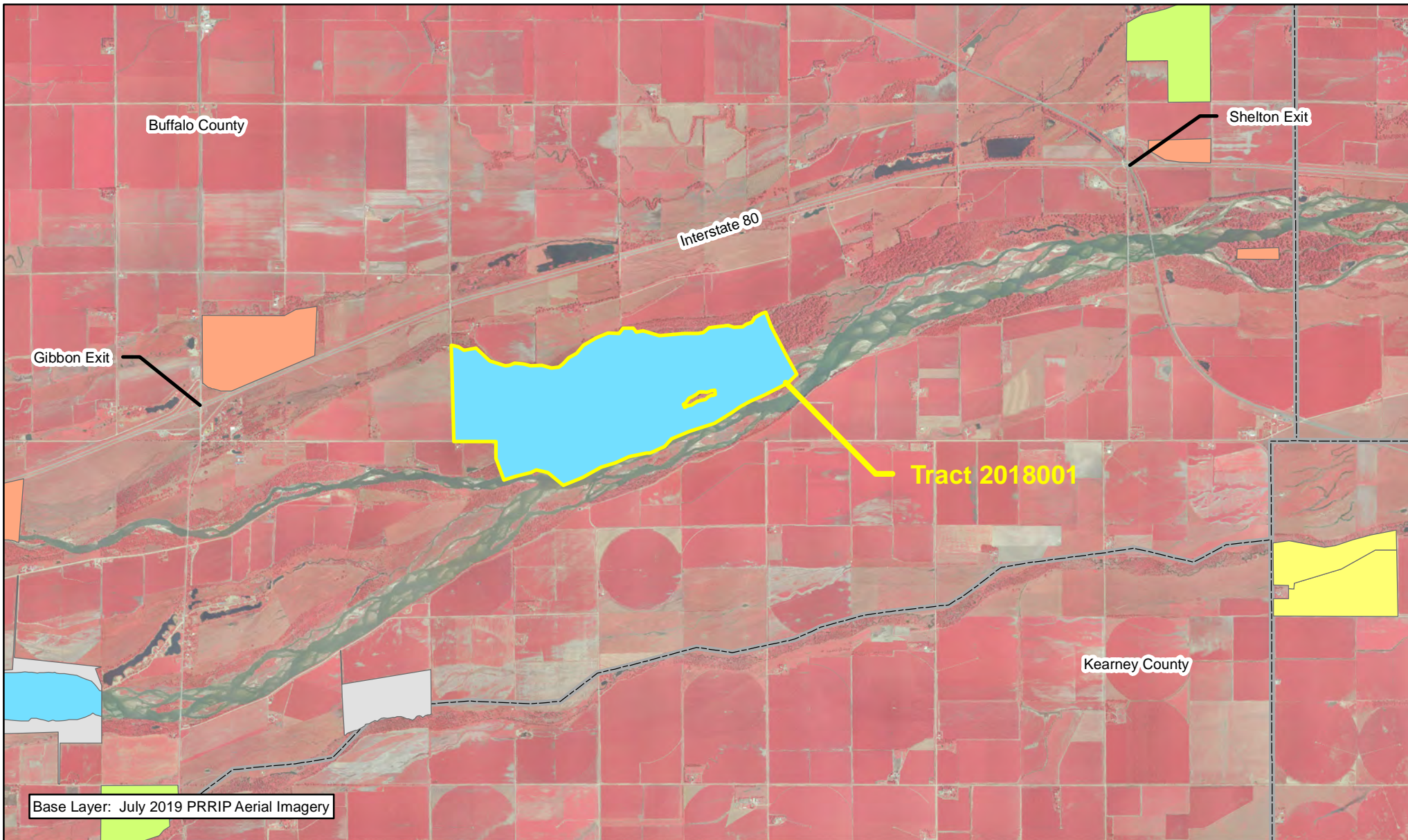


 Miles
0.25

TRACT 2018001 BOUNDARY MAP

Date: 10/2/19
By: TRT

Figure A-1



Legend

PRRIPTractNum

- 2018001
- nebraska_counties_14

- | | |
|--|--|
| Audubon | PRRIP |
| CNPPID | PRWCT |
| NGPC | TNC |
| NPPD | Wyoming |

