

South Quincy Drainage & Levee District  
P.O. Box 746  
Quincy, IL 62301

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November 18, 2014

U.S. Army Corps of Engineers  
Attn: CECW-CE (Lisa Kiefel)  
441 G Street NW.  
Washington, D.C. 20314-1000

RE: Section 7001 of the Water Resources Reform and Development Act of 2014  
Levee Improvement for the South Quincy Drainage & Levee District

Dear Ms. Kiefel:

The South Quincy Drainage & Levee District appreciates the opportunity to provide a Section 7001 Proposal in accordance with the Water Resources Reform and Development Act of 2014. The attached proposal describes our proposed levee modification project.

In short, our levee system was first improved as part of the 1954 Flood Control Act. Further authorized improvements were made in 1987. We wish to improve our levee to the 500-year level of protection, to provide additional protection for our landowners and many commercial and industrial businesses. Our District area has experienced 18 major flood events since 1944. The cost of flood fighting and levee rehabilitation has led to our need to permanently improve our levee system. The proposed improvement would potentially reduce these costs that are typically compensated by FEMA or through the PL84-99 USACE program.

An improvement to our levee system and surrounding levee systems (as recommended by the Mississippi River Commission in the Upper Mississippi Comprehensive Plan) would increase protection to human health, and strengthen the local, regional, and national economies. Our District alone has prevented approximately \$3.44 billion in damages to infrastructure, property, and agriculture since 1973. If combined with the other Districts studied in the Comp Plan, the importance to our national economy becomes apparent.

Our District is willing to take on the expense for this project, but wish to have federal approval before proceeding. Again, we appreciate being able to submit this proposal and look forward to working with you in the future.

As always, if you have any questions please do not hesitate to contact us.

Sincerely,

SOUTH QUINCY DRAINAGE & LEVEE DISTRICT



Bob Breckenkamp, Chairman

C: Senator Richard Durbin  
Senator Mark Kirk  
Representative Aaron Schock

Enclosure: Section 7001 Proposal for Levee Improvement, Location/Fact Map, Letters of Support

**Non-Federal Interest:** South Quincy Drainage & Levee District is the project sponsor and sole project contributor. However, other local, non-federal interests have contributed to this project previously.

**Proposed Project:** The proposed project is a modification to an existing United States Army Corps of Engineers project, the South Quincy Drainage & Levee District's levee. The levee was federally improved as a part of the 1954 Flood Control Act (House Document 281/83/2) and then improved a second time under House Document 99/167/2. The proposed project would improve the existing levee to reestablish an approximate 500-year design. The 500-year design would be sufficient to meet all requirements and retain FEMA certification, plus additional consideration due to uncertainties in climate change. This improvement would require additional sand and earthen material to raise the levee footprint. The levee would be improved on the landside of the levee, retaining its current riverside configuration. The project will include permitting work, assessment of environmental impacts, and right-of-way. This proposed improvement would be a frequency based design, meaning that if/when the flow frequency profiles were to change the levee could be modified to retain its 500-year level of protection, plus a critical levee freeboard of five (5) feet.

**Project Purpose:** The South Quincy Drainage & Levee District (District) is located in Adams County, along the east bank of the Mississippi River from River Mile 317.8 to 325.4. The South Quincy Drainage & Levee District was established in 1913. The District was established to protect the 6,406 acres of prime farmland, and aid in the reduction of waterborne disease. The original levees were improved as part of the 1954 Flood Control Act and the subsequent improvements of the 1950s and 1960s and the levees were improved a second time under House Document 99/167/2 in the 1980s.

The District's original levee improvement was based upon pre-1950s methodologies and datasets. Since that time, new data has become available and the new flood trends that have been experienced. The current data indicates that at the nearest gauge, since 1944, the odds of a flood event occurring that exceeds major flood stage are approximately 1 in 4 (~18 events). If this dataset is condensed to the past 10 years the odds jump to 1 in 2.5 (~4 events).

