

## Navigation Pool 16

This pool includes 3,882 land acres and 3,123 water acres; total of 7,005 acres. Within the total acres of fee title there is 5,422 acres of GP lands and waters. Fee title land acres by state include: 3,314 acres in Illinois and 568 acres in Iowa.

### **Environmentally Sensitive Areas:**

#### **Milan Bottoms Environmentally Sensitive Area (16-E-1)**

**Rock Island County, Illinois**

**Mississippi River Mile: 476.7-478.3 L**

**Managed By: Illinois Department of Natural Resources**

**Acreage:**

**Plates:**

*General Description:* The area primarily includes forested and non-forested wetland community types. Forested community types include silver maple, cottonwood, oak and hickory, and bottomland hardwoods mix. This area is managed for fish and wildlife enhancement purposes under a GP lands agreement by USFWS third party agreement to the Illinois DNR. Hunting and other public use in this area are managed in accordance with the Illinois Wildlife Code, Title 36, and USFWS's area specific regulations for the Upper Mississippi River NWFR. This area has no developments.

*Future Management Recommendations:* Desired levels of forest management are to passively manage 100% and actively manage 0% of the area.

### **Wildlife Management:**

#### **Illinois DNR Managed Pool 16 Areas (16-W-1)**

**Rock Island County, IL**

**Mississippi River Mile: 478.3 to 458.8 R/L**

**Managed By: Illinois Department of Natural Resources**

**Acres: TBD**

**Plates: TBD**

*General Description:* The **Illinois DNR Managed Pool 16 Areas** include all/or portions of Milan Bottoms, Smith Island, Andalusia Island, Martin Island, Scisco Slough, Dead Slough, and Drury Slough. This area is managed for fish and wildlife enhancement purposes under a GP lands agreement by USFWS third party agreement to the Illinois DNR. Hunting and other public use in this area are managed in accordance with the Illinois Wildlife Code and Title 36. Developments include an EMP-HREP project, access roads, water control structures, pump station, and maintenance trails.

All areas primarily include forested and non-forested wetland community types. Forested community types include silver maple, silver maple mix, oak and hickory, cottonwood, and bottomland hardwood mix. Non-forested community types include shrub and scrub, wet meadow and marsh, and grasses and forbs.

*Future Management Recommendations:* Desired levels of forest management are to passively manage 85% and actively manage 15% of wildlife areas. Active management to reach UMRSFSP goals and objectives will include timber stand improvements.

**Iowa DNR Managed Pool 16 Areas (16-W-2)**  
**Scott and Muscatine County, IA**  
**Mississippi River Mile: 548.6 to 456.4 R/L**  
**Managed By: Iowa Department of Natural Resources**  
**Acres: TBD**  
**Plates: TBD**

*General Description:* The **Iowa DNR Managed Pool 16 Areas** include all/or portions of Wyoming Slough, Geneva Island, and Hog Island. This area is managed for fish and wildlife enhancement purposes under a GP lands agreement by USFWS third party agreement to the Iowa DNR. Hunting and other public use in this area are managed in accordance with the Iowa Wildlife Code and Title 36. These areas have no developments

All areas primarily include forested and non-forested wetland community types. Forested community types include silver maple, cottonwood, oak and hickory, and bottomland hardwoods mix. Non-forested community types include shrub and scrub, wet meadow and marsh, and grasses and forbs.

*Future Management Recommendations:* Desired levels of forest management are to passively manage 850% and actively manage 15% of wildlife areas. Active management to reach UMRSFSP goals and objectives will include tree planting and timber stand improvements.

**Vegetative Management:**

**Pool 16 Vegetative Management Areas (16-V-1)**  
**Rock Island County, IL and Scott and Muscatine County, IA**  
**Mississippi River Mile: 477.6 to 459.2 R/L**  
**Managed By: US Army Corps of Engineers**  
**Land: less than 935 acres**  
**Submerged Land: less than 377 acres**  
**Plates: TBD**

*General Description:* The **Pool 16 Vegetative Management Areas** managed by the Mississippi River Project, Natural Resource Section. Areas include all/or portions of fee title lands along the shoreline of Illinois and Iowa. Hunting and other public use in this

area are managed in accordance with the Illinois Wildlife Code, Iowa Wildlife Code, and Title 36. Developments include access roads and maintenance trails.

All areas primarily include forested and non-forested wetland community types. Forested community types include silver maple, willow and bottomland hardwoods mix. Non-forested community types include shrub and scrub, wet meadow and marsh, and grasses and forbs.

*Future Management Recommendations:* Desired levels of forest management are to passively manage 60 and actively manage 40% of vegetative areas. Active management to reach UMRSFSP goals and objectives will include timber stand improvements.

### **High Density Recreation:**

**Clark's Ferry Recreation Area (16-H-1)**  
**Address: 3860 Sunset Beach, Montpelier, IA 52759**  
**Muscatine County, IA**  
**Mississippi River Mile: 468.3 R**  
**Managed By: US Army Corps of Engineers**  
**Acres: TBD**  
**Plates: TBD**

*General Description:* The **Clarks' Ferry Recreation Area** is located off of Highway 22 on the east edge of Montpelier, IA. It is on the main channel of the Mississippi and offers quick access to many good fishing spots and island beach locations. It is also a favorite camping spot for many campers and historically has a high percentage of returning campers compared to other campgrounds. The campground contains several amenities for campers including a shower building, playground, horseshoe pits, several benches along the river, sewage dump station and multiple community water spigots. The campground provides 44 reservable sites each with a concrete pad for RV/vehicles and rocked/gravel living space, picnic table, fire ring, and 20/30/50 amp electrical service. Most of the sites can accommodate the larger RVs that are common today.

