



### Legend

- Dredge/Structures**
- Disposal Sites - Current
  - Disposal Sites - Approved but Inactive
  - Disposal Sites - Proposed
  - Dredge Area - Current (Area routinely dredged - 1995 to 2003)
  - Dredge Area - Proposed
  - Structures Current
  - Structures Proposed
  - Proposed Tern Islands

- Gravel Bed Survey**  
Total acreage = 165 acres
- Gravel Beds

- Mussel Survey (live - sum)**
- 0
  - 1 - 4
  - 5 - 10
  - 11 - 20
  - 21 - 30
  - 31 - 50
  - 51 - 100

- Mitigation Sites**
- CoverType
- AG
  - BLH
  - MARSH

### Arkansas River Navigation Study AUGUST 2005

Map Sheet 1





### Legend

- Dredge/Structures**
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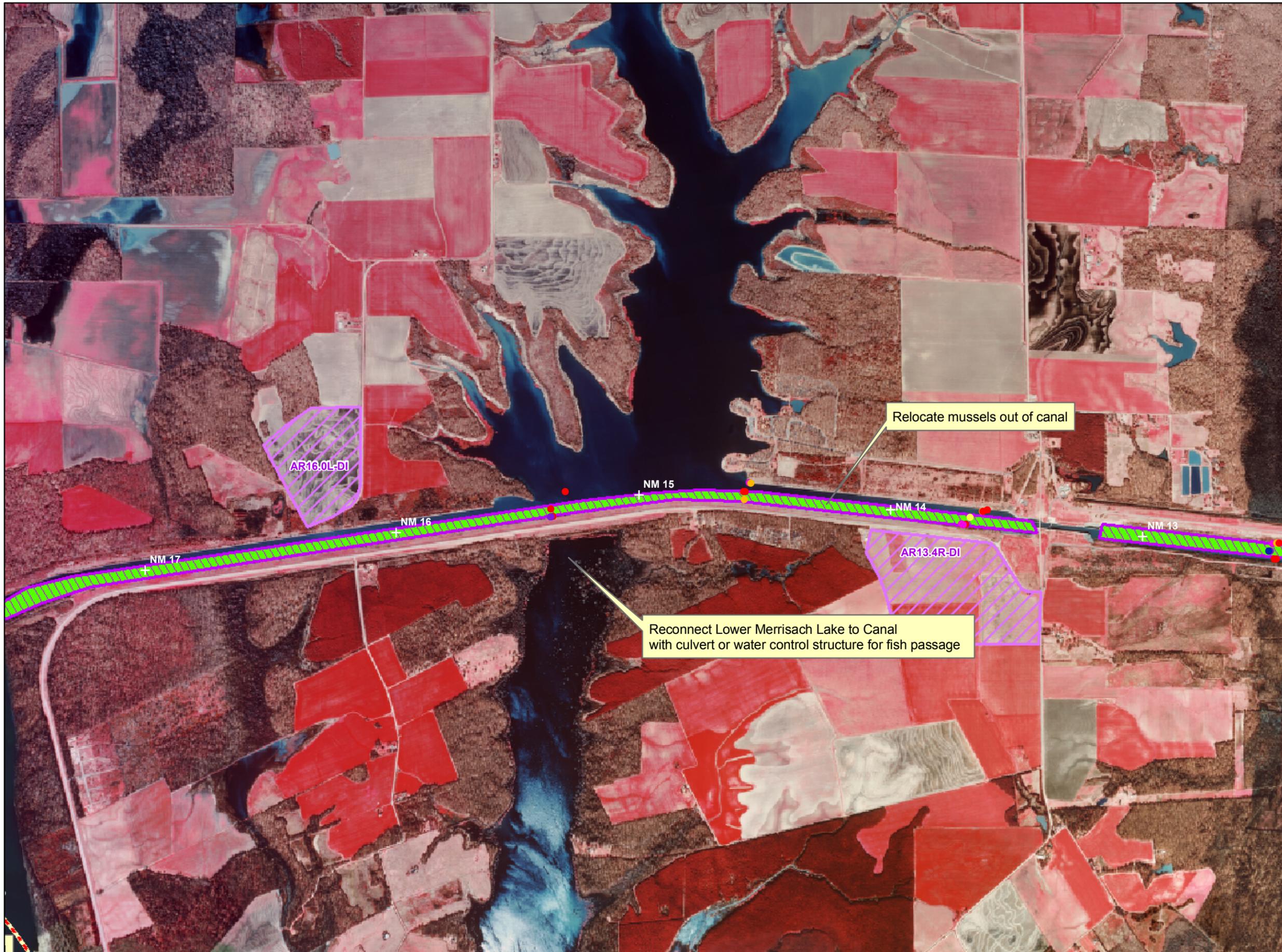
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  - 11 - 20
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  - 51 - 100

- Mitigation Sites**
- CoverType
- AG
  - BLH
  - MARSH

**Arkansas River  
Navigation Study  
AUGUST 2005**

Map Sheet 2





### Legend

#### Dredge/Structures

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- Structures Proposed
- Proposed Tern Islands

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- 51 - 100

#### Mitigation Sites

- CoverType
- AG
  - BLH
  - MARSH

### Arkansas River Navigation Study AUGUST 2005

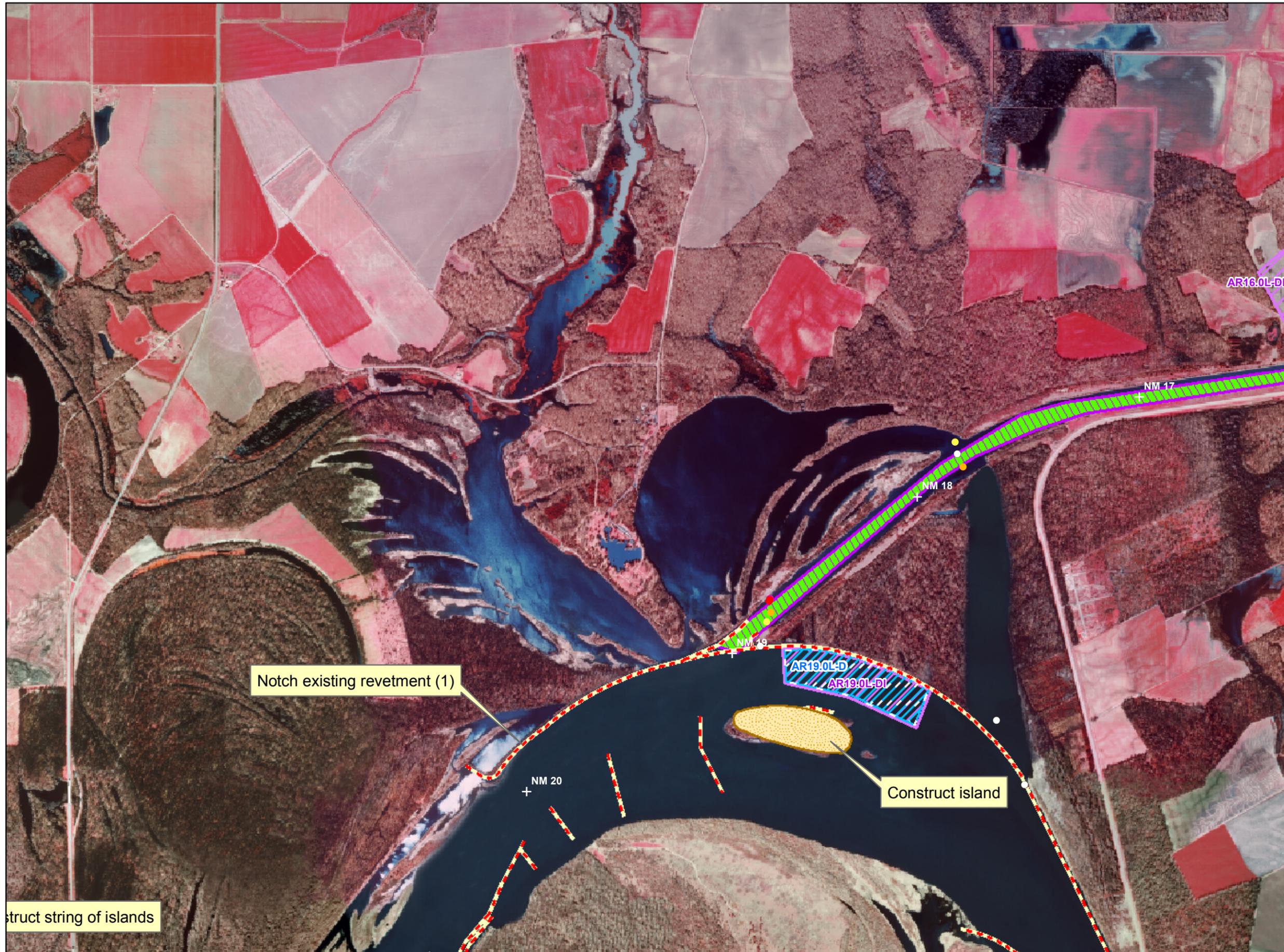
Map Sheet 3



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USACE  
LITTLE ROCK DISTRICT  
TULSA DISTRICT



### Legend

- Dredge/Structures**
- Disposal Sites - Current
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- Mitigation Sites**
- CoverType
- AG
  - BLH
  - MARSH