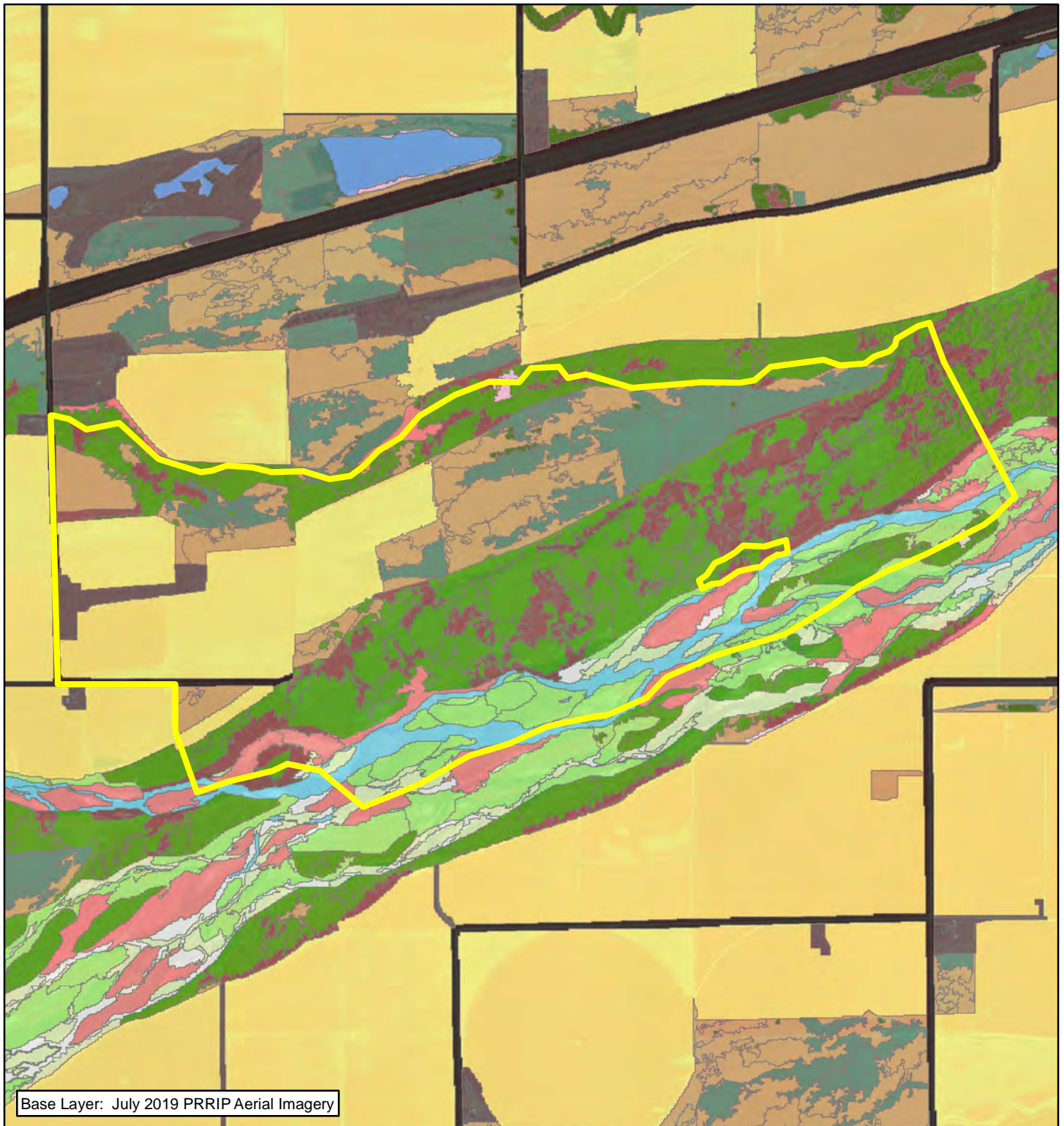


Miles
1

TRACT 2018001 LOCATION MAP

Date: 10/2/19
By: TRT

Figure A-2



Legend

PRRIPTractNum

2018001

Ag

Bareground/Sparse Veg

Canal/Drainage

Mesic Wet Meadow

Phragmites

Riparian Shrubland

Riparian Woodland

River Channel

River Early Successional

River Shrubland

Roads

Rural Developed

Sand Pit

Unvegetated Sandbar

Upland Woodland

Urban/Suburban

Warmwater Slough

Xeric Wet Meadow



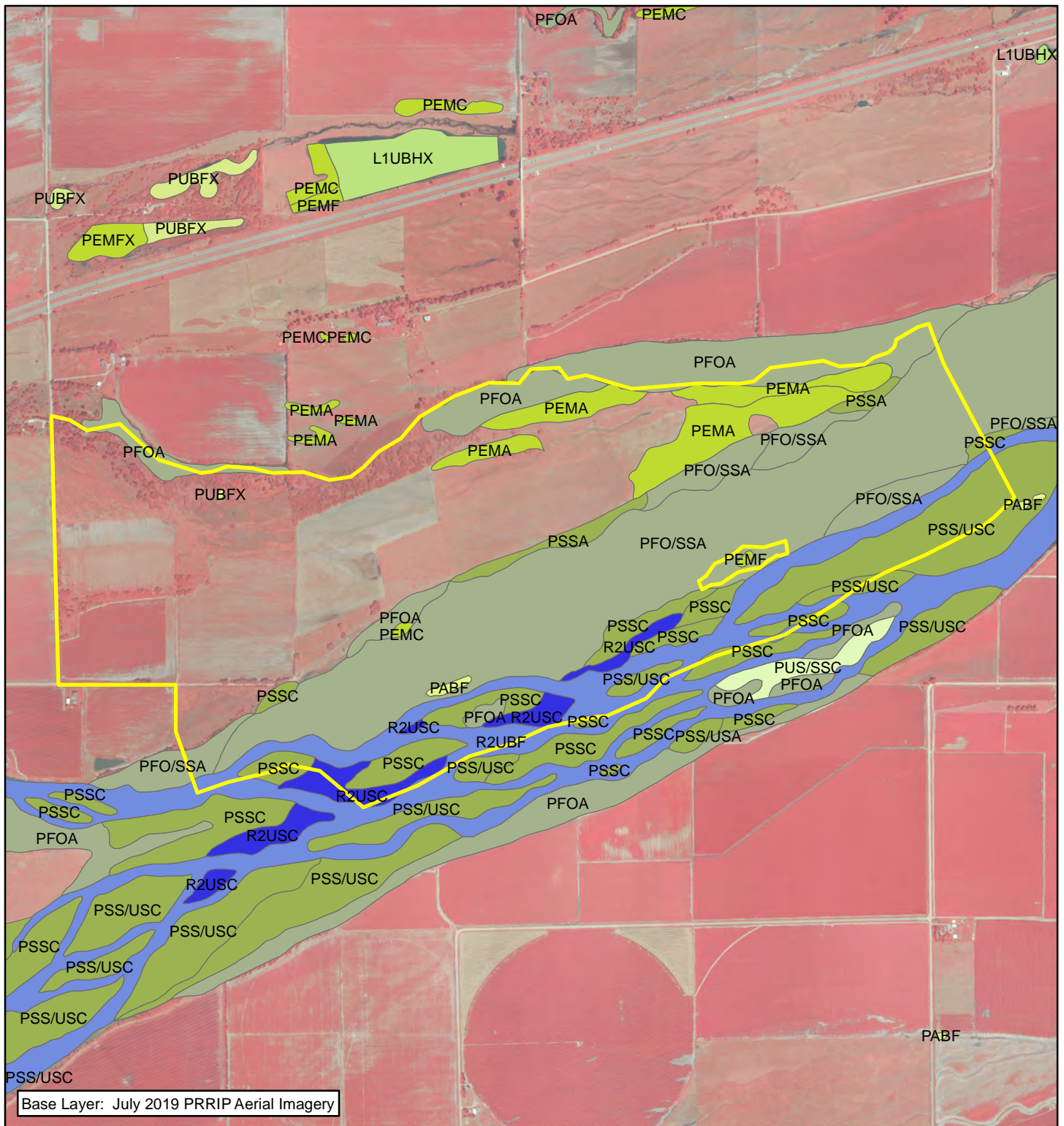
0.25 Miles

TRACT 2018001
2005 LAND COVER/USE

Date: 10/2/19

By: TRT

Figure A-3



Legend

PRRIPTractNum

- 2018001
- Lacustrine Unconsolidated Bottom (LUB)
- Palustrine Aquatic Bed (PAB)
- Palustrine Emergent (PE)
- Palustrine Forested (PF)
- Palustrine Scrub-Shrub (PSS)
- Palustrine Unconsolidated Bottom Excavated (PUBx)
- Palustrine Unconsolidated Shore
- Riverine Unconsolidated Bottom (RUB)
- Riverine Unconsolidated Shore (RUS)
- Riverine Streambed (RS)