The District flood fights during significant flood events, like 1993 and 2008, by sandbagging where necessary. When the flooding subsides, Federal Emergency Management Agency (FEMA) funding may be applied for to cover flood fighting expenses. If flood damages occur, then the District would apply for funding from USACE under Public Law 84-99 for repairs. According to USACE MVR, the PL84-99 expenses for 2013 levee repairs were approximately \$2,345,000 (2013 costs). These damages do not include any FEMA or local expenses incurred for flood fighting, nor do they include damages to other infrastructure or farmland.

The South Quincy Drainage District provides a significant economic benefit to its surrounding region. It has been estimated by USACE MVR that the District has prevented approximately \$3,442,972,100 in damages since 1973. The levee protects critical aspects of the local economy, and if lumped together with the other Districts that need improvements in this region, can sum to significant regional or even national economic impact. South Quincy has been selected for a new Mid-America Intermodal Authority Port project along M-35, with funding for design provided by the State of Illinois.

The proposed project is within the recommendations of the Mississippi River Commission's (MRC) for the Upper Mississippi River Comprehensive Plan UMRCP), dated August 14, 2008.

**Project Estimate:** Approximately \$8,800,000, which includes permitting, engineering, and construction activities.

**Project Benefits:** The population located behind this levee is approximately 250 inhabitants. The proposed project would not only protect this population, but also protect approximately 6.6 miles of State and County Highways, 5.3 miles of railroads, significant industrial/commercial development, and residences. The proposed project would provide additional protection for human health and these roadways, railways, and businesses beyond the existing estimated annual damages prevented of approximately \$86 million (value estimated from USACE MVR calculations).

This District is a portion of the Upper Mississippi River Basin Levee System, which was found to provide direct or indirect protection to major roadway and railway bridges that cross the Mississippi or Illinois Rivers. A study entitled *Detour and Transportation Infrastructure Costs Due to a Major Flood Event on the Upper Mississippi and Illinois Rivers* by the Center for Transportation Research at the University of Tennessee found that the total costs of detour, road damage, and highway damage due to a major flood event was \$1.027 billion. This District provides a portion of this transportation benefit.

**Project Support:** The District's Board supports this project and other levee and drainage districts in the surrounding area are supportive and seeking their own improvements, in accordance with the UMRCP.

**Project Cost Share:** No federal cost share required. Project planned at 100% local sponsor cost. However, if funding is made available under the National Levee Safety Act (Title IX of WRDA 2007), the Comprehensive Plan (Section 459 of WRDA 1999), or other USACE funding, it would be of great assistance to improve public health and safety for the Upper Mississippi River.

**Project Letter of Support:** See attached letter from the District Commissioners and other letters of support.

Quincy, IL  
Pop. 40,633

## LEVEE FACTS

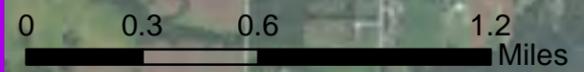
South Quincy Drainage and Levee District  
Adams County, IL

Established: 1913  
Last Improved: 1987  
Current Level of Protection: 300-Year  
Material: Sand with a Clay Foundation

Mississippi River Miles: 317.8 to 325.4  
Total Levee Miles: 8.8  
Total Acres Protected: 6,406  
(57% Cultivated Crops, 17% Woody Wetlands, 17% Developed, 9% Other)