**Arkansas River Navigation Study**  
**JUNE 2005**

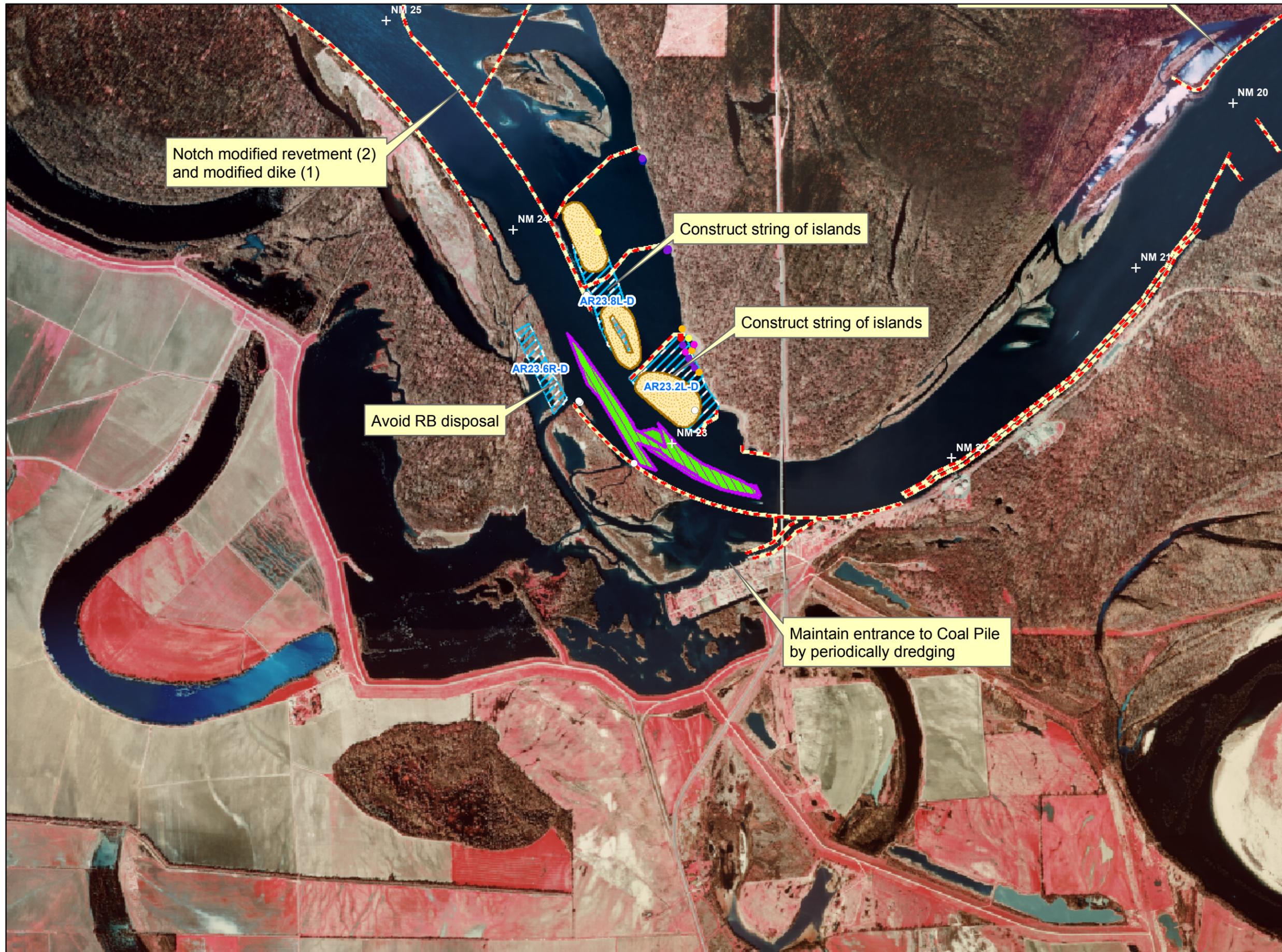
Map Sheet 4



Notch existing revetment (1)

Construct island

Construct string of islands



### Legend

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- Disposal Sites - Current
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  - Disposal Sites - Proposed
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  - Dredge Area - Proposed
  - Structures Current
  - Structures Proposed
  - Proposed Tern Islands

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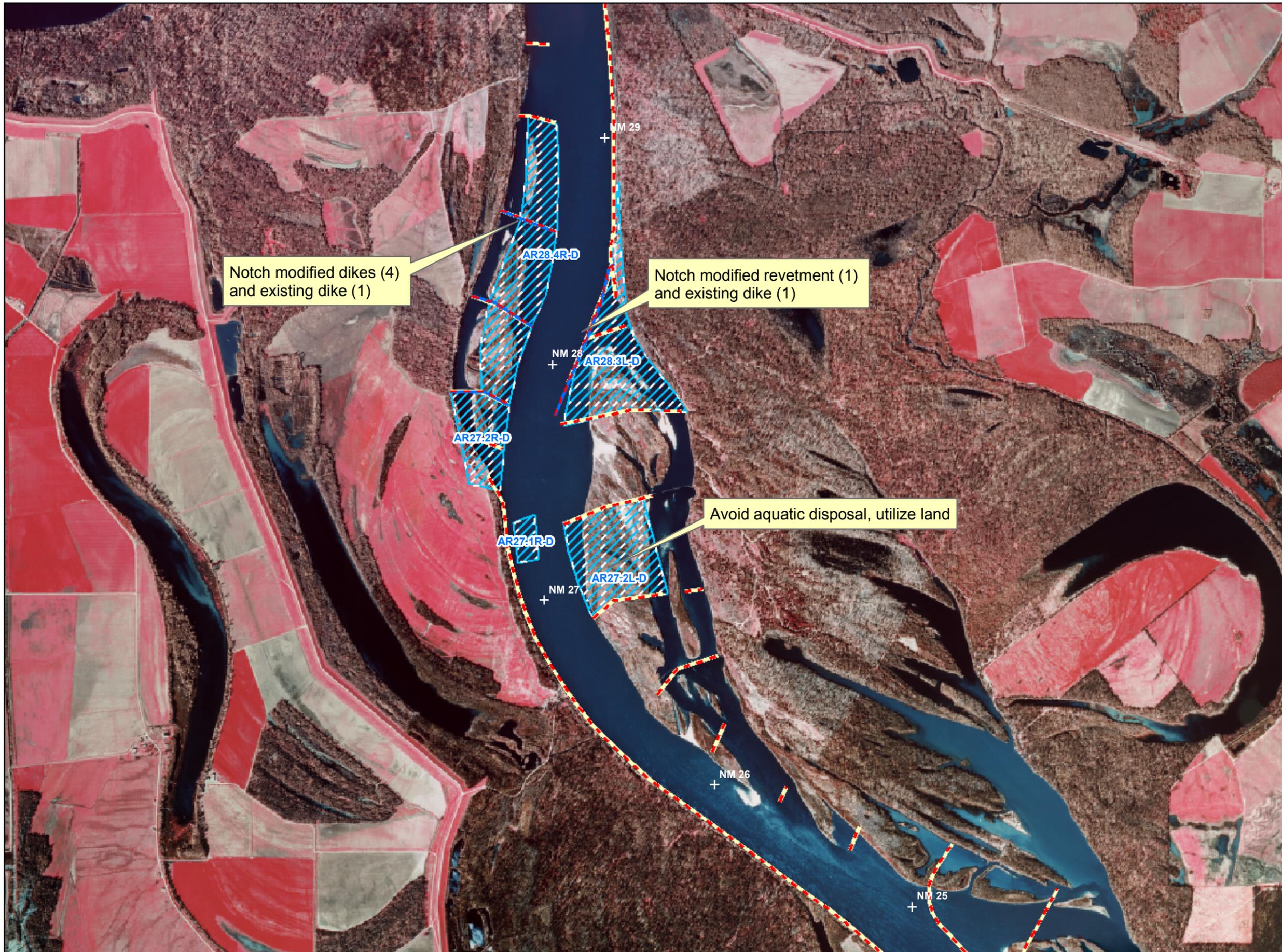
- Mussel Survey (live - sum)**
- 0
  - 1 - 4
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  - 51 - 100

- Mitigation Sites**
- CoverType
- AG
  - BLH
  - MARSH

**Arkansas River  
Navigation Study  
AUGUST 2005**

Map Sheet 5





Notch modified dikes (4)  
and existing dike (1)

Notch modified revetment (1)  
and existing dike (1)

Avoid aquatic disposal, utilize land

### Legend

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- Dredge Area - Proposed
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#### Gravel Bed Survey

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#### Mitigation Sites

- CoverType
- AG
  - BLH
  - MARSH

### Arkansas River Navigation Study AUGUST 2005

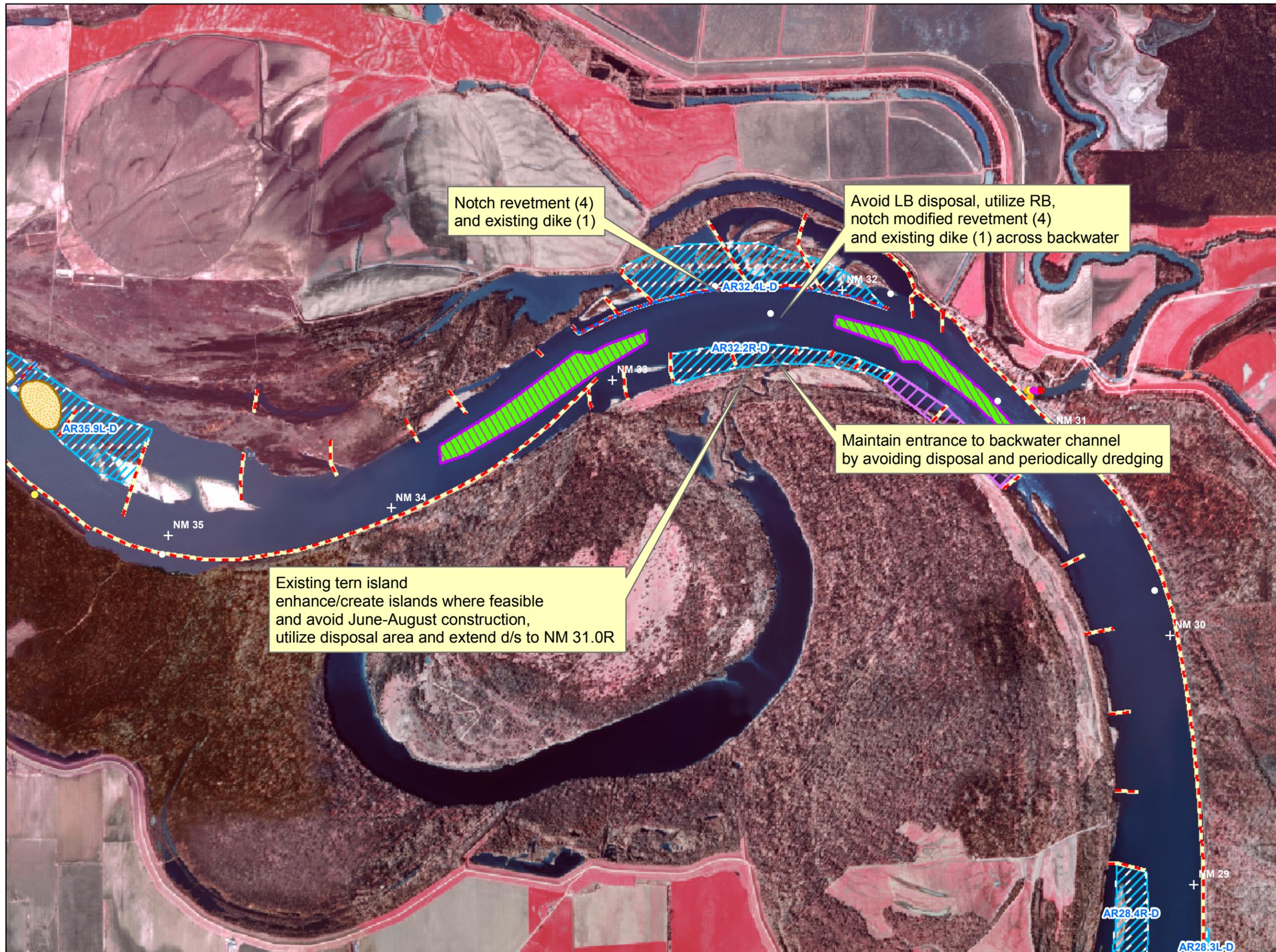
Map Sheet 6



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USACE  
LITTLE ROCK DISTRICT  
TULSA DISTRICT



### Legend

#### Dredge/Structures

-  Disposal Sites - Current
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-  Disposal Sites - Proposed
-  Dredge Area - Current (Area routinely dredged - 1995 to 2003)
-  Dredge Area - Proposed
-  Structures Current
-  Structures Proposed
-  Proposed Tern Islands