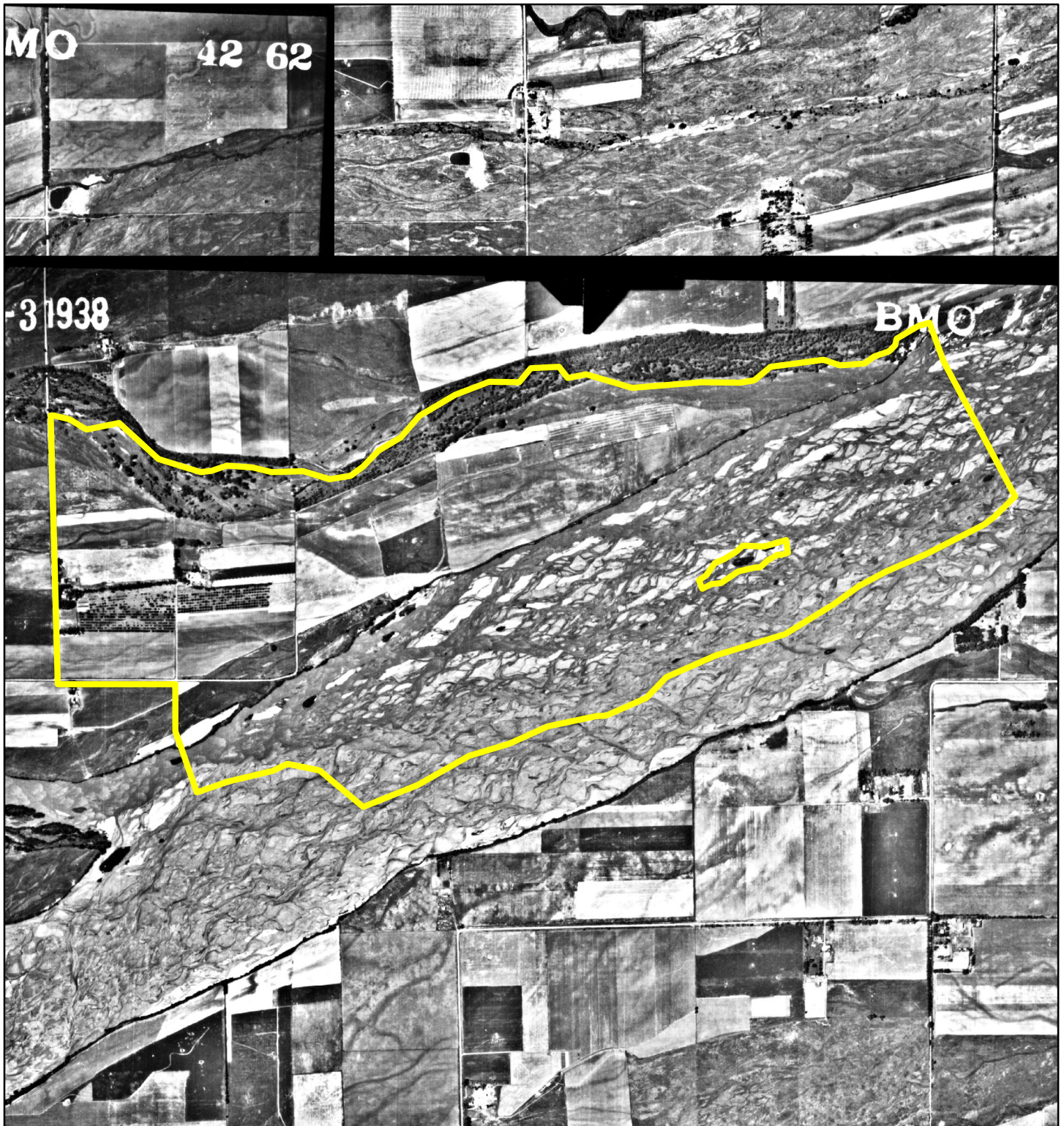


Miles
0.25

TRACT 2018001 NWI MAP

Date: 10/2/19
By: TRT

Figure A-4



Legend
 PRRIPTractNum
 2018001

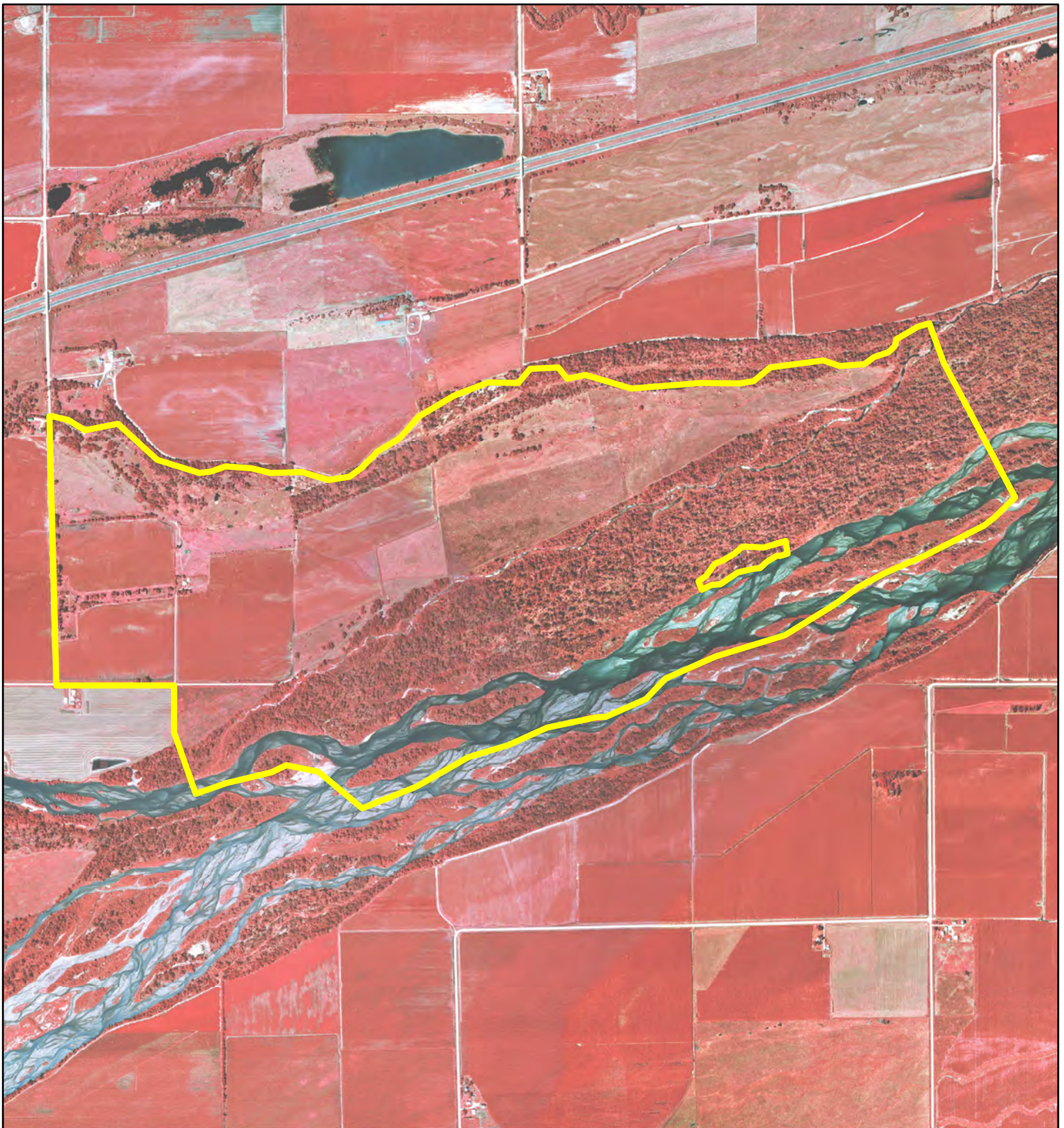



0.25 Miles

TRACT 2018001
 1938 IMAGERY


Date: 10/2/19
 By: TRT