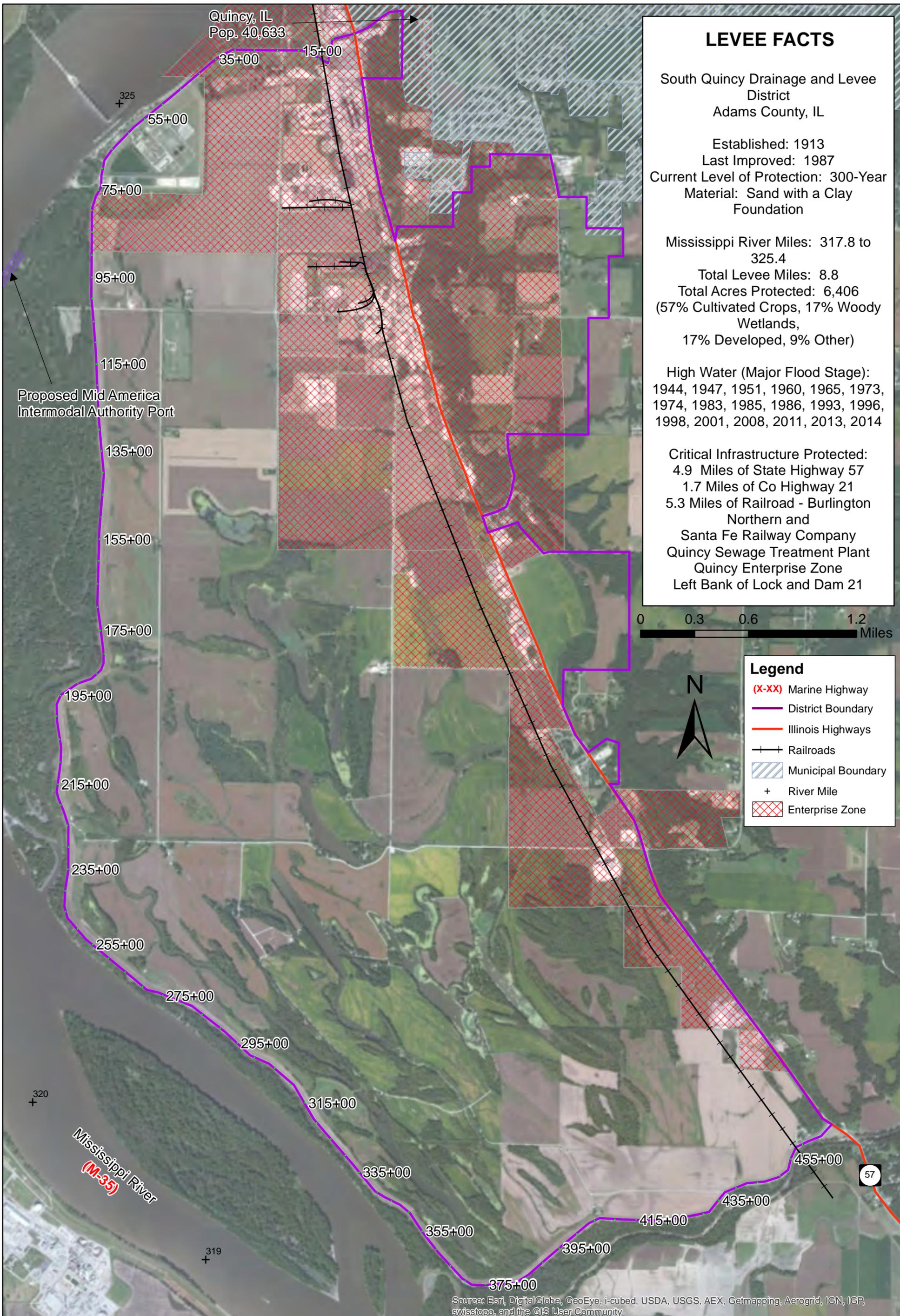
High Water (Major Flood Stage):  
1944, 1947, 1951, 1960, 1965, 1973, 1974, 1983, 1985, 1986, 1993, 1996, 1998, 2001, 2008, 2011, 2013, 2014

Critical Infrastructure Protected:  
4.9 Miles of State Highway 57  
1.7 Miles of Co Highway 21  
5.3 Miles of Railroad - Burlington Northern and Santa Fe Railway Company  
Quincy Sewage Treatment Plant  
Quincy Enterprise Zone  
Left Bank of Lock and Dam 21



### Legend

- (X-XX) Marine Highway
- District Boundary
- Illinois Highways
- Railroads
- ▨ Municipal Boundary
- + River Mile
- ▨ Enterprise Zone



Proposed Mid America Intermodal Authority Port

Mississippi River  
(M-35)