The Clark's Ferry Day Use area provides one group picnic shelter, single family picnic sites, large playground, a vault toilet, boat ramp with a courtesy dock and parking spaces.

*Future Management Recommendations:*

- Upgrade shower building.
- Replace fee booth that has been damaged by multiple flood events.
- Construct full hookup volunteer sites to support daily O&M of the campground and day use area.
- Expand the existing boat ramp parking lot to include additional parking stalls.
- Pave day use parking area.
- Construct overflow parking area within the campground to support passenger vehicles.

- Install Wi-Fi is capability if/when capability exist in the area.
- Upgrade some, if not all, campsites to full hookup.

**Shady Creek Recreation Area (16-H-2)**

**Address: 3550 Hwy 22, Muscatine, IA 52761**

**Muscatine County, IA**

**Mississippi River Mile: 464.8-465 R**

**Managed By: Corps of Engineers**

**Acres: TBD**

**Plates: TBD**

*General Description:* The **Shady Creek Recreation Area** is located off Highway 22 four miles east of Fairport, IA. The recreation is located on the main channel of the Mississippi and offers quick access to the river along with the scenic view.

The campground contains several amenities for campers including a shower building, vault toilets, playground, horseshoe pits, sewage dump station (located on the main road) and multiple community water spigots. The campground provides 53 reservable sites each with a concrete pad for RV/vehicles and rocked/gravel living space, picnic table, fire ring, and 20/30/50 amp electrical service. Most of the sites can accommodate the larger RVs that are common today.

The Shady Creek Day use area is a large day use area with lots of green space. It provides one group picnic shelter, single family picnic sites, large playground, volleyball net, horseshoe pits, waterborne comfort station and a vault toilet, boat ramp with a courtesy dock, vehicle parking spaces and vehicle with trailer parking spaces. There is also a maintained hiking trail has two trail heads on the north edge of the campground.

*Future Management Recommendations:*

- Construct additional paved day use and boat ramp trailer parking.
- Construct additional picnic sites in day use area.
- Reconstruct the entrance into the park to increase distance from railroad tracks and reduce flooding in the fee booth; construct new fee booth in new location.
- Construct full hookup volunteer sites to support daily O&M of recreation area.
- Integrate utilities into local municipal service if/when option becomes available.
- Upgrade some, if not all, campsites to full hookup.
- Install Wi-Fi is capability if/when capability exist in the area.
- Dredge boat ramp to increase depth and access for boats.
- Construct group camping area within current campground or day use area.
- Construct an office, garage and storage facilities within area to support the Muscatine Ranger Station; permanent location for staff instead of renting facilities.

**Recreation Outgrants in Pool 16**

*General Description:* The **Pool 16 Recreational Outgrant Areas** are individually outgranted areas located throughout the pool. The areas listed below are all recreation outgrants (covered under real estate documents) and not directly managed by the Corps Natural Resource Staff.

*Future Management Recommendations:* Developments at any of the locations listed above will be vetted and approved through the real estate section, per the outgrant agreements for each particular location.

### **Low Density Recreation:**

Low Density Recreation sites include a variety of areas including Cottage Site Lease areas, Limited Development Areas under the SMP, recreation outgrants, Corps managed recreation sites, and other areas.

**Andalusia Slough Recreation Area (16-L-1)**  
**Address: 14895 – 78<sup>th</sup> Avenue W, Andalusia, IL 61232**  
**Rock Island County, IL**  
**Mississippi River Mile: 470.5 L**  
**Managed By: Corps of Engineers**  
**Acres: TBD**  
**Plates: TBD**

*General Description:* The **Andalusia Slough Recreation Area** is located 2 miles west of Andalusia, IL along Hwy 92. The amenities include 6 vault toilets, picnic shelter, picnic sites, boat ramp and parking spaces, and multiple community water spigots. The area provides 16 non-reservable gravel sites each with a picnic table and fire ring.

*Future Management Recommendations:*

- Remove metal vault toilets and replace with concrete vault toilets.
- Remove the campsites that border Hwy 92 and restore to green vegetation; removal of sites due to safety, proximity to the road after the expansion and lack of camping demand of the area.

