



**U.S. Department of Housing and Urban
Development**

451 Seventh Street, SW
Washington, DC 20410
www.hud.gov

espanol.hud.gov

Environmental Review for Activity/Project that is Categorically Excluded Subject to Section 58.5 Pursuant to 24 CFR 58.35(a)

Project Information

Project Name: Residential Resilience Program Tier 1 Programmatic Review

Responsible Entity: Cook County, 69 W. Washington Street, Suite 2900, Chicago, IL 60602

Certifying Officer Name and Title: Michael A. Jasso, Bureau Chief, Cook County Bureau of Economic Development

Grant Recipient (if different than Responsible Entity): N/A

Preparer: Patrick Dunn, Planner, CDM Smith

State/Local Identifier: B-13-US-17-0001

Project Location: Multiple locations throughout suburban Cook County, Illinois

Suburban Cook County includes all suburban and unincorporated areas in Cook County except the City of Chicago.

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The proposed project would rehabilitate owner-occupied, single family homes (one to four units) that were affected by severe storms and flooding that occurred throughout the Chicago area between April and May 2013. The program is open to residents of suburban Cook County who are low to moderate income, defined as a household earning up to 80% of the area median income for Cook County, adjusted for size, as annually published by the U.S. Department of Housing and Urban Development (HUD). Priority would be given to those whose residences are within or adjacent to current or proposed efforts in flood mitigation and storm water management as undertaken by the Metropolitan Water Reclamation District of Greater Chicago (MWRD).

Funding would assist residents with clean-up from the effects of flooding and to help install flood mitigation elements to minimize future flooding. Eligible project activities include, among other things, the following: backwater valves; overhead sewer; landscape grading; installation and/or replacement of sump pump and French drains; foundation wall repair; replacement of gutter, down spouts and, if needed, roofing; rainwater capture and retention; removal or abatement of any health hazard in the home such as mold, asbestos, and lead-based paint.

Fixtures such as a furnace, boiler, and hot water heater would be eligible for reimbursement. Grant funds would be available for up to \$25,000 per property.

Two subrecipients, North West Housing Partnership (NWHP) and Neighborhood Housing Services of Chicago, Inc. (NHS), would assist in the administration of the program. Initially, 39th Street/Pershing Road would serve as the dividing line, with NWHP assisting homeowners to the north and NHS assisting homeowners to the south. However, this demarcation is fluid and may change based on the volume of work. Approximately 320 homes are anticipated in the program.

This document represents the Tier 1 programmatic review for the Residential Resilience Program, and addresses those requirements for which compliance can be determined without knowing specific project locations. Once specific locations are identified, supplementary site-specific environmental reviews (second tier) will be prepared to address those compliance areas that cannot be addressed in this Tier 1 programmatic review.

Level of Environmental Review Determination:

Categorically Excluded per 24 CFR 58.35(a), and subject to laws and authorities at §58.5: 24 CFR 58.35(a)(3)(i)

Funding Information

Grant Number	HUD Program	Funding Amount
B-13-US-17-0001	CDBG-DR	\$12,000,000

Estimated Total HUD Funded Amount:

The proposed project would be funded with \$12,000,000 in HUD Community Development Block Grant – Disaster Recovery (CDBG-DR) grant funds. Up to \$25,000 in CDBG-DR funds would be available for each property.

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]:

The estimated total project cost is \$12,000,000. The entire project would be funded with HUD CDBG-