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

SHEET 1	GENERAL LOCATION	SOUTH QUINCY DRAINAGE AND LEVEE DISTRICT
	SHEET TITLE	P.O. BOX 746 QUINCY, IL 62306
DRAWING DATE	PROJECT NO.	14-0913
DRAWING DATE	11/17/2014	

SCALE: 1 INCH = 1 MILE	DESIGNED	DRAWN	NO.	APPR.	REVISION DESCRIPTION	DATE
WEEK	WEEK	WEEK				
FIELD	FIELD BOOK					
CHECKED	CHECK DATE					
FILE NAME	FULL SCALE DRAWING SIZE: 22" x 34"					
XXX	© COPYRIGHT 2014. These documents shall not be used for any purpose or project for which it is not intended. Klingner & Associates P.C. and their Divisions shall be indemnified by the client and held harmless from all claims, damages, liabilities, losses and expenses, including attorney's fees and costs arising out of such misuse or reuse of the documents. In addition, unauthorized reproduction of these documents, in part or as a whole, is prohibited.					

**KLINGNER & ASSOCIATES, P.C.**  
Engineers • Architects • Surveyors

616 North 24th Street, Quincy, IL  
4510 Paris Gravel Road, Hannibal, MO  
610 N. 4th Street, Suite 100, Burlington, IA  
49 North Prairie Street, Galesburg, IL

Ph 217.223.3670 • Fax 217.223.3603  
Ph 573.221.0020 • Fax 573.221.0012  
Ph 319.752.3603 • Fax 319.752.3605  
Ph 309.342.4042 • Fax 309.341.3781

Internet Address: [www.klingner.com](http://www.klingner.com)

# ADAMS COUNTY HIGHWAY DEPARTMENT

Office of  
COUNTY ENGINEER

P.O. Box 3797  
101 North 54<sup>th</sup> Street, Quincy, Illinois 62305-3797

James R. Frankenhoff, P.E.  
County Engineer

Telephone 217-223-0614  
Fax Number 217-223-9418

November 26, 2014

U.S. Army Corps of Engineers  
Attn: CECW-CE (Lisa Keifel)  
441 G Street NW  
Washington, DC 20314-1000

RE: Section 7001 of the Water Resources Reform and Development Act of 2014

Dear Ms. Keifel,

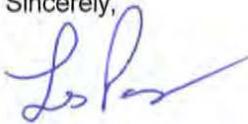
On behalf of the County of Adams, Illinois, the Adams County Highway Department and the Township of Melrose in Adams County, Illinois, we send this letter of support for the South Quincy Drainage and Levee District's proposal in accordance with the Water Resources Reform and Development Act of 2014.

The South Quincy Drainage and Levee District was formed in 1944 and has since experienced 18 major Mississippi River flood events to date. Major improvements have been made to the levee system in 1954 and again in 1987, but those improvements have not been enough to provide the level of protection needed. Improvements to the levee system to bring it to the 500-year flood event would provide the much needed protection for the existing industries, commercial businesses and the agricultural land within the District. An upgrade to a 500-year levee would also provide protection for the public infrastructure within the District which includes not only the road network, but also a County owned rail spur and municipal sanitary and water systems.

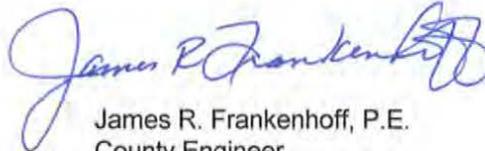
It is obvious that any improvement would protect the existing industries, commercial business and public infrastructure. What the project will also do is make the area within the District more enticing for expansion of the existing industrial base and attractive to new industry and business investment. This would then strengthen our local and regional economic base.

Given the benefits of a 500-year levee to the County and Township, and if the South Quincy Drainage and Levee District is willing and able to take on the expenses of a project of this magnitude, we ask that federal approval be given to such an undertaking.