## Recreation Outgrants in Pool 16

Pool 16 Low Density Recreation							
TYPE	RIVER MILE	STATE/COUNTY	TRACT #	# IN TRACT	TOTAL ACRES	LAND USE CLASSIFICATION <sup>1</sup>	RELINQUISHED LAND USE CLASSIFICATION <sup>2</sup>
Cottage	458.70	IA/MUSCATINE	Fla-7	4	1.42	Recreation Low Dense	TBD
Cottage	458.90	IA/MUSCATINE	Fla-8	3	1.6	Recreation Low Dense	
Cottage	459.00	IA/MUSCATINE	Fla-9	6	1.89	Recreation Low Dense	
Cottage	459.70	IA/MUSCATINE	Fla-16	1	0.15	Recreation Low Dense	
Cottage	459.80	IA/MUSCATINE	Fla-15,16	1	0.6	Recreation Low Dense	
Cottage	459.90	IA/MUSCATINE	Fla-21	1	0.4	Recreation Low Dense	
Cottage	461.30	IL/ROCK ISLAND	Fl-22	1	1.7	Recreation Low Dense	
Cottage	461.40	IA/MUSCATINE	Fla-24	5	4.1	Recreation Low Dense	
Cottage	461.60	IL/ROCK ISLAND	Fl-23	2	2.4	Recreation Low Dense	
Cottage	463.80	IA/MUSCATINE	Fla-30	1	0.9	Recreation Low Dense	
Cottage	463.90	IA/MUSCATINE	Fla-31	12	5.1	Recreation Low Dense	
Cottage	464.20	IL/ROCK ISLAND	Fl-36	2	0.7	Recreation Low Dense	
Cottage	465.70	IA/MUSCATINE	Fla-37	4	1.9	Recreation Low Dense	
Cottage	466.95	IA/MUSCATINE	Fla-41	5	6	Recreation Low Dense	
Cottage	467.95	IA/MUSCATINE	Fla-43	1	7.5	Recreation Low Dense	
Cottage	468.10	IA/MUSCATINE	Fla-44	3	0.52	Recreation Low Dense	
Cottage	468.20	IA/MUSCATINE	Fla-45	1	0.7	Recreation Low Dense	
Cottage	468.25	IA/MUSCATINE	Fla-46,47	1	2	Recreation Low Dense	
Cottage	468.30	IA/MUSCATINE	Fla-48	21	20.83	Recreation Low Dense	
Cottage	469.30	IA/MUSCATINE	Fla-50	4	3.5	Recreation Low Dense	
Cottage	469.30	IA/MUSCATINE	Fla-40	1	0.8	Recreation Low Dense	
Cottage	471.40	IA/SCOTT	Fla-56	1	0.36	Recreation Low Dense	
LDA/Shoreline	458.60	IA/MUSCATINE	Fla-007	8	TBD	Recreation Low Dense	
LDA/Shoreline	459.00	IA/MUSCATINE	Fla-016	4		Recreation Low Dense	
LDA/Shoreline	459.90	IA/MUSCATINE	Fla-021	2		Recreation Low Dense	

*General Description:* The **Pool 16 Recreational Outgrant Areas** are individually outgranted areas located throughout the pool. The areas listed below are all recreation outgrants (covered under real estate documents) and not directly managed by the Corps Natural Resource Staff.

Pool 16 Recreation Outgrants						
AREA NAME	RIVER MILE	STATE/COUNTY	TRACT #	ACRES	LAND USE CLASSIFICATION <sup>1</sup>	RELINQUISHED LAND USE CLASSIFICATION <sup>2</sup>
Fairport Public Use Area	462.00	IA/MUSCATINE	Fla-24	21.34	Recreation Intensive Use	TBD
Izaak Walton League	463.20	IA/MUSCATINE	Fla-25	2.4	Recreation Intensive Use	

Rock Island Co Forest/Loud Thunder	466.10	IL/ROCK ISLAND	FI-39, 40, 41	61.61	Recreation Intensive Use	
Buffalo Shores/IA DNR	471.80	IA/SCOTT	FIa-60	8.5	Recreation Intensive Use	
Loomis Landing/Andalusia Harbor Marina	473.00	IL/ROCK ISLAND	FI-61, 66, 69	24.2	Recreation Intensive Use	

*Future Management Recommendations:* Developments at any of the locations listed above will be vetted and approved through the real estate section, per the outgrant agreements for each particular location.

### **Project Operations:**

#### **Lock & Dam 16 Area (16-O-1)**

**Address: 33109 – 102<sup>nd</sup> Ave W, Illinois City, IL 61259**

**Rock Island County, IL**

**Mississippi River Mile: 457.2 R/L**

**Managed by: Corps of Engineers**

**Acres: TBD**

**Plates: TBD**

*General Description:* The **Lock & Dam 16 Area** is located is about one mile upstream from Muscatine, IA. In 2004, the facility was listed in the National Register of Historic Places as Lock and Dam No. 16 Historic District, covering TBD acres.

The dam consists of movable and non-moveable portions. The non-moving portion of the dam starts on the shores of Iowa and ends on Hog Island where it meets the movable portions. The non-moveable portion consists of a linear earthen embankment, concrete capped, ogee spillway. The moveable portion of the dam has 12 non-submersible Tainter gates (20 feet high and 40 feet long), three submersible Tainter gates of the same dimensions, and four non-submersible roller gates (20 feet high and 80 feet long). The lock is located on the South side of the dam gates, along the Illinois shoreline. The dimensions of the lock are 110 feet wide by 600 feet long with additional provisions for an auxiliary lock.

The **Lock & Dam 16 Access Area** has an observation platform located in the lock and dam area. The building provides waterborne restrooms on the ground level. The upper level is covered and provides an excellent vantage to view barges locking through. Amenities include: benches, bulletin boards, picnic tables, benches and paved parking.