Figure A-5



Legend
PRRIPTractNum
 2018001

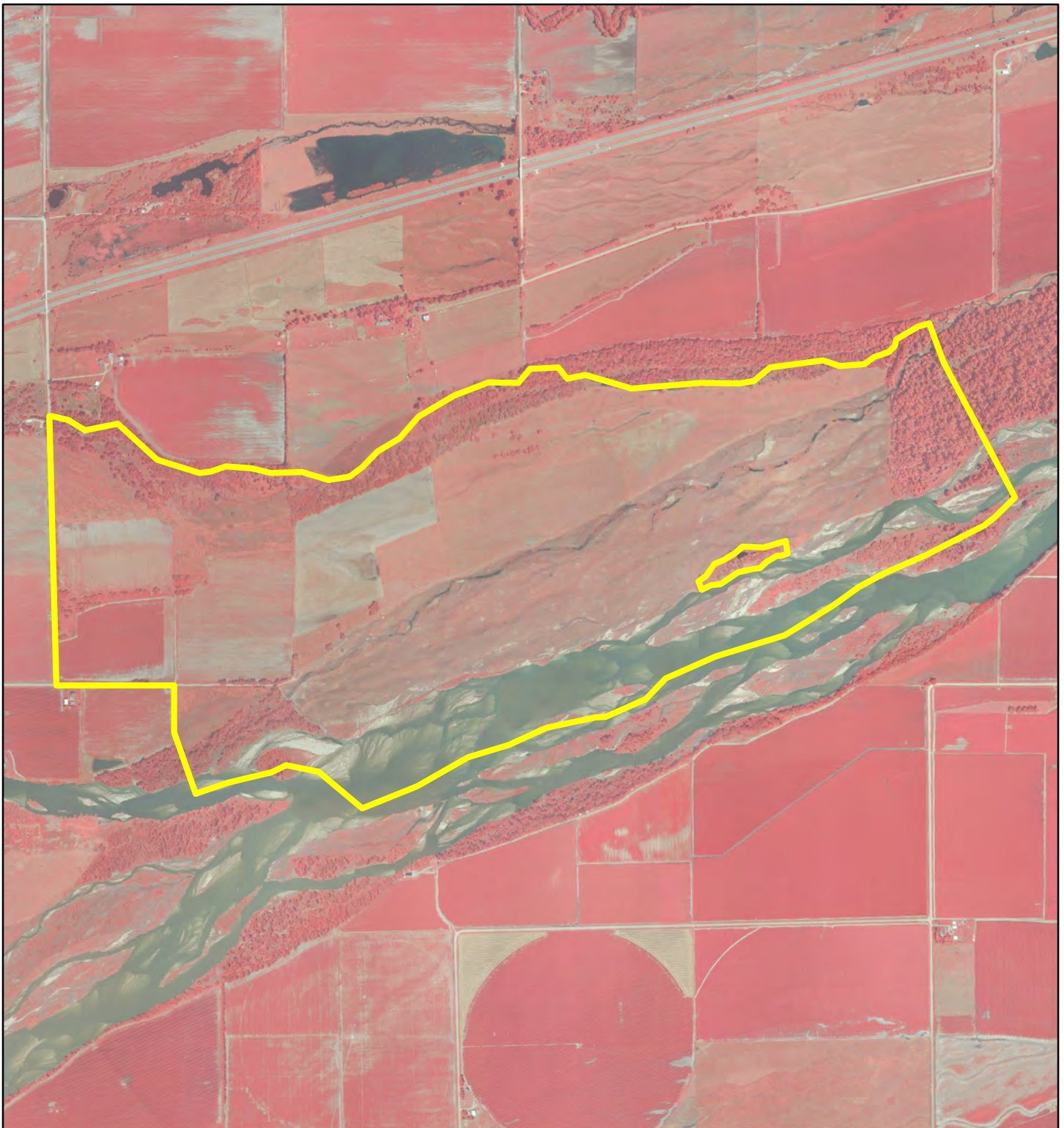



 Miles
0.25

TRACT 2018001
1998 CIR IMAGERY


Date: 10/2/19
By: TRT

Figure A-6



Legend
PRRIPTractNum
 2018001

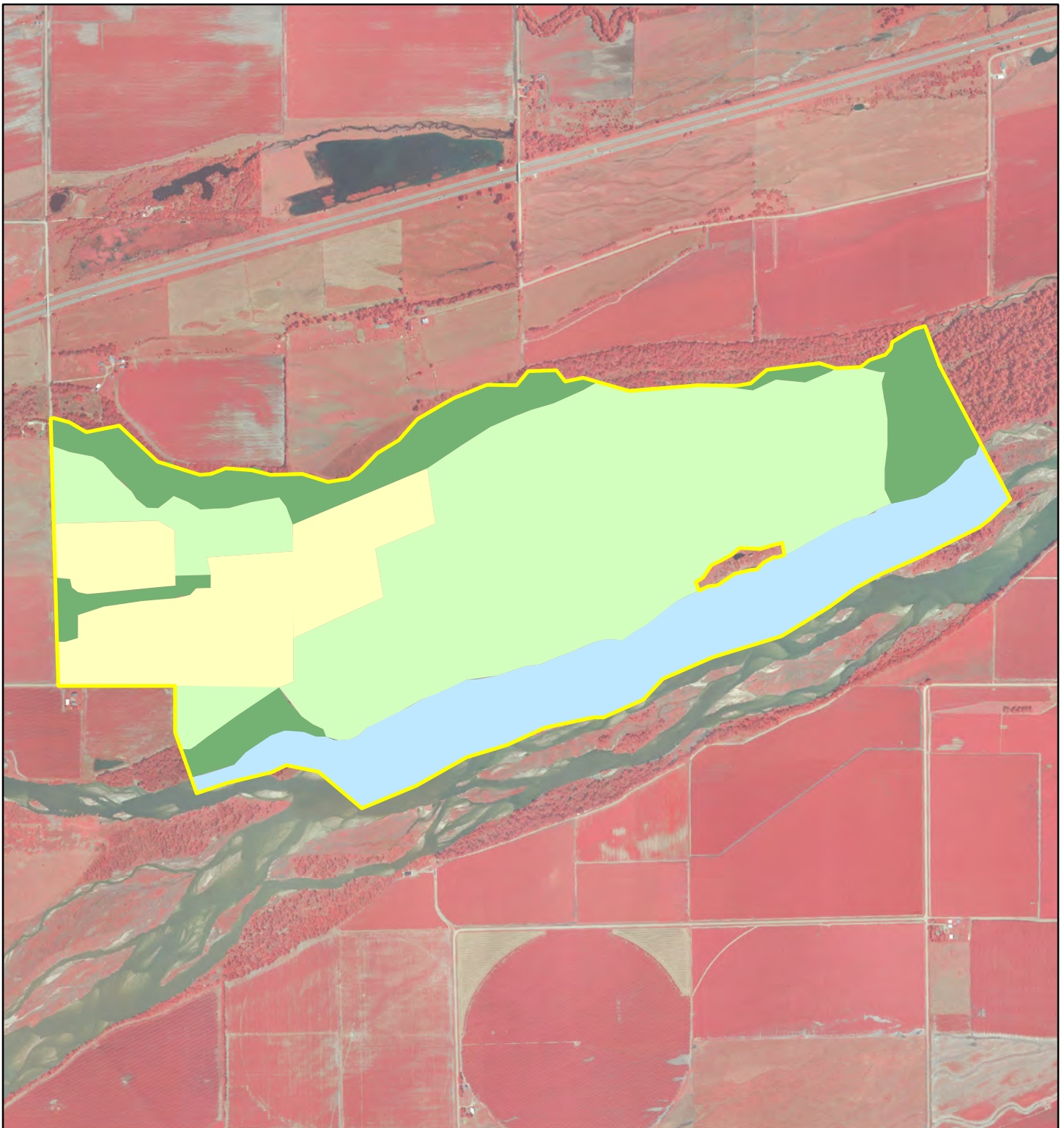


 Miles
0.25

TRACT 2018001
JULY 2019
CIR IMAGERY

Date: 10/2/19
By: TRT

Figure A-7



Legend

PRRIPTractNum

2018001

HabClass

- Complex - Buffer - Cropfield
- Complex - Buffer - Woodland
- Complex - Riverine - Channel
- Complex - Wet Meadow - Grassland