Sincerely,



Les Post  
Chairman  
Adams County Board



James R. Frankenhoff, P.E.  
County Engineer



Dave Bockhold  
Supervisor  
Melrose Township

# CITY OF QUINCY

KYLE A. MOORE  
MAYOR

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CITY HALL -- 730 MAINE  
QUINCY, IL 62301-4056  
(217) 228-4545

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November 24, 2014

U.S. Army Corp of Engineers  
Attn: CECW-CE (Lisa Keifel)  
441 G Street NW  
Washington, DC 20314-1000

RE: Section 7001 of the Water Resources Reform and Development Act of 2014

Dear Ms. Kiefel:

On behalf of the City of Quincy, Illinois I send this letter of support of the South Quincy Drainage and Levee District's proposal in accordance with the Water Resources Reform and Development Act of 2014.

The South Quincy Drainage and Levee District began in 1944 and as experienced 18 major flood events during that time. Major improvements were made in 1954 and 1987, but they are not enough. The results of improving the levee system to the 500-year level of protection will provide protection for our agricultural community as well as many commercial and industrial businesses.

This improvement to area levee systems would provide protection to human health and safety. It would also strengthen our local and regional economy as well as the national economy by preventing crop destruction and detours and damage to the IL 57. Since 1973 the South Quincy Drainage and Levee District's work has prevented approximately \$3.44 billion in damage to infrastructure, property and agriculture.

The South Quincy Drainage and Levee District is willing to take on the expense for this project, but need to have federal approval they can proceed. We hope that you will consider this proposal that is so important to the City of Quincy and this region.

Sincerely,

Kyle A. Moore  
Mayor

KAM:vle



## Mid-America Port Commission

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Board of  
Commissioners

December 2, 2014

**Chairman:**  
Douglas H. Aeilts

United States Army Corps of Engineers  
Attn: CECW-CE (Lisa Kiefel)  
441 G Street NW  
Washington, D.C. 20314-1000

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Kiley Miller

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**Board Members:**  
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Norris Hinton  
Gerald Jenkins  
Mike McLaughlin  
Dan Wiedemeier

RE: Sec. 7001 of the Water Resources Reform and Development Act of 2014  
Support for South Quincy Levee & Drainage District Improvements

Dear Ms. Kiefel:

We recently became aware that under Section 7001 of the Water Resources Reform and Development Act (WRDA 2014) a non-federal interest may provide a proposal to modify an existing federal project. We would like to offer our support for levee improvements in the Upper Mississippi River Basin.

The Mid-America Port Commission was established through a three-state compact in 1999 by Illinois, Iowa and Missouri. This is the only three-state port compact in the United States. Our objectives include the development of an intermodal infrastructure including rail, highway and ports to provide access for regional businesses to the global market

As barge shipment is the most economical and environmentally friendly means a critical part of our intermodal infrastructure will be near and connected to the Mississippi River. The ability to provide a high level of protection from r flooding is vital to the existing and future development in our three-state region. A protection level that is frequency based would further attract economic growth and increase safety levels for existing and future developers.

The ability to provide our recommendation for improvements to the Upper Mississippi River levees is very much appreciated. We hope that the economic resources of this region are realized and these Section 7001 proposals for improvements are taken into full consideration.

Sincerely,

Executive Director

*Mid-America Port Commission*

300 Civic Center Plz, Ste 256  
Quincy, Illinois 62301-4139

Phone: (217) 222-3111  
Fax: (217) 231-2030

Email: [info@midamericaport.com](mailto:info@midamericaport.com)  
[www.midamericaport.com](http://www.midamericaport.com)



Mid-America Intermodal Authority Port District

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H.O. Brownback  
Max Edlen  
Donald Griffiths  
Charles "David" Hood  
Gerald Jenkins  
Blake Roderick

Treasurer

Charles Bell

Secretary

Megan Backs

December 2, 2014

United States Army Corps of Engineers  
Attn: CECW-CE (Lisa Kiefel)  
441 G Street NW  
Washington, D.C. 20314-1000

RE: Sec. 7001 of the Water Resources Reform and Development Act of 2014  
Support for South Quincy Levee & Drainage District Improvements

Dear Ms. Kiefel:

We recently became aware that under Section 7001 of the Water Resources Reform and Development Act (WRRDA 2014) a non-federal interest may provide a proposal to modify an existing federal project. We would like to offer our support for levee improvements in the Upper Mississippi River Basin. Most important to our organization are improvements to the South Quincy Levee & Drainage District.