#### *Future Management Recommendations:*

- Removal of current restroom with viewing deck; beginning to find structure stresses leading to failure.
- Construct new observation deck in current building footprint.

- Construct new concrete vault toilet within the area.
- Expanding parking area to accommodate buses and camping vehicles.

### **Recreation Outgrants in Pool 16**

*General Description:* The **Pool 16 Recreational Outgrant Areas** are individually outgranted areas located throughout the pool. The areas listed below are all recreation outgrants (covered under real estate documents) and not directly managed by the Corps Natural Resource Staff.

*Future Management Recommendations:* Developments at any of the locations listed above will be vetted and approved through the real estate section, per the outgrant agreements for each particular location.

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## Navigation Pool 17

This pool includes 7,951 land acres and 3,428 water acres; total of 11,379 acres. Within the total acres of fee title there is 10,745 acres of GP lands and waters. Fee title land acres by state include: 2,121 acres in Illinois and 5,830 acres in Iowa.

### Environmentally Sensitive Areas:

#### **Port Louisa NWR–Port Louisa Division and Lake Odessa Environmentally Sensitive Area**

**Louisa County, Iowa**

**Mississippi River Mile: 434.2-441.7 R**

**Managed By: US Fish & Wildlife Service Port Louisa NWR and  
Iowa Department of Natural Resources**

**Acreage:**

**Plates:**

*General Description:* The area primarily includes forested and non-forested wetland community types. Forested community types include silver maple, cottonwood, willow, river birch, oak and hickory, and bottomland hardwoods mix. This area is managed for fish and wildlife enhancement purposes under a GP lands agreement by USFWS and by USFWS third party agreement to the Iowa DNR. Hunting and other public use in this area are managed in accordance with the Iowa Wildlife Code, Title 36, and USFWS's area specific regulations for the Upper Mississippi River NWFR. Developments include EMP-HREP projects, public boat ramps, foot bridge, water control structures, observation platforms, parking lots, water trail, access roads, and maintenance trails.

*Future Management Recommendations:* Desired levels of forest management are to passively manage 80% and actively manage 20% of the area. Active management to reach UMRSFSP goals and objectives will include tree planting, timber stand improvements, timber harvest, and prescribe burning.

IA DNR staff annually plant food plots (approximately XX acres), manipulated moist-soil vegetation, install and operate a pump (560 engine hours) to flood 45 acres of moist-soil unit, maintain 4 boat ramps, 3 boat docks, no wake buoys and signage, 6 parking areas, and 2.5 miles of access roads at Odessa WMA.

The IA DNR proposes grading and gravel resurfacing of Toolesboro access road (2.5 miles) on Odessa WMA.

The **Toolesboro Access** provides access to the river downstream of Lock & Dam 17. The area and facilities are included under the GP lands agreement by IA DNR. Facilities at this area include a two one-lane gravel small boat launching ramps and small parking lot for approximately 15 cars and trailers.

## **Wildlife Management:**

**Port Louisa NWR – Pool 17 Areas - Big Timber Division (17-W-1)**

**Louisa County, IA and Mercer County, IL**

**Mississippi River Mile: 440.6 to 446.8 R/L**

**Managed By: US Fish & Wildlife Service Port Louisa NWR**

**Acres: XXX**

**Plates: 17-1 & 17-2**

*General Description:* Areas include all/or portions of Big Timber, Otter Island, Turkey Island, Ramsey Island, and Coleman Island. These areas are within the Big Timber District management of Port Louisa NWFR. These areas are managed for fish and wildlife enhancement purposes under a GP lands agreement by USFWS. Hunting and other public use in this area are managed in accordance with the Iowa Wildlife Code, Illinois Wildlife Code, Title 36, and USFWS's area specific regulations for the Upper Mississippi River NWFR. Developments include EMP-HREP project, public boat ramp, parking lot, kiosk, access road, and maintenance trails.

All areas primarily include forested and non-forested wetland community types. Forested community types include silver maple, sycamore, oak & hickory, willow, and bottomland hardwoods mix. Non-forested community types include shrub and scrub, wet meadow and marsh, and grasses and forbs.

*Future Management Recommendations:* Desired levels of forest management are to passively manage 70 and actively manage 30% of vegetative areas. Active management to reach UMRSFSP goals and objectives will include tree planting, timber stand improvements, and timber harvest.

**Illinois DNR Managed Pool 17 Areas (17-W-2)**  
**Mercer County, IL**  
**Mississippi River Mile: 438.5 to 452.1 L**  
**Managed By: Illinois Department of Natural Resources**  
**Acres: TBD**  
**Plates: 17-1 & 17-2**

*General Description:* Areas include all/or portions of Blanchard Island, Bass Island, Barkis Island, Bogus Chute, Hail Island. This area is managed for fish and wildlife enhancement purposes under a GP lands agreement by USFWS third party agreement to the Illinois DNR. Hunting and other public use in this area are managed in accordance with the Illinois Wildlife Code and Title 36. These areas have no developments.

All areas primarily include forested and non-forested wetland community types. Forested community types include silver maple, silver maple mix, willow, and bottomland hardwood mix. Non-forested community types include shrub and scrub, wet meadow and marsh, and grasses and forbs.