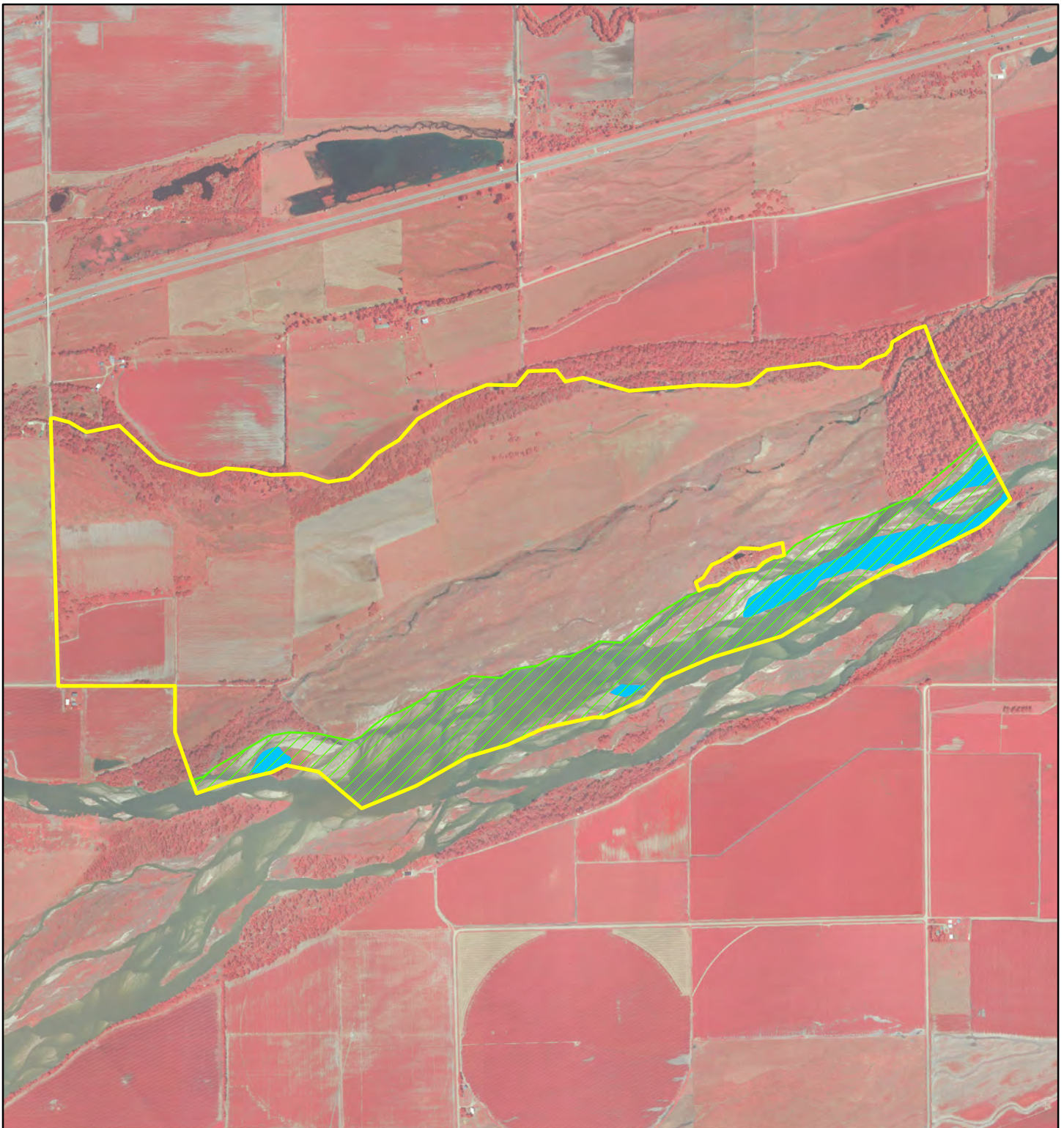
TRACT 2018001
JULY 2019
CIR IMAGERY

Date: 10/2/19
By: TRT



0.25 Miles

Figure A-8



Legend

PRRIPTractNum

2018001

Inchannel Diking & Vegetation Control

Island Tree Clearing



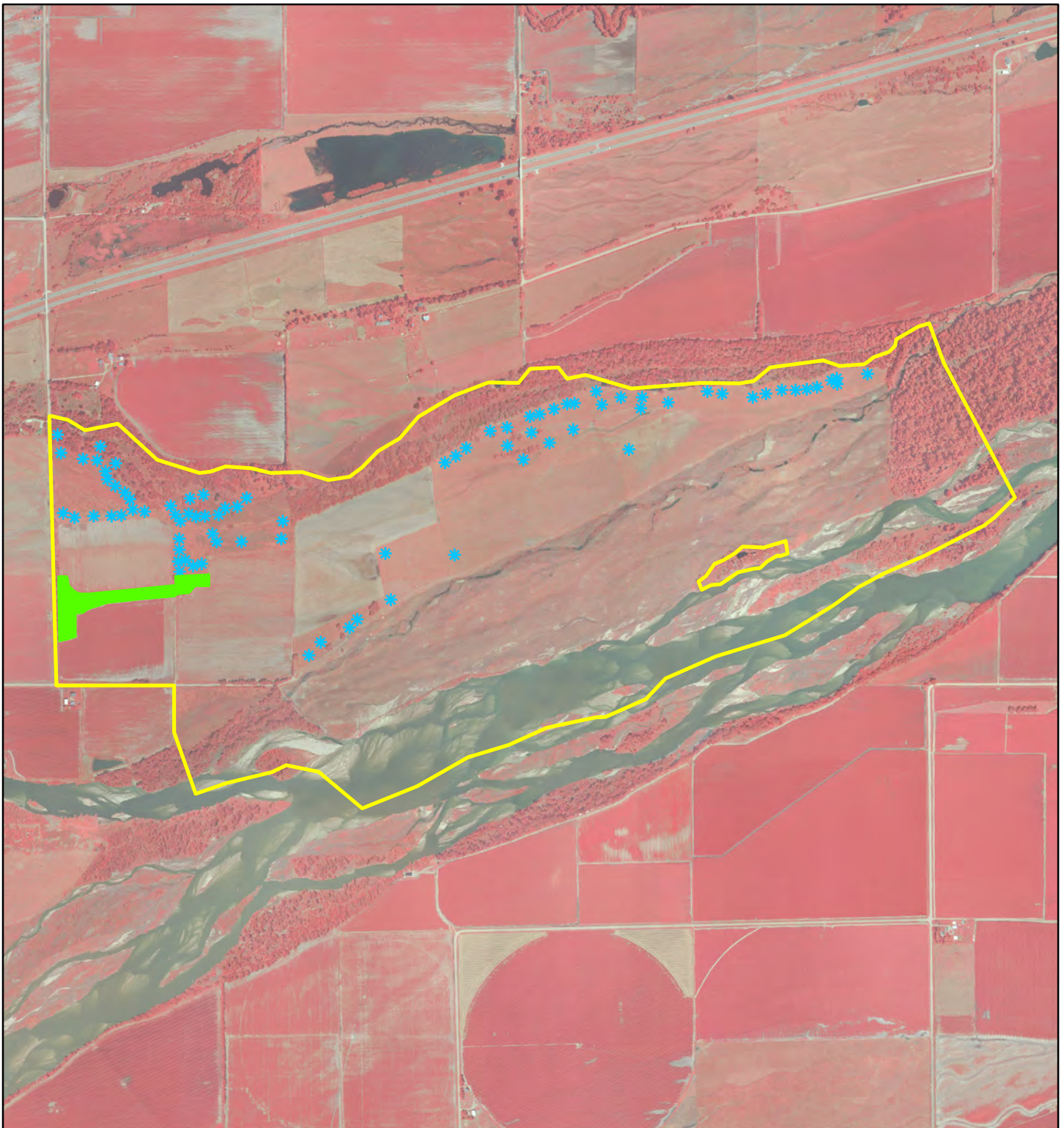
0.25 Miles

TRACT 2018001
Riverine Activities

Date: 10/2/19

By: TRT

Figure A-9



Legend
 PRRIPTractNum
 2018001
 Homesite Tree Removal
 * Existing Tree Pile Removal