#### Gravel Bed Survey

Total acreage = 165 acres

-  Gravel Beds

#### Mussel Survey (live - sum)

-  0
-  1 - 4
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-  11 - 20
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-  31 - 50
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#### Mitigation Sites

##### CoverType

-  AG
-  BLH
-  MARSH

### Arkansas River Navigation Study AUGUST 2005

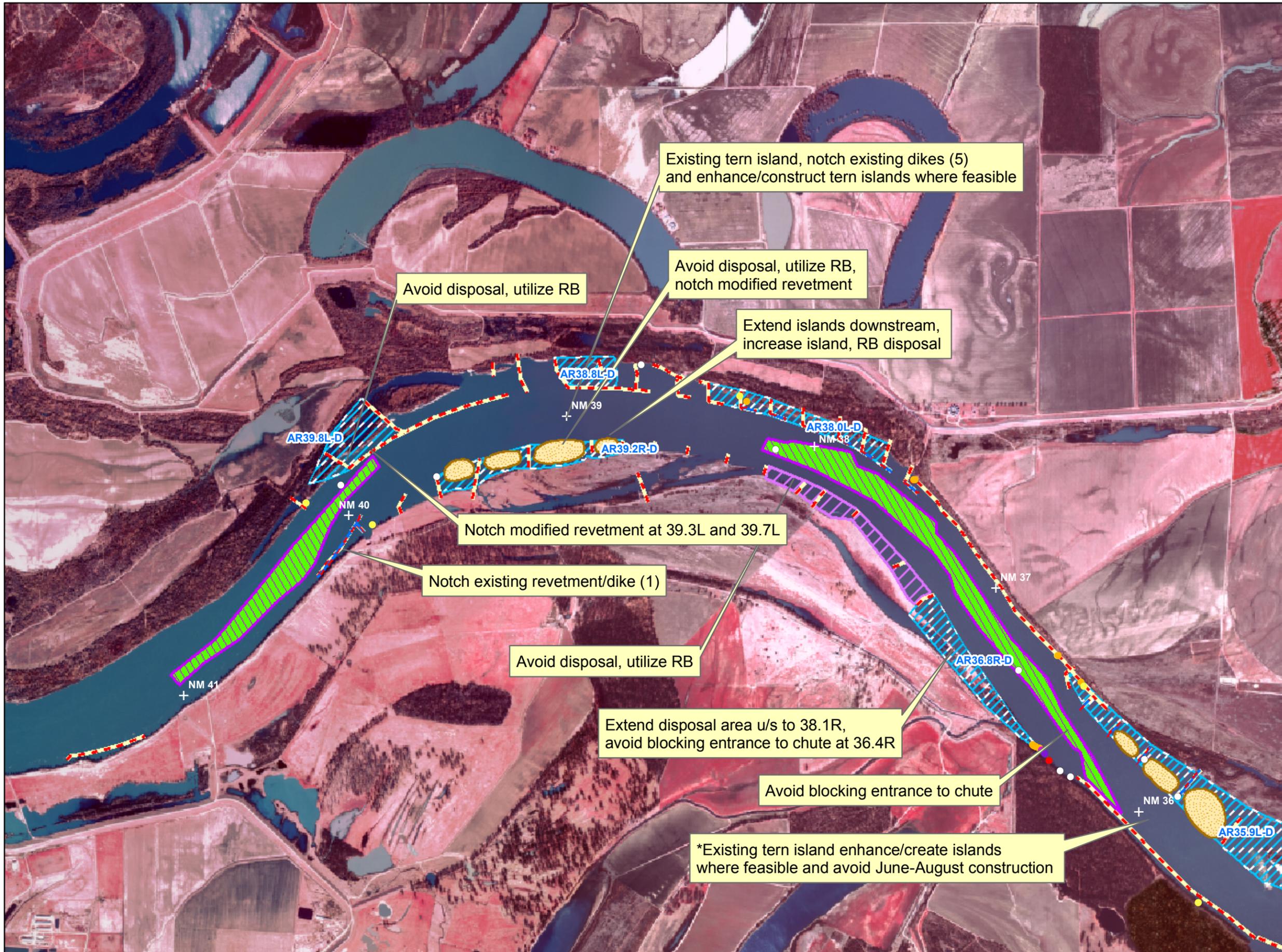
Map Sheet 7



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USACE  
LITTLE ROCK DISTRICT  
TULSA DISTRICT



**Legend**

- Dredge/Structures**
- Disposal Sites - Current
  - Disposal Sites - Approved but Inactive
  - Disposal Sites - Proposed
  - Dredge Area - Current (Area routinely dredged - 1995 to 2003)
  - Dredge Area - Proposed
  - Structures Current
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  - Proposed Tern Islands

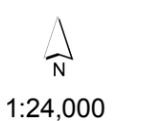
- Gravel Bed Survey**  
Total acreage = 165 acres
- Gravel Beds

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- Mitigation Sites**
- CoverType
- AG
  - BLH
  - MARSH

**Arkansas River Navigation Study**  
**JUNE 2005**

Map Sheet 8



Existing tern island, notch existing dikes (5) and enhance/construct tern islands where feasible

Avoid disposal, utilize RB

Avoid disposal, utilize RB, notch modified revetment

Extend islands downstream, increase island, RB disposal

Notch modified revetment at 39.3L and 39.7L

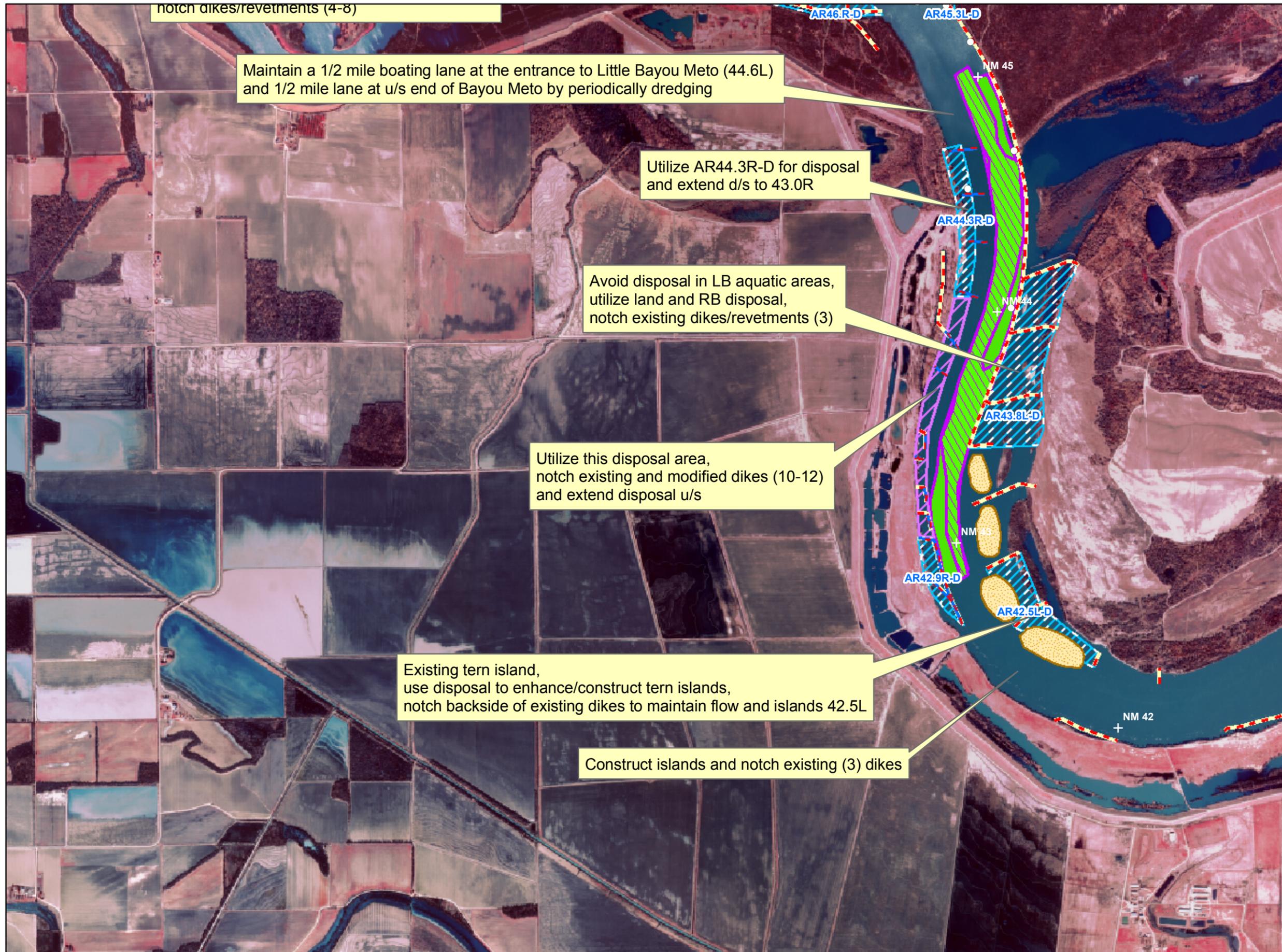
Notch existing revetment/dike (1)