*Future Management Recommendations:* Desired levels of forest management are to passively manage 80% and actively manage 20% of wildlife areas. Active management to reach UMRSFSP goals and objectives will include timber stand improvements.

### **Vegetative Management:**

**Pool 17 Vegetative Management Area (17-V-1)**  
**Muscatine and Louisa County, IA**  
**Mississippi River Mile: 449.6 to 441.3 R/L**  
**Managed By: US Army Corps of Engineers**  
**Acres: XXX**  
**Plates: 17-2**

*General Description:* Areas include all/or portions of fee title lands along the shoreline of Iowa. Hunting and other public use in this area are managed in accordance with the Iowa Wildlife Code, and Title 36. These areas have no developments.

All areas primarily include forested and non-forested wetland community types. Forested community types include silver maple, and willow. Non-forested community types include shrub and scrub, wet meadow and marsh, and grasses and forbs.

*Future Management Recommendations:* Desired levels of forest management are to passively manage 100% and actively manage 0% of vegetative areas.

## **Low Density Recreation:**

Low Density Recreation sites include a variety of areas including Cottage Site Lease areas, Limited Development Areas under the SMP, recreation outgrants, Corps managed recreation sites, and other areas.

### **Blanchard Island Recreation Area (17-L-1)**

**Address: 34000 – 176<sup>th</sup> St W, New Boston, IL 61272**

**Rock Island County, IL**

**Mississippi River Mile: 449.6-449.9**

**Managed By: Corps of Engineers**

**Acres: TBD**

**Plates: 17-1**

*General Description:* The **Blanchard Island Recreation Area** is located downstream of Muscatine on the Illinois side. This area's amenities include 4 vault toilets, multiple community water spigots, 33 non-reservable gravel campsites, gravel parking lot, gravel roads, concrete boat ramp and dump station.. This area floods frequently and limits the amount of development that can occur.

#### *Future Management Recommendations:*

- Remove the metal vault toilets and replace with a concrete vault toilet.
- Redesign campsites within area to accommodate traffic flow and visitor use.
- Concrete 5-10 campsites and pave roads to reduce the amount of O&M after flood events.
- Remove underutilized portions of the area and campsites.

### **Kilpeck Landing Access Area (17-L-2)**

**Address: 8314 – 172<sup>nd</sup> Street, Muscatine, IA 52761**

**Louisa County, IA**

**Mississippi River Mile: 446.7 R**

**Managed By: Corps of Engineers**

**Acres: TBD**

**Plates: 17-1 & 17-2**

*General Description:* The **Kilpeck Landing Recreation Area** is located downstream of Muscatine on the Iowa side. It offers a concrete boat ramp and gravel parking along with 5 picnic sites. This recreation area is very busy with hunters and fishermen launching boats during the designated seasons. It also is a popular location for many to shore fish.

#### *Future Management Recommendations:*

- Expand current parking lot and pave the gravel lot.
- Install a concrete vault toilet.
- Install a courtesy dock at the boat ramp.

## Recreation Outgrants in Pool 17

*General Description:* The **Pool 17 Recreational Outgrant Areas** are individually outgranted areas located throughout the pool. The areas listed below are all recreation outgrants (covered under real estate documents) and not directly managed by the Corps Natural Resource Staff.

Pool 17 Recreation Outgrants						
AREA NAME	RIVER MILE	STATE/COUNTY	TRACT #	ACRES	LAND USE CLASSIFICATION <sup>1</sup>	RELINQUISHED LAND USE CLASSIFICATION <sup>2</sup>
Snivelys' Access/ Iowa DNR	437.00	IA/LOUISA	Fla-127 ET AL	97.1	Recreation Intensive Use	
Flaming Prairie/Louisa Co Conservation Board	443.00	IA/LOUISA	Fla-14	0.8	Recreation Intensive Use	
Crosses Corner; Putney's Landing & Big River State Park Riverview Camp; Delebar; Henderson Access/Illinois DNR	446.00	IL/HENDERSON & MERCER	FI-13; RW-1; FI-067; FI- 083, FI-084, FI-085, FI- 088	191.23	Recreation Intensive Use	

Pool 17 Low Density Recreation							
TYPE	RIVER MILE	STATE/COUNTY	TRACT #	# IN TRACT	TOTAL ACRES	LAND USE CLASSIFICATION <sup>1</sup>	RELINQUISHED LAND USE CLASSIFICATION <sup>2</sup>
Cottage	446.50	IA/LOUISA	Fla-74	1	1	Recreation Low Dense	
LDA/SHORELINE	442.30	IA/LOUISA	Fla-13A	1		Recreation Low Dense	

*Future Management Recommendations:* Developments at any of the locations listed above will be vetted and approved through the real estate section, per the outgrant agreements for each particular location.

## **Project Operations:**

### **Lock & Dam 17 Area (17-O-1)**

**Address: 173 Lock & Dam Road, New Boston, IL 61272**

**Mercer County, Illinois**

**Mississippi River Mile: 437.1 L**

**Managed by: Corps of Engineers**

**Acres:**

**Plates: 17-2**

*General Description:* The **Lock & Dam 17 Area** stretches across a wide portion of river where there are several marshy islands. The lock and dam levee expands to the levee that surrounds Lake Odessa on the Iowa shore. In 2004, the facility was listed in the National Register of Historic Places as Lock and Dam No. 17 Historic District, covering 86.9 acres.