The Mid-America Intermodal Authority Port District is an 11 county Illinois port district encompassing both the Illinois and Upper Mississippi rivers. Our organization is in process of developing an intermodal port and supporting infrastructure within the South Quincy Levee District for an industrial park with access over the levee to a port located along the South Quincy levee on the Mississippi River. This port will be intermodal based upon the site's proximity to four-lane highways, regional airports, railroads, and the Mississippi River.

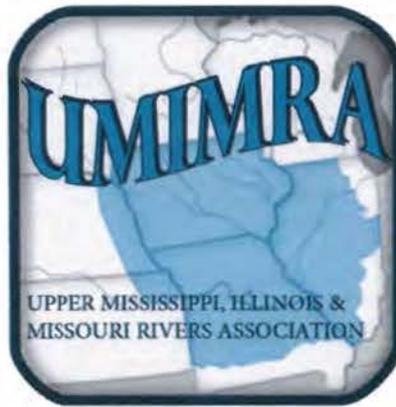
The ability to provide a high level of protection from Mississippi River flooding is vital to the existing and future development in this area. The South Quincy levee has been operated and maintained to a very high standard, which was a key contributor in the selection of this site. The ability to easily adjust it if flood frequency increases is critical for further development.

The State of Illinois recently provided \$1.3 million towards port planning and design. This is a significant investment by the State of Illinois and reinforces the fact that development within the South Quincy District is important to the State's and Region's economy. We hope that the economic resources of this region are realized and these Section 7001 proposals for improvements are taken into full consideration.

Sincerely,

Executive Director

**Meagan Kaiser**  
*Executive Director*  
**Michael Klingner**  
*Chairman, Illinois*  
**Vicki Stoller**  
*Vice Chairman, Iowa*  
**Dianne Barnett**  
*Treasurer, Illinois*  
**David McMurray**  
*Executive Committee, Iowa*  
**John Winkelman**  
*Executive Committee, Missouri*  
**Jason Hutcheson**  
*Director, Iowa*



*P.O. Box 418, Bowling Green, MO 63334  
573.489.9173*

**Joseph B. Gibbs, PE**  
*Director, Missouri*  
**Philip Held**  
*Director, Missouri*  
**Al Muhlenbruck**  
*Director, Iowa*  
**Brent Hoerr**  
*Director, Missouri*  
**Jim Koeller**  
*Director, Illinois*  
**Roger Sutter**  
*Director, Missouri*  
**Kevin Rund**  
*Director, Illinois*

December 1, 2014

U.S. Army Corps of Engineers  
Attn: CECW-CE (Lisa Keifel)  
441 G Street NW  
Washington, DC 20314-1000

RE: Section 7001 of the Water Resources Reform and Development Act of 2014

Dear Ms. Keifel,

Established in 1954, UMIMRA is a grassroots stakeholder organization advocating for a stronger Upper Mississippi Valley through flood control. Reliable flood control leads to a more reliable navigation channel, economic development, and a better way of life for the communities along the river. UMIMRA works closely with local, state, and federal legislators, the U.S. Army Corps of Engineers, and other agencies to ensure our members concerns are heard.

UMIMRA sends this letter of support for the South Quincy Drainage & Levee District application. The District was established to protect 6,406 acres and aid in the reduction of waterborne illness. It has been estimated that the District has prevented approximately \$3,442,972,100 in damages since 1973.

The population located behind this levee is approximately 250 inhabitants. The proposed project would not only protect this population, but also protect approximately 6.6 miles of State, and County Highways, 5.3 miles of railroads, significant industrial/commercial development, and residences. The proposed project would provide additional protection for human health and these roadways, railways, and businesses beyond the existing estimated annual damages prevented of approximately \$86 million.

Thank you for your consideration,

Meagan Kaiser, Executive Director  
Upper Mississippi, Illinois, & Missouri  
Rivers Association