Avoid disposal, utilize RB

Extend disposal area u/s to 38.1R, avoid blocking entrance to chute at 36.4R

Avoid blocking entrance to chute

\*Existing tern island enhance/create islands where feasible and avoid June-August construction



### Legend

#### Dredge/Structures

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#### Mitigation Sites

- CoverType
- AG
  - BLH
  - MARSH

### Arkansas River Navigation Study AUGUST 2005

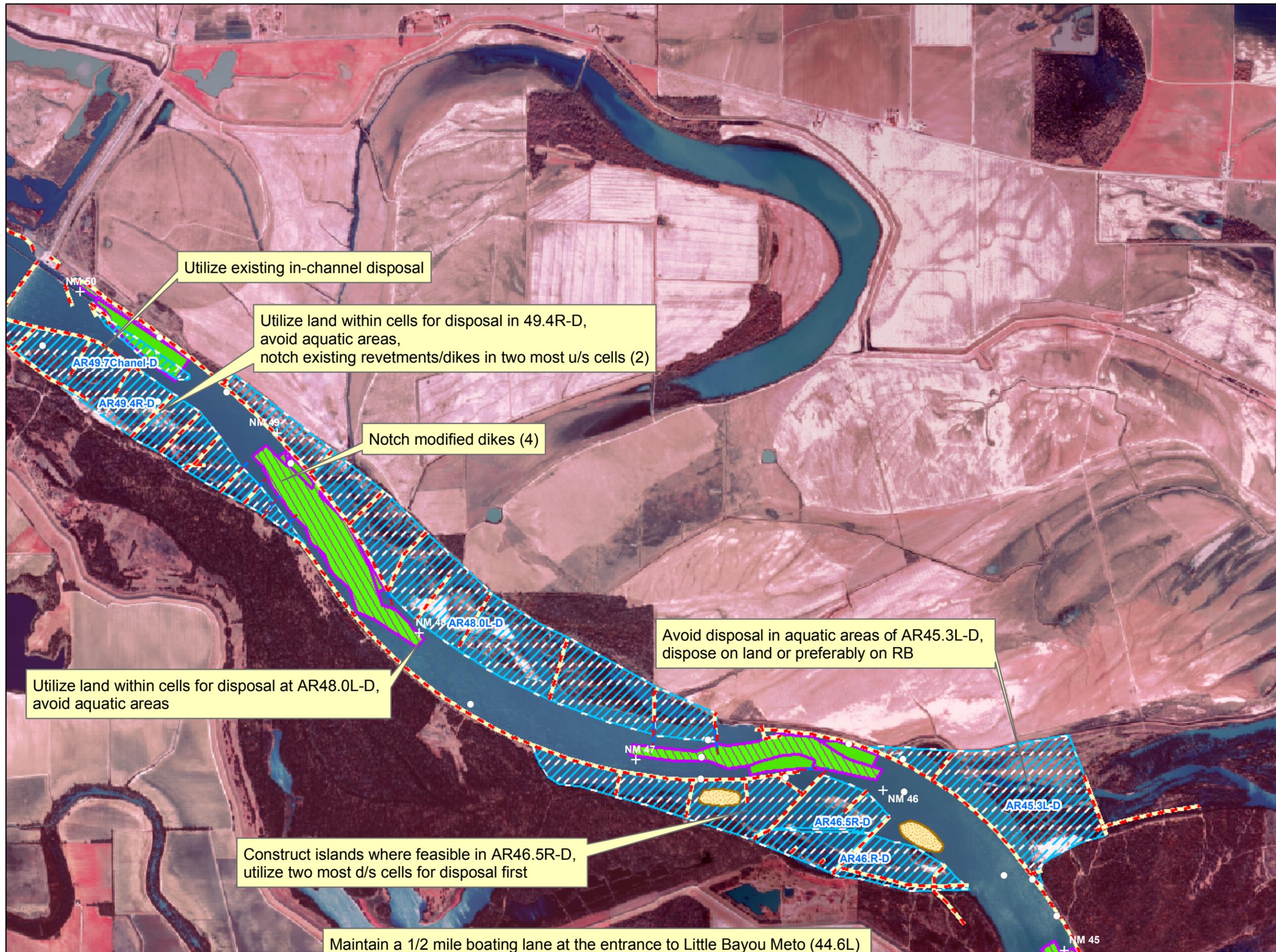
Map Sheet 9



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USACE  
LITTLE ROCK DISTRICT  
TULSA DISTRICT



Utilize existing in-channel disposal

Utilize land within cells for disposal in 49.4R-D, avoid aquatic areas, notch existing revetments/dikes in two most u/s cells (2)

Notch modified dikes (4)

Avoid disposal in aquatic areas of AR45.3L-D, dispose on land or preferably on RB

Utilize land within cells for disposal at AR48.0L-D, avoid aquatic areas

Construct islands where feasible in AR46.5R-D, utilize two most d/s cells for disposal first

Maintain a 1/2 mile boating lane at the entrance to Little Bayou Meto (44.6L)

### Legend

#### Dredge/Structures

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#### Mitigation Sites

- CoverType
- AG
  - BLH
  - MARSH

### Arkansas River Navigation Study JUNE 2005

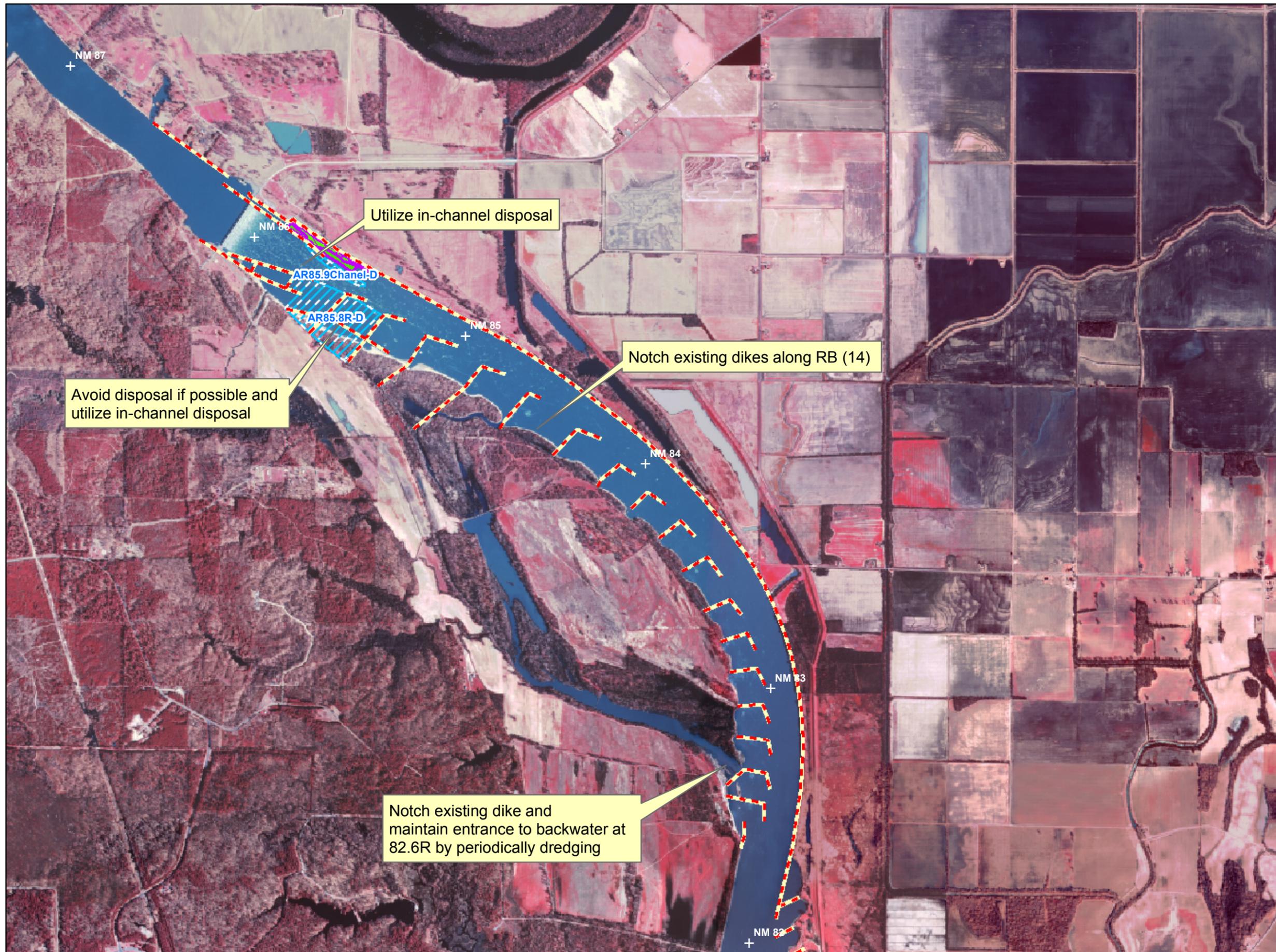
Map Sheet 10



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USACE  
LITTLE ROCK DISTRICT  
TULSA DISTRICT



### Legend

#### Dredge/Structures

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#### Mitigation Sites

- CoverType
-  AG
  -  BLH
  -  MARSH

### Arkansas River Navigation Study AUGUST 2005

Map Sheet 17



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USACE  
LITTLE ROCK DISTRICT  
TULSA DISTRICT



### Legend

#### Dredge/Structures

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#### Mitigation Sites

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### Arkansas River Navigation Study AUGUST 2005

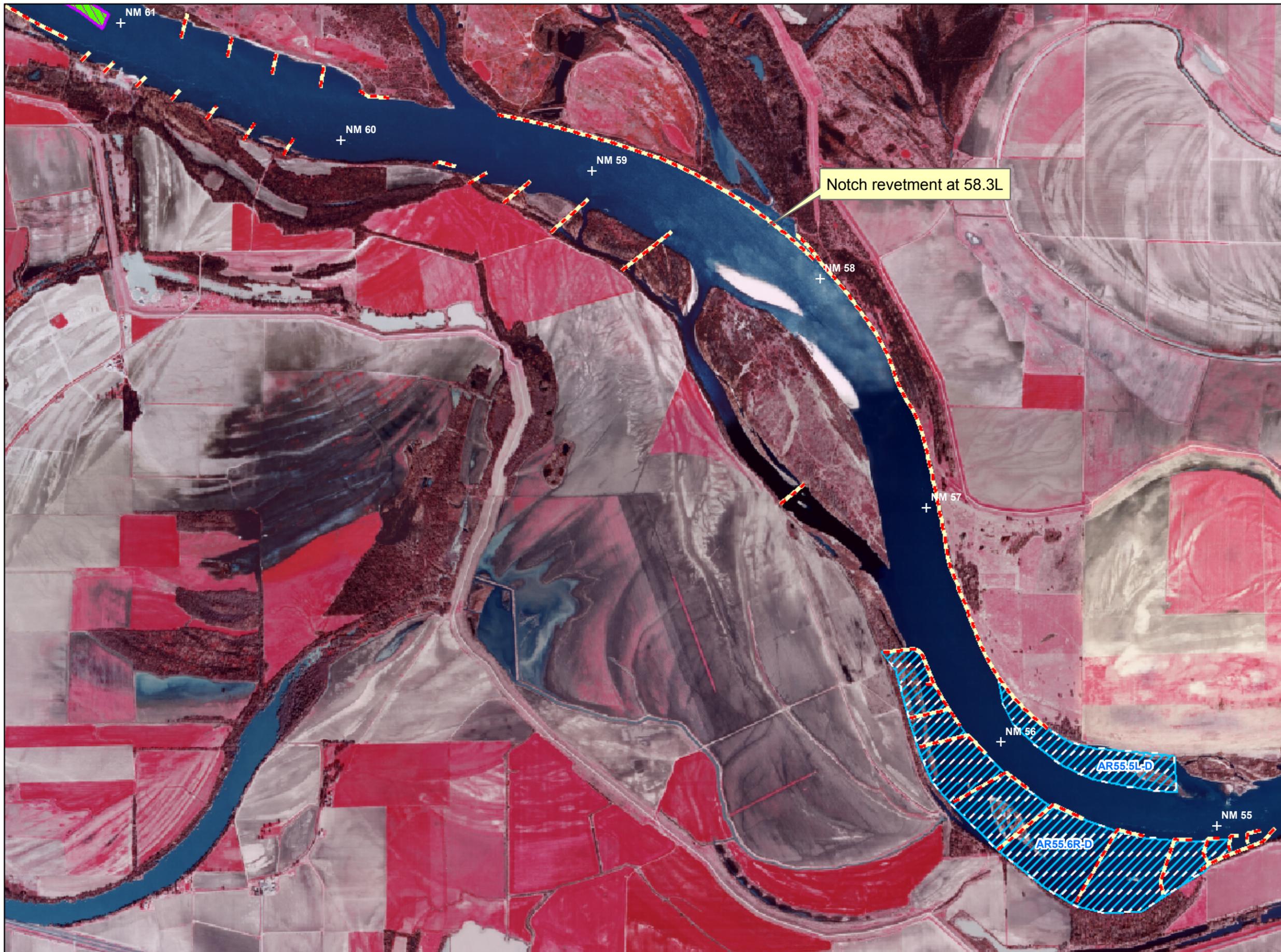
Map Sheet 11



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USACE  
LITTLE ROCK DISTRICT  
TULSA DISTRICT



### Legend

- Dredge/Structures**
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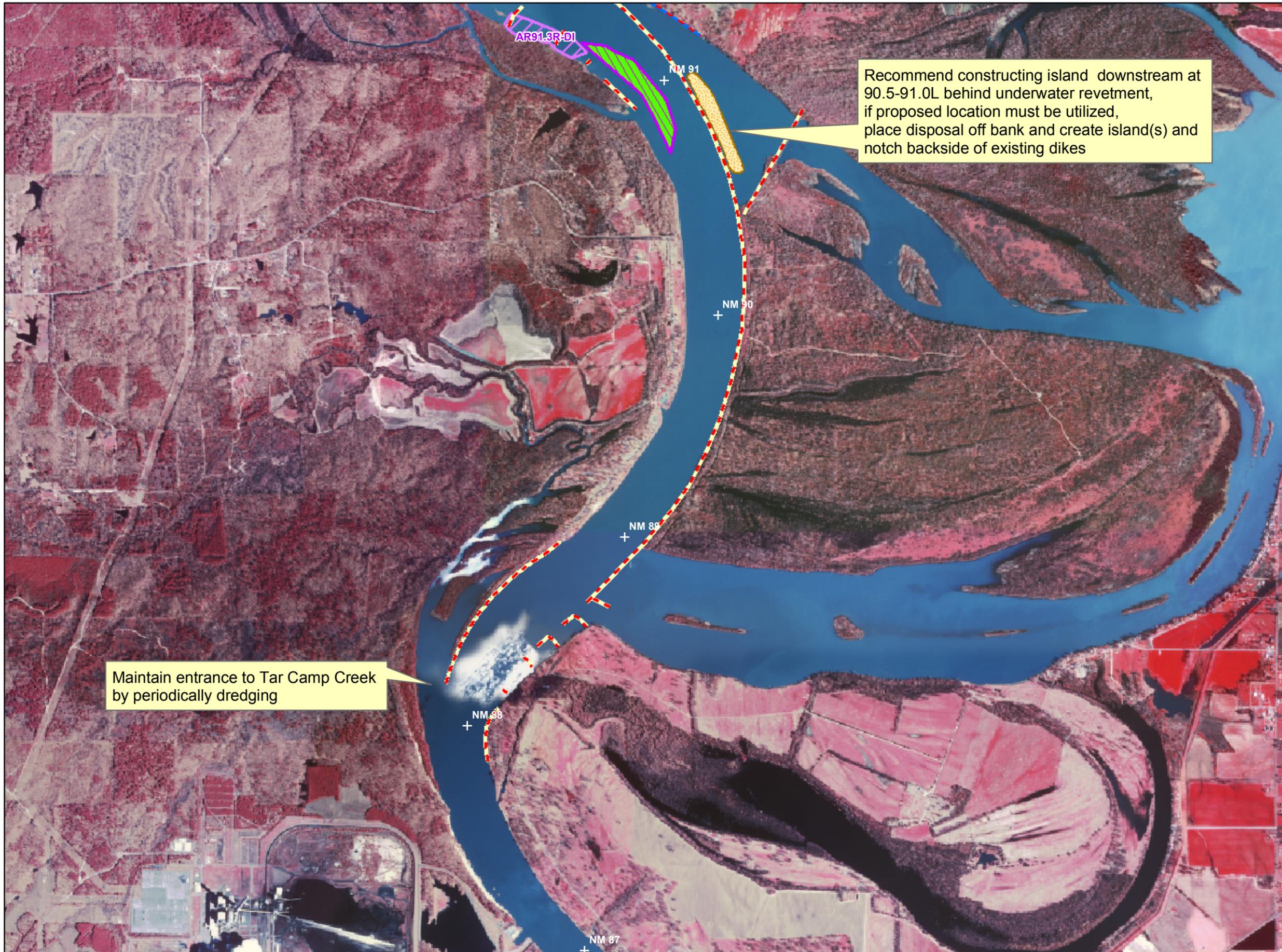
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- Mitigation Sites**
- CoverType
- AG
  - BLH
  - MARSH

**Arkansas River  
Navigation Study  
AUGUST 2005**

Map Sheet 12





Recommend constructing island downstream at 90.5-91.0L behind underwater revetment, if proposed location must be utilized, place disposal off bank and create island(s) and notch backside of existing dikes

Maintain entrance to Tar Camp Creek by periodically dredging

### Legend

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#### Mitigation Sites

- CoverType
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  - BLH
  - MARSH

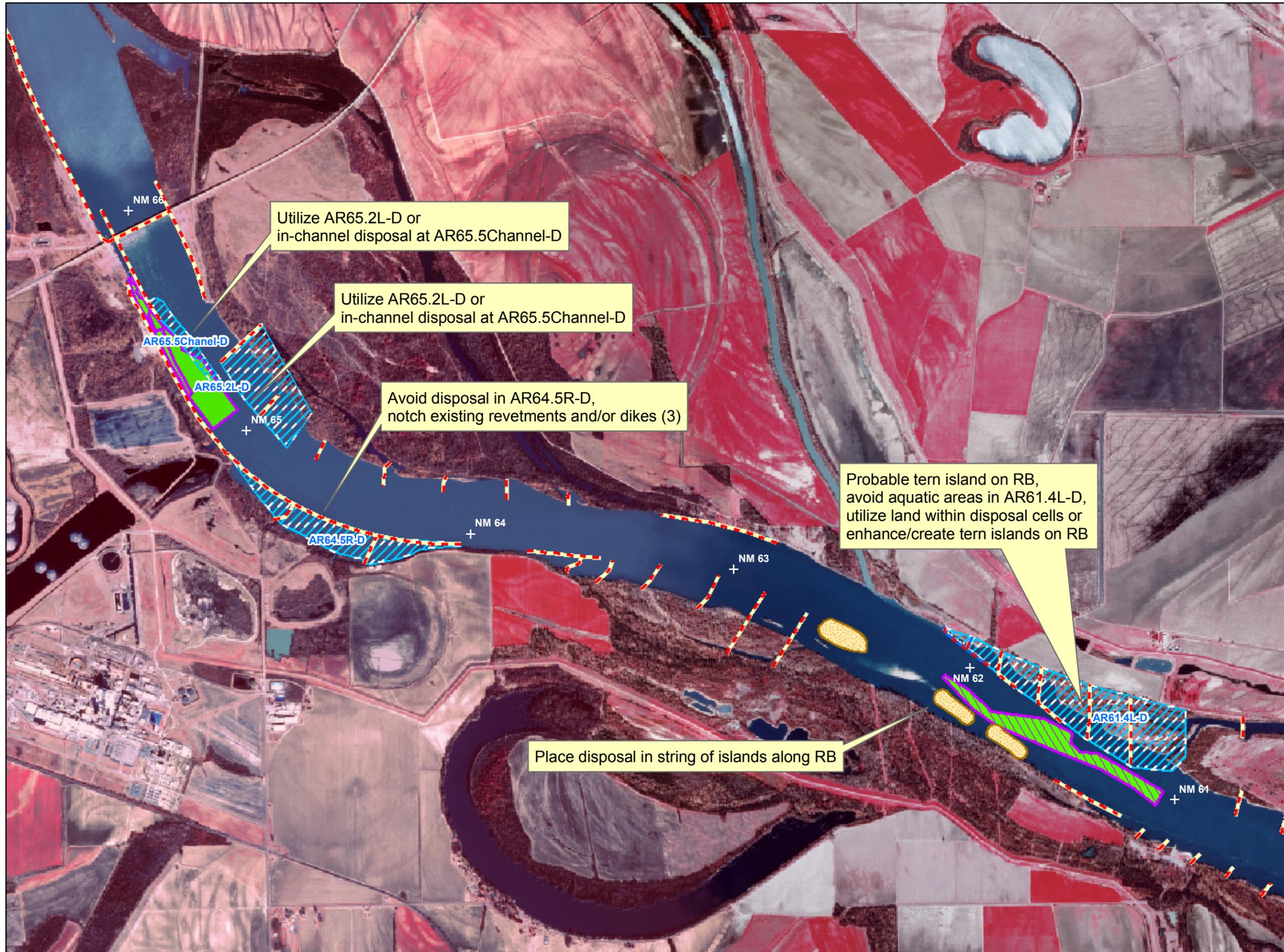
### Arkansas River Navigation Study AUGUST 2005

Map Sheet 18



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### Legend

#### Dredge/Structures

- Disposal Sites - Current
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#### Mitigation Sites

- CoverType
- AG
  - BLH
  - MARSH

### Arkansas River Navigation Study AUGUST 2005

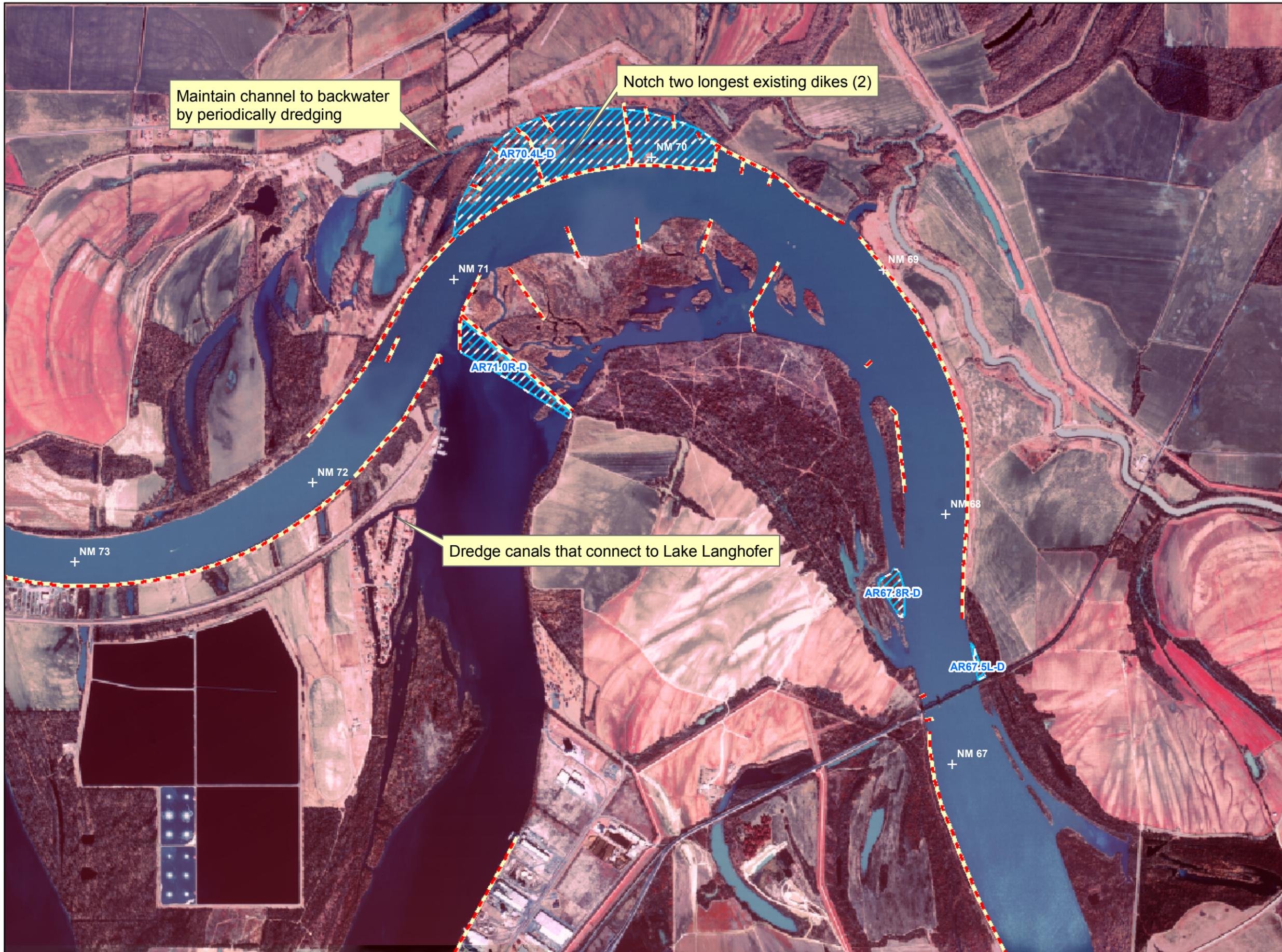
Map Sheet 13



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USACE  
LITTLE ROCK DISTRICT  
TULSA DISTRICT



### Legend

#### Dredge/Structures

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  -  MARSH

### Arkansas River Navigation Study JUNE 2005

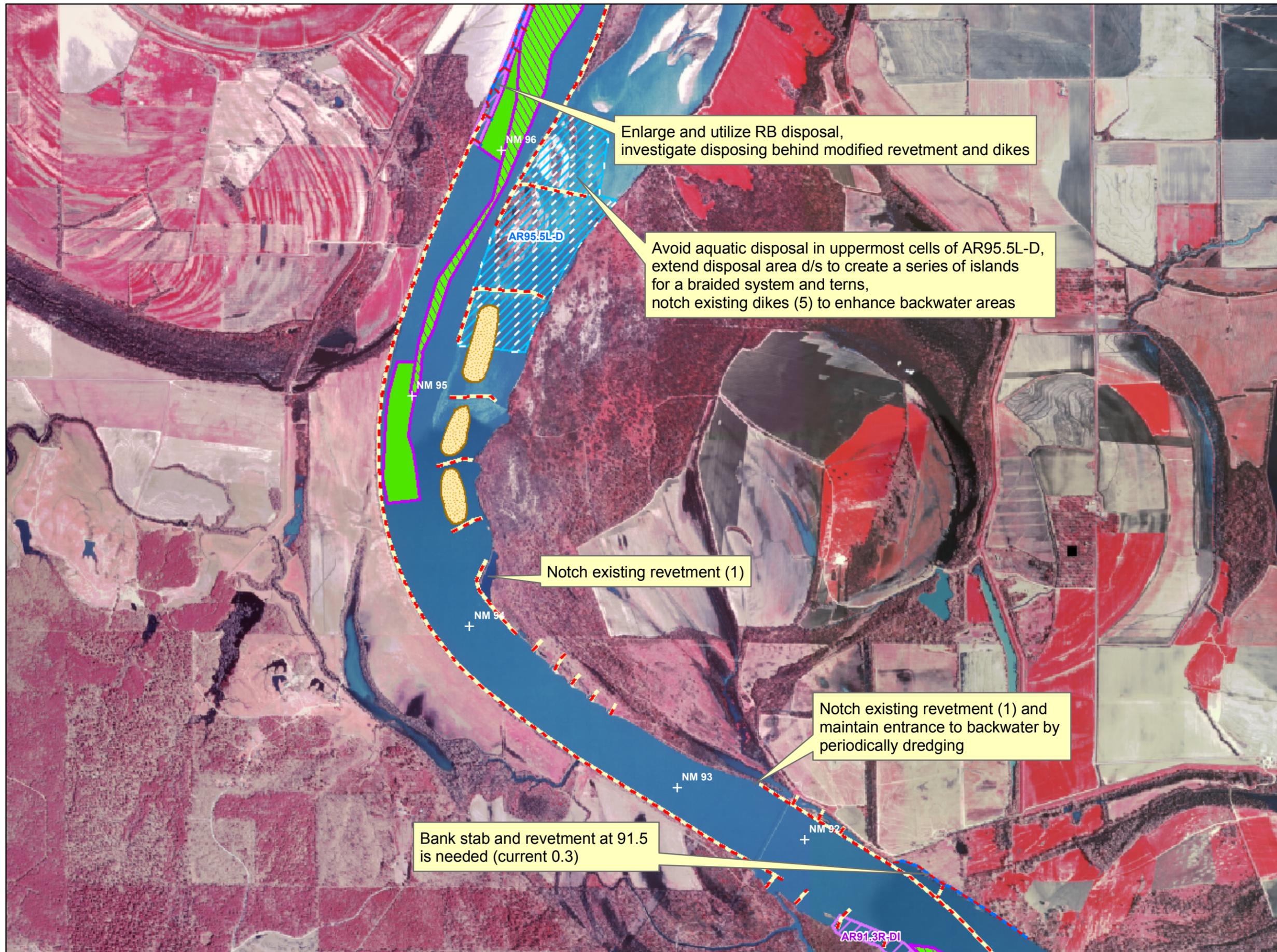
Map Sheet 14



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USACE  
LITTLE ROCK DISTRICT  
TULSA DISTRICT



### Legend

#### Dredge/Structures

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#### Mitigation Sites

##### CoverType

-  AG
-  BLH
-  MARSH

### Arkansas River Navigation Study AUGUST 2005

Map Sheet 19



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USACE  
LITTLE ROCK DISTRICT  
TULSA DISTRICT



### Legend

#### Dredge/Structures

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#### Mitigation Sites

- CoverType
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  -  MARSH

### Arkansas River Navigation Study AUGUST 2005

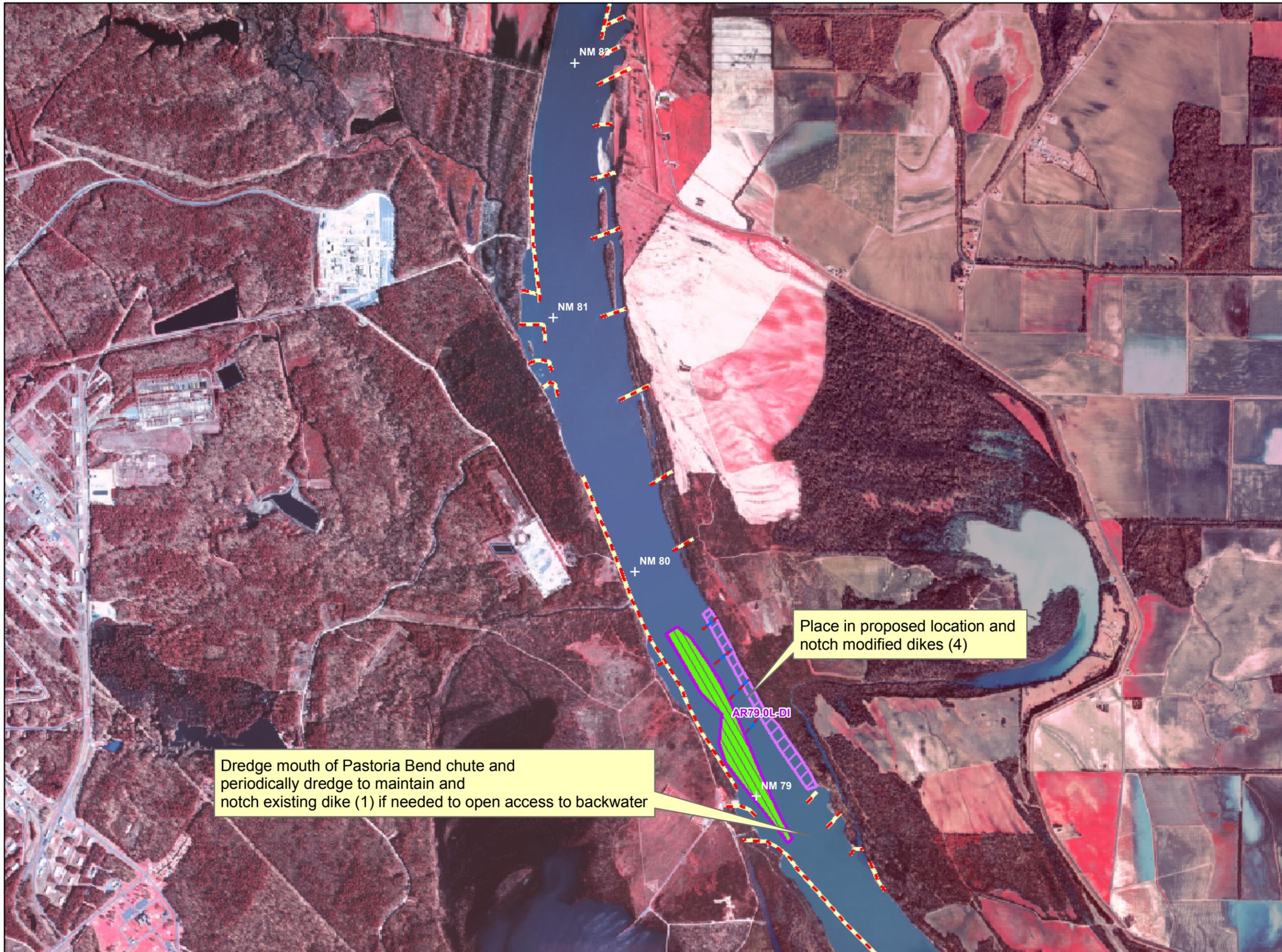