The lock is 110 feet wide by 600 feet long with additional provisions for an auxiliary lock. The movable dam has eight submersible Tainter gates (20 feet high by 64 feet long) and three submersible roller gates (20 feet high by 100 feet long). The dam system also includes one non-overflow earth and sand-filled dike; two transitional dikes; and a submersible earth and sand-filled dike.

**Lock & Dam 17 Recreation Area** is located adjacent to Lock 17 and has an observation platform located in the lock and dam area.

*Future Management Recommendations:*

## Navigation Pool 18

This pool includes 6,844 land acres and 3,270 water acres; total of 10,114 acres. Within the total acres of fee title there is 8,356 acres of GP lands and waters. Fee title land acres by state include: 3,535 acres in Illinois and 3,310 acres in Iowa.

### **Environmentally Sensitive Areas:**

#### **Keithsburg Environmentally Sensitive Area (18-E-1)**

**Mercer County, Illinois**

**Mississippi River Mile: 427.8-431.5 L**

**Managed By: US Fish & Wildlife Service Port Louisa NWR – Keithsburg Division**

**Acreage:**

**Plates:**

*General Description:* The area primarily includes forested and non-forested wetland community types. Forested community types include silver maple, river birch, oak and hickory, and bottomland hardwoods mix. This area is managed for fish and wildlife enhancement purposes under a GP lands agreement by USFWS. Hunting and other public use in this area are managed in accordance with the Illinois Wildlife Code, Title 36, and USFWS's area specific regulations for the Upper Mississippi River NWFR. Developments include a public boat ramp, water control structures, parking lots, kiosk, access roads, and maintenance trails.

*Future Management Recommendations:* Desired levels of forest management are to passively manage 60% and actively manage 40% of the area. Active management to reach UMRSFSP goals and objectives will include tree planting, timber stand improvements, and EMP-HREP project.

#### **Huron Island Environmentally Sensitive Area (18-E-2)**

**Des Moines County, Iowa**

**Mississippi River Mile: 421.7-425.3 R**

**Managed By: Iowa Department of Natural Resources**

**Acreage:**

**Plates:**

*General Description:* The area primarily includes forested and non-forested wetland community types. Forested community types include silver maple, river birch, oak and hickory, and bottomland hardwoods mix. This area is managed for fish and wildlife enhancement purposes under a GP lands agreement by USFWS third party agreement to the Iowa DNR. Hunting and other public use in this area are managed in accordance with the Iowa Wildlife Code and Title 36. This area has no developments.

*Future Management Recommendations:* Desired levels of forest management are to passively manage 80% and actively manage 20% of the area. Active management to

reach UMRSFSP goals and objectives will include tree planting, timber stand improvements, and EMP-HREP project.

### **Wildlife Management:**

#### **Illinois DNR Managed Pool 18 Areas (18-W-1)**

**Mercer and Henderson County, IA**

**Mississippi River Mile: 409.8 to 434.2 L**

**Managed By: Illinois Department of Natural Resources**

**Acres:**

**Plates:**

*General Description:* The **Illinois DNR Managed Pool 18 Areas** include all/or portions of Boston Bay, Mapes Island, Willow Bar Island, Snipe Island, Campbell Chute, Benton Bay, Benton Island, Mill Island, and Oquawka Unit. This area is managed for fish and wildlife enhancement purposes under a GP lands agreement by USFWS third party agreement to the Illinois DNR. Hunting and other public use in this area are managed in accordance with the Illinois Wildlife Code and Title 36. These areas do not have any developments.

All areas primarily include forested and non-forested wetland community types. Forested community types include silver maple, silver maple mix, willow, oak & hickory, and bottomland hardwood mix. Non-forested community types include shrub and scrub, wet meadow and marsh, and grasses and forbs.

*Future Management Recommendations:* Desired levels of forest management are to passively manage 80% and actively manage 20% of wildlife areas. Active management to reach UMRSFSP goals and objectives will include timber stand improvements and an EMP-HREP project.

#### **Iowa DNR Managed Pool 18 Areas (18-W-2)**

**Louisa and Des Moines County, IA**

**Mississippi River Mile: 409.7 to 434.3 R**

**Managed By: Iowa Department of Natural Resources**

**Acres: TBD**

**Plates: 17-2**

*General Description:* Areas include all/or portions of Brass Island, Corsepilus Island, Blackhawk Island, Garner Island, Kingston Bar, Cody Islands, Charlie Island, Johnson Island, Camp Island, Jacoby Island, Oquawka Island, Furnald Island, and Rag Island. This area is managed for fish and wildlife enhancement purposes under a GP lands agreement by USFWS third party agreement to the Iowa DNR. Hunting and other public use in this area are managed in accordance with the Iowa Wildlife Code and Title 36. Developments include an access road.

All areas primarily include forested and non-forested wetland community types. Forested community types include silver maple, silver maple mix, cottonwood, willow, oak & hickory, and bottomland hardwood mix. Non-forested community types include shrub and scrub, wet meadow and marsh, and grasses and forbs.