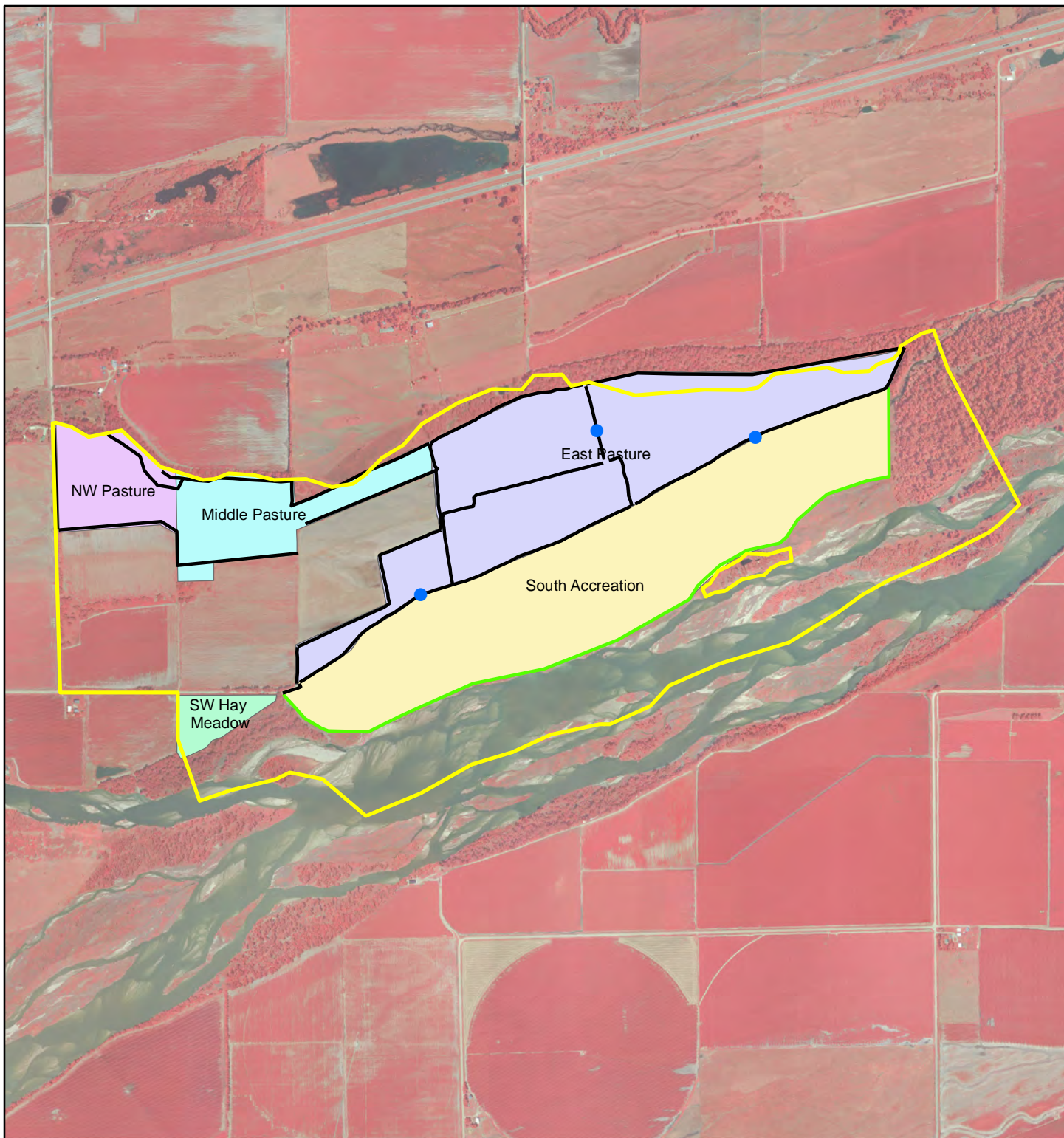


0.25 Miles

TRACT 2018001
 Grassland Activities

Date: 10/2/19
 By: TRT

Figure A-10



Legend

PRRIPTractNum

2018001

Livestock Well

Existing Fence

Temporary High-Tensile Fence



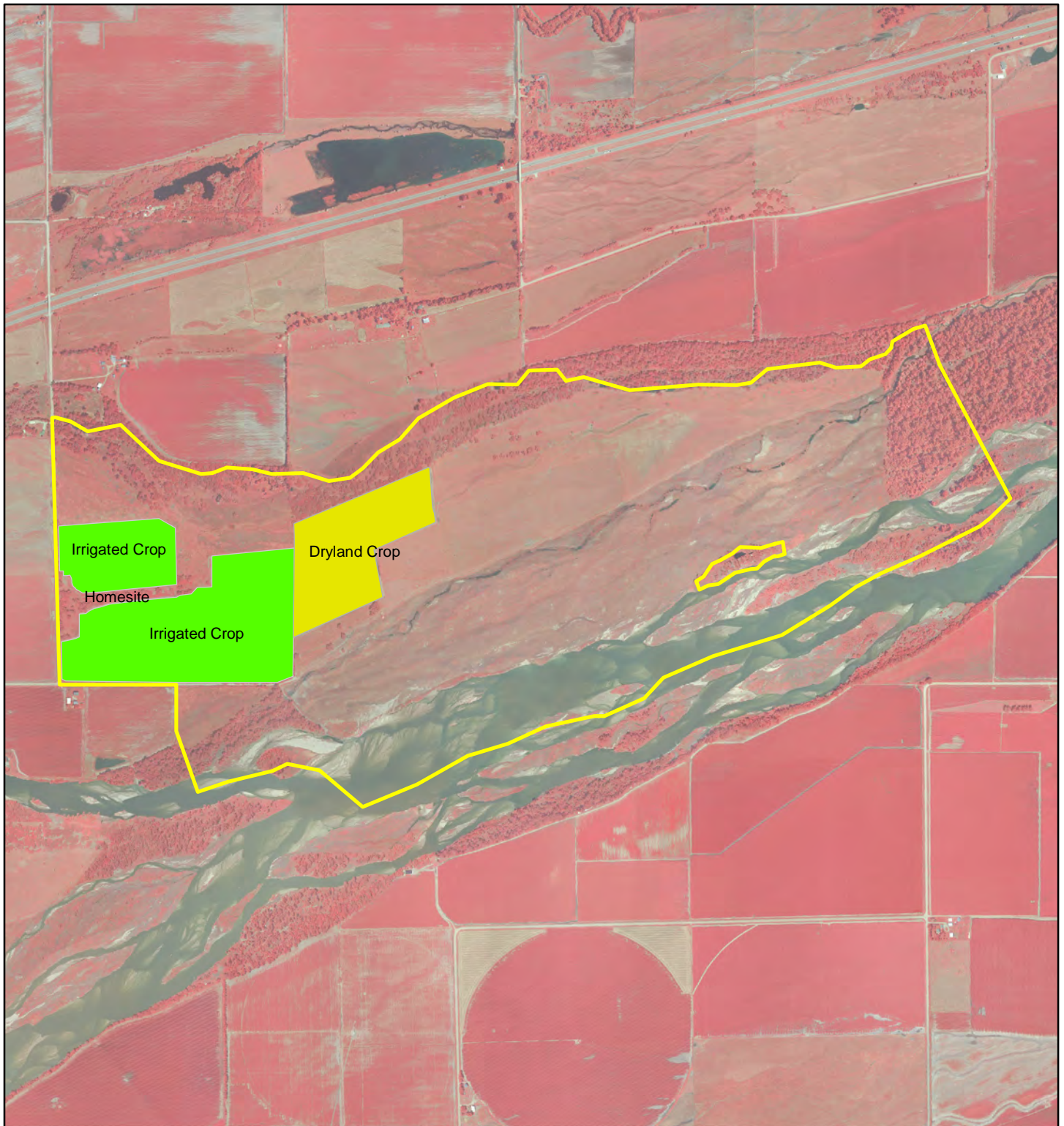
0.25 Miles

TRACT 2018001
Grazing Units

Date: 10/2/19

By: TRT

Figure A-11



Legend

PRRIPTractNum

2018001

Irrigated Crop

Dryland Crop



0.25 Miles

TRACT 2018001
Cropland Units

Date: 10/2/19

By: TRT

Figure A-12