Map Sheet 15



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USACE  
LITTLE ROCK DISTRICT  
TULSA DISTRICT



Dredge mouth of Pastoria Bend chute and periodically dredge to maintain and notch existing dike (1) if needed to open access to backwater

Place in proposed location and notch modified dikes (4)

### Legend

#### Dredge/Structures

- Disposal Sites - Current
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#### Gravel Bed Survey

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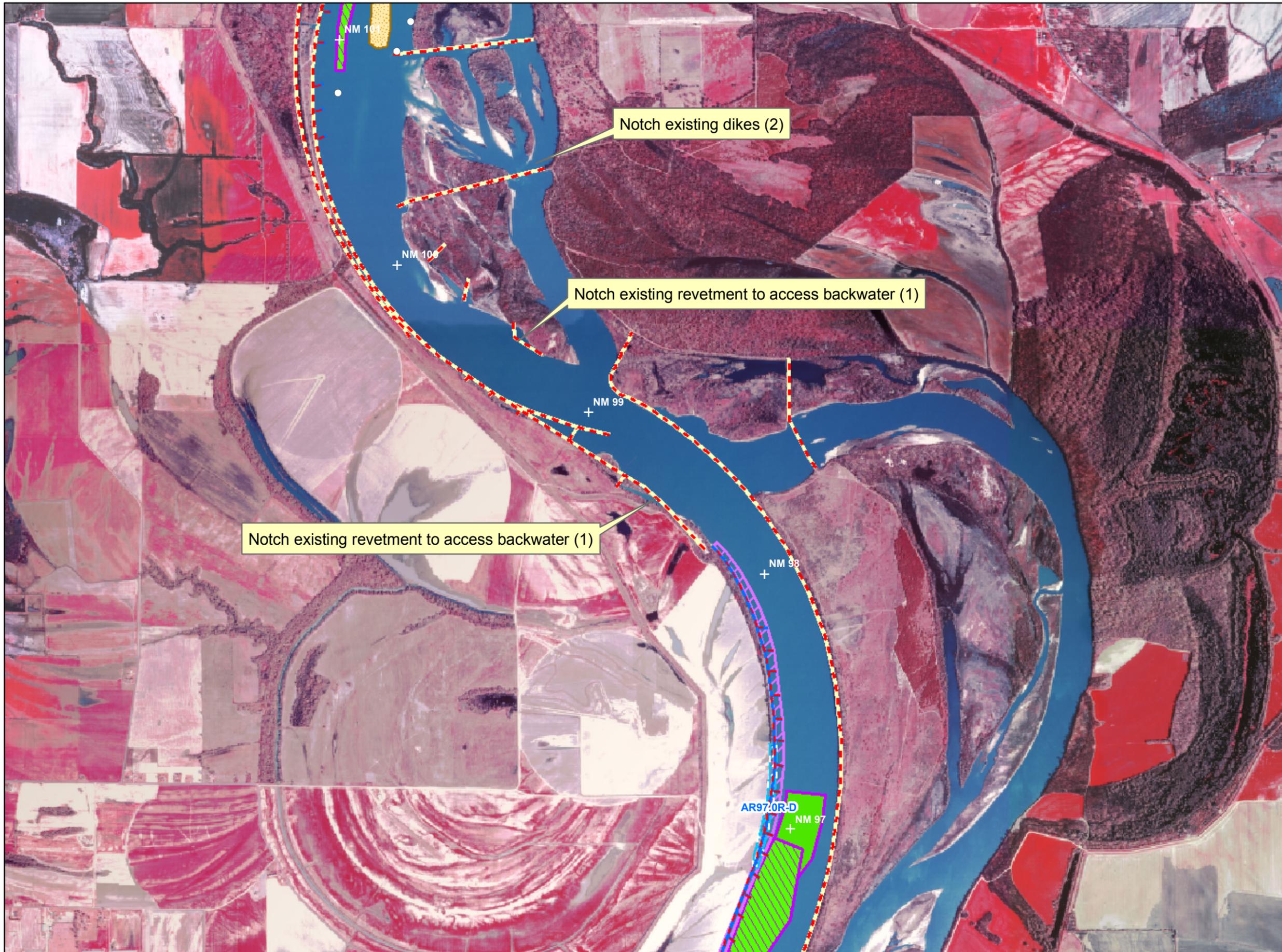
#### Mitigation Sites

- CoverType
- AG
  - BLH
  - MARSH

### Arkansas River Navigation Study JUNE 2005

Map Sheet 16





### Legend

#### Dredge/Structures

-  Disposal Sites - Current
-  Disposal Sites - Approved but Inactive
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#### Mitigation Sites

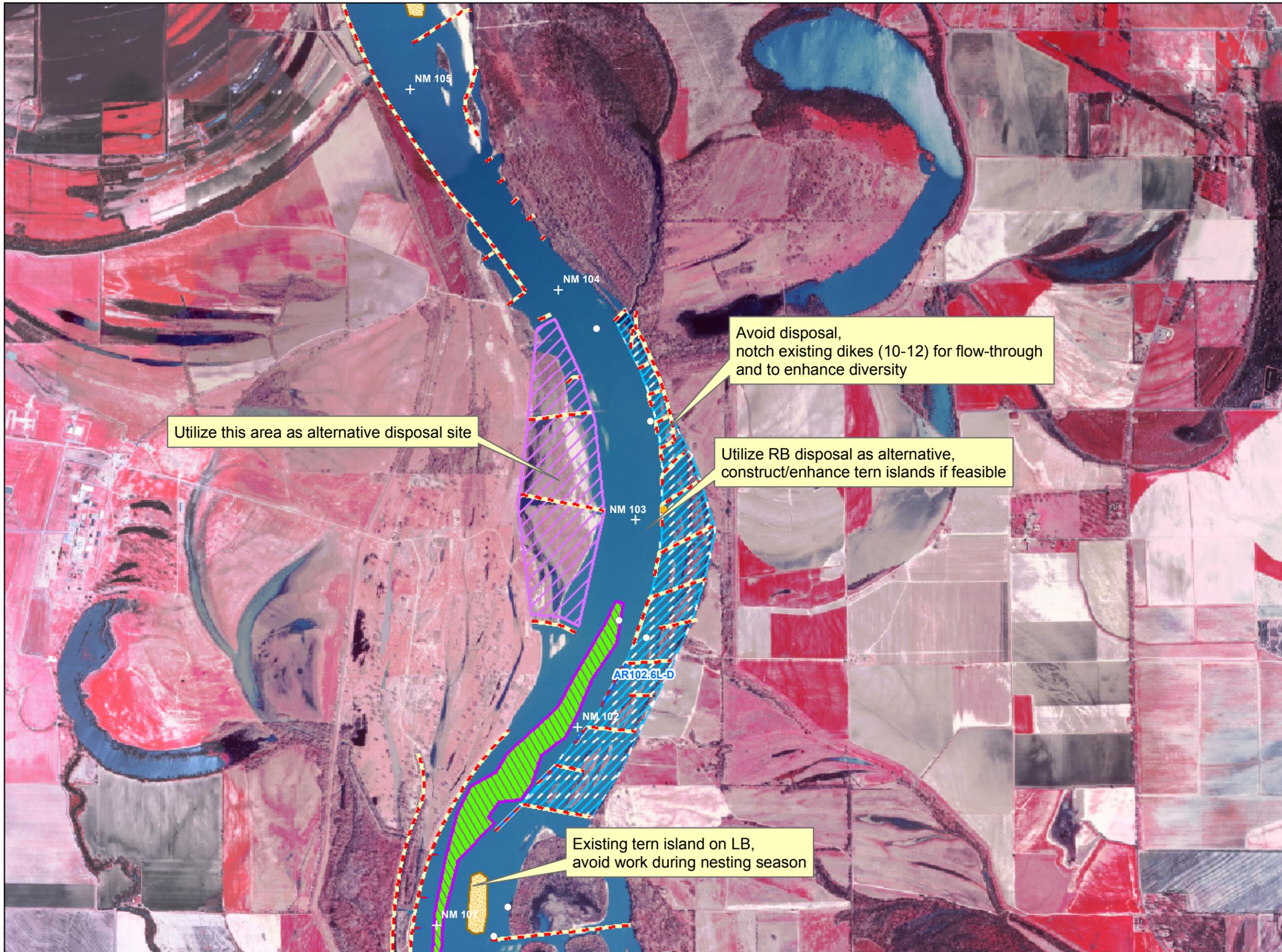
- CoverType
-  AG
  -  BLH
  -  MARSH

### Arkansas River Navigation Study AUGUST 2005

Map Sheet 20

  
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### Legend

#### Dredge/Structures

-  Disposal Sites - Current
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-  Disposal Sites - Proposed
-  Dredge Area - Current  
(Area routinely dredged - 1995 to 2003)
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#### Mitigation Sites

- CoverType
-  AG
  -  BLH
  -  MARSH

### Arkansas River Navigation Study AUGUST 2005

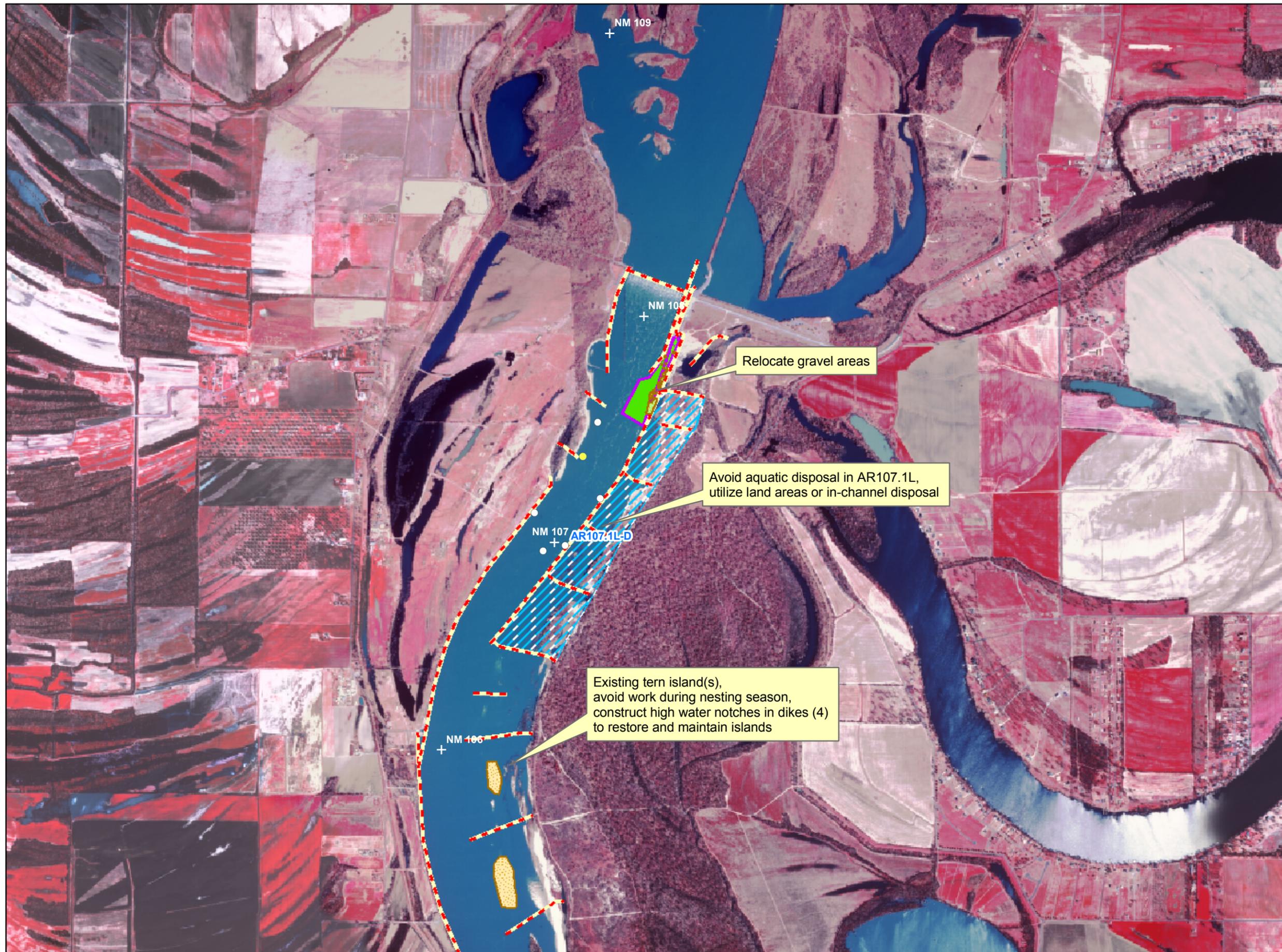
Map Sheet 21



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USACE  
LITTLE ROCK DISTRICT  
TULSA DISTRICT



### Legend

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- Disposal Sites - Current
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Total acreage = 165 acres
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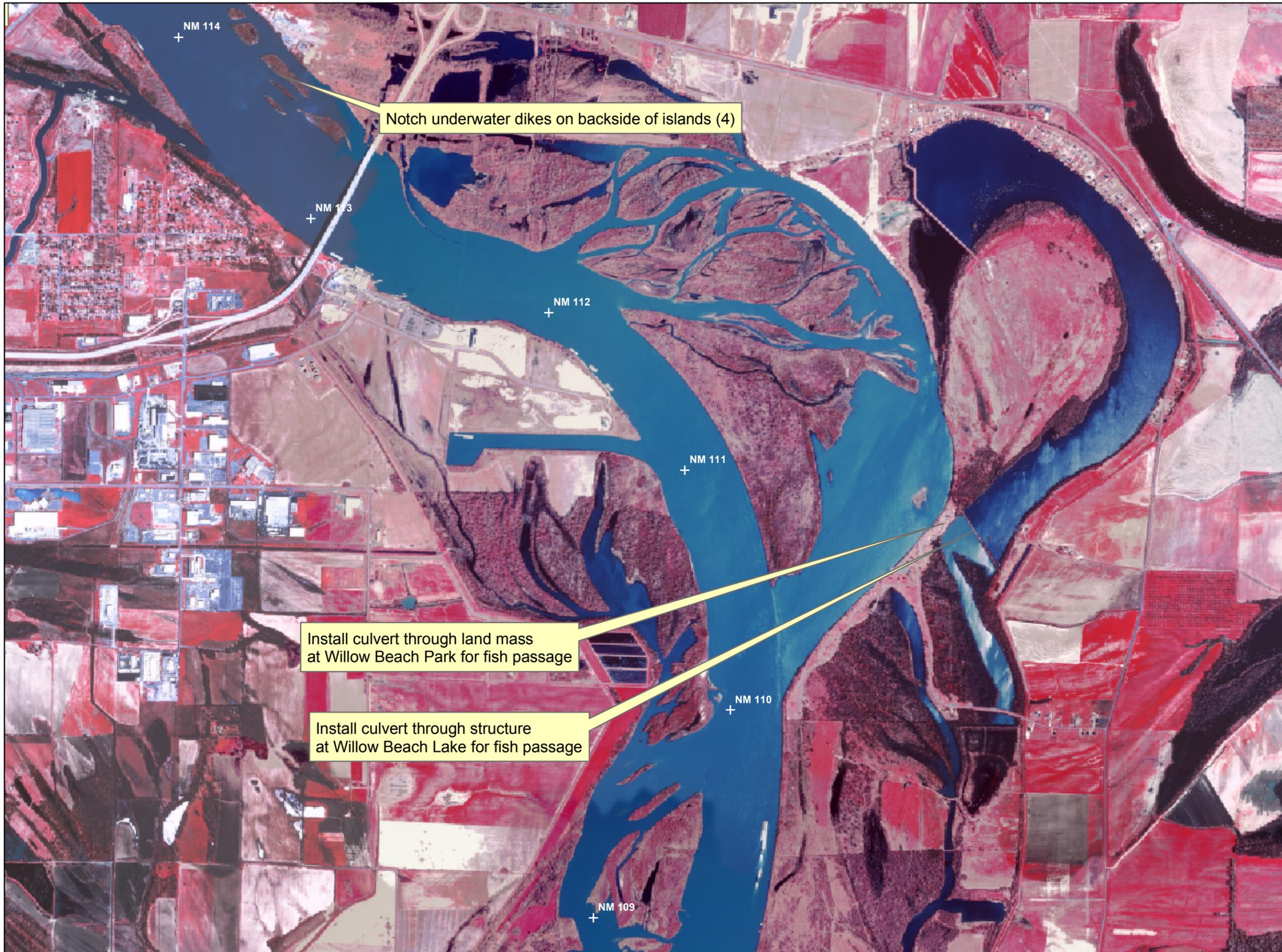
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- Mitigation Sites**
- CoverType
- AG
  - BLH
  - MARSH

### Arkansas River Navigation Study AUGUST 2005

Map Sheet 22





### Legend

#### Dredge/Structures

-  Disposal Sites - Current
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-  Dredge Area - Current  
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#### Mitigation Sites

- CoverType
-  AG
  -  BLH
  -  MARSH

### Arkansas River Navigation Study AUGUST 2005

Map Sheet 23



1:24,000



USACE  
LITTLE ROCK DISTRICT  
TULSA DISTRICT



### Legend

- Dredge/Structures**
- Disposal Sites - Current
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- Mitigation Sites**
- CoverType
- AG
  - BLH
  - MARSH

**Arkansas River  
Navigation Study  
AUGUST 2005**

Map Sheet 24





### Legend

#### Dredge/Structures

-  Disposal Sites - Current
-  Disposal Sites - Approved but Inactive
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#### Mitigation Sites

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-  AG
  -  BLH
  -  MARSH

### Arkansas River Navigation Study AUGUST 2005

Map Sheet 25



1:24,000



USACE  
LITTLE ROCK DISTRICT  
TULSA DISTRICT