*Future Management Recommendations:* Desired levels of forest management are to passively manage 85% and actively manage 15% of wildlife areas. Active management to reach UMRSFSP goals and objectives will include tree planting, timber stand improvements, and timber harvest.

### **Vegetative Management:**

**Pool 18 Vegetative Management Areas (18-V-1)**  
**Mercer and Henderson County, IL and Des Moines County, IA**  
**Mississippi River Mile: 410.2 to 432.8 R/L**  
**Managed By: US Army Corps of Engineers**  
**Acres:**  
**Plates:**

*General Description:* Areas include all/or portions of fee title lands along the shoreline of Illinois and Iowa. Hunting and other public use in this area are managed in accordance with the Illinois Wildlife Code, Iowa Wildlife Code, and Title 36. Developments include an access road.

All areas primarily include forested and non-forested wetland community types. Forested community types include silver maple, willow, and bottomland hardwood mix. Non-forested community types include shrub and scrub, wet meadow and marsh, and grasses and forbs.

*Future Management Recommendations:* Desired levels of forest management are to passively manage 100% and actively manage 0% of vegetative areas.

### **Low Density Recreation:**

Low Density Recreation sites include a variety of areas including Cottage Site Lease areas, Limited Development Areas under the SMP, recreation outgrants, Corps managed recreation sites, and other areas.

**Ferry Landing Recreation Area (18-L-1)**  
**Address: 6990 County Road X71, Oakville, IA 52646**  
**Louisa County, IA**  
**Mississippi River Mile: 4**  
**Managed By: Corps of Engineers**  
**Acres: TBD**  
**Plates: TBD**

*General Description:* The **Ferry Landing Recreation Area** is located at the mouth of the Iowa River. The area provides **18** non-reservable campsites with a picnic table and fire ring. A port-a-pot is typically provided during the recreation season. Facilities include a concrete boat ramp, gravel trailer parking area, and gravel road into the area. This area floods frequently and limits the amount of development that can occur.

*Future Management Recommendations:*

- Install a concrete vault toilet.
- Reduce amount of area available for camping due to low visitor usage and return the unused area to desired vegetation.
- Dredge boat ramp to increase depth and access for boats.
- Pave the roads and parking lot within the area.

**Recreation Outgrants in Pool 18:**

Pool 18 Low Density Recreation							
TYPE	RIVER MILE	STATE/COUNTY	TRACT #	# IN TRACT	TOTAL ACRES	LAND USE CLASSIFICATION <sup>1</sup>	RELINQUISHED LAND USE CLASSIFICATION <sup>2</sup>
Cottage	417.70	IL/HENDERSON	FI-67	7	4.53	Recreation Low Dense	
Cottage	418.20	IL/HENDERSON	FI-69	13	9.2	Recreation Low Dense	
Cottage	419.00	IL/HENDERSON	FI-71	11	0.57	Recreation Low Dense	
Cottage	419.00	IL/HENDERSON	FI-70	4	2.58	Recreation Low Dense	
Cottage	419.00	IL/HENDERSON	FI-71	4.76	0.45	Recreation Low Dense	
Cottage	419.40	IA/DES MOINES	FIa-19	4	0.8	Recreation Low Dense	
Cottage	419.90	IL/HENDERSON	FI-72	2	1.43	Recreation Low Dense	
Cottage	420.00	IL/HENDERSON	FI-73	1	0.65	Recreation Low Dense	
Cottage	420.20	IA/DES MOINES	FIa-19	3	2.86	Recreation Low Dense	
Cottage	421.00	IL/HENDERSON	FI-75	1	0.62	Recreation Low Dense	
Cottage	421.20	IL/HENDERSON	FI-75, 78	1	1	Recreation Low Dense	
Cottage	421.90	IA/DES MOINES	FIa-21	1	1	Recreation Low Dense	
Cottage	422.50	IL/HENDERSON	FI-82	4	4.9	Recreation Low Dense	
Cottage	422.90	IL/HENDERSON	FI-88	1	0.53	Recreation Low Dense	
Cottage	423.00	IA/DES MOINES	FIa-26	14	4.4	Recreation Low Dense	
Cottage	423.10	IA/DES MOINES	FIa-36	1	0.25	Recreation Low Dense	
Cottage	425.00	IA/DES MOINES	FIa-29,30	1	0.5	Recreation Low Dense	
LDA/SHORELINE	418.30	IL/HENDERSON	FI-069	4		Recreation Low Dense	
LDA/SHORELINE	419.30	IL/HENDERSON	FI-070	14		Recreation Low Dense	
LDA/SHORELINE	419.30	IL/HENDERSON	FI-071	4		Recreation Low Dense	
LDA/SHORELINE	420.20	IL/HENDERSON	FI-074	15		Recreation Low Dense	
LDA/SHORELINE	421.40	IL/HENDERSON	FI-075	8		Recreation Low Dense	
LDA/SHORELINE	421.30	IL/HENDERSON	FI-078	1		Recreation Low Dense	
LDA/SHORELINE	421.60	IL/HENDERSON	FI-079	3		Recreation Low Dense	

NON-LDA SHORELINE	425.70	IL/MERCER	FI-095	12		Wildlife Management/Forest Reserve (GP)	
NON-LDA SHORELINE	431.80	IL/MERCER	FI-107	6		Wildlife Management/Forest Reserve (GP)	

Pool 18 Recreation Outgrants						
AREA NAME	RIVER MILE	STATE/COUNTY	TRACT #	ACRES	LAND USE CLASSIFICATION <sup>1</sup>	RELINQUISHED LAND USE CLASSIFICATION <sup>2</sup>
Hawkeye Dolby & Casey Barrow or Dahlsten's Landing/Des Moines Co Cons. Board	421.70	IA/DES MOINES	FIa-12, FIa-21	11.98	Recreation Intensive Use	
Wykert's Landing/Louisa Co Cons. Board	426.50	IA/LOUISA	FIa-43, FIa-44	0.48	Recreation Intensive Use	

*General Description:* The **Pool 18 Recreational Outgrant Areas** are individually outgranted areas located throughout the pool. The areas listed below are all recreation outgrants (covered under real estate documents) and not directly managed by the Corps Natural Resource Staff.

*Future Management Recommendations:* Developments at any of the locations listed above will be vetted and approved through the real estate section, per the outgrant agreements for each particular location.

## **Project Operations:**

### **Lock & Dam 18 Area (18-O-1)**

**Address: Rt #1 Box 205, Gladstone, IL 61437**

**Henderson County, Illinois**

**Mississippi River Mile: 410.5 L**

**Managed by: Corps of Engineers**

**Acres:**

**Plates:**

*General Description:* The **Lock & Dam 18 Area** is located outside of Gladstone, IL. The Oquawka State Wildlife Refuge is adjacent to the lock and dam complex on the Illinois shore. In 2004, the facility was listed in the National Register of Historic Places as Lock and Dam No. 18 Historic District, covering 204.9 acres, 1 building, 4 structures and 4 objects.

The Lock is 110 feet wide by 600 feet long with additional provisions for an auxiliary lock. The dam is composed of 14 submersible Tainter gates (20 feet high by 60 feet long) and three submersible roller gates (20 feet high by 100 feet long). The dam includes a submersible earth and sand-filled dike, a non-overflow earth and sand-filled dike, and two transition dikes.

The **Lock & Dam 18 Access Area** is located adjacent to Lock 18. There is an observation platform located in the lock and dam area.

*Future Management Recommendations:* Construct observation deck for wildlife and navigation viewing.

## Navigation Pool 19

This pool includes TBD land acres and TBD water acres; total of TBD acres. Within the total acres of fee title there is 0 acres of GP lands and waters. Fee title land acres by state include: TBD XXXX acres in Illinois and TBD acres in Iowa.

### Project Operations:

#### **Lock & Dam 19 Area (19-O-1)**

**Address: 523 North Water Street, Keokuk, IA 52632**

**Lee County, Iowa**

**Mississippi River Mile: 364.2 R**

**Managed by: Corps of Engineers**

**Acres:**

**Plates:**

*General Description:* The **Lock & Dam 19 Area** is located in Keokuk, IA. The lock is owned and operated by the U.S. Army Corps of Engineers. The dam is owned and operated by Ameren Missouri. The lock and dam was created to navigate pass the Des Moines Rapids which had effectively been the northern barrier for traffic on the Mississippi until efforts began in 1837 to address the Mississippi's 2 ft 6 in depth in the rapids. In 2004, the facility was listed in the National Register of Historic Places as Lock and Dam No. 19 Historic District, covering 1,605 acres.

The main lock is 1,200 feet long and 110 feet wide with a lift of just over 38 feet and large enough to handle a full-length tow of barges. The movable portion of the dam is 4,620 feet long with 119 separate 30 feet rectangular, steel-skin plated, sliding gates. The gates are either installed or removed and river flow is controlled by the number of gates installed. They are removed by a gantry crane that travels on the service bridge above the dam. The Power House and spillways are owned and operated by Ameren Missouri and has a 134 MW capacity. The powerhouse contains 15 generators.

**Lock & Dam 19 Recreation Area** is located adjacent to Lock 19. The paved entrance road through the area leads to the Lock and Dam entrance. Paved parking spaces are available for visitors within the area. The area has an observation platform on top of waterborne restrooms and benches for navigation and wildlife viewing.

*Future Management Recommendations: None*

### Recreation Outgrant in Navigation Pool 19:

*General Description:* The **Navigation Pool 19 Recreational Outgrant Area** is an individually outgranted area. The area listed below is the only recreation outgrant (covered under real estate documents) in this navigation pool and is not directly managed by the Corps Natural Resource Staff.

Pool 19 Recreation Outgrants						
AREA NAME	RIVER MILE	STATE/COUNTY	TRACT #	ACRES	LAND USE CLASSIFICATION <sup>1</sup>	RELINQUISHED LAND USE CLASSIFICATION <sup>2</sup>
City of Keokuk/bicycle & hiking trail on LD 19 site at lower parking area	364.00	IA/LEE	A-101-3	0.03	Recreation Intensive Use	

*Future Management Recommendations:* Developments at any of the locations listed above will be vetted and approved through the real estate section, per the outgrant agreements for each particular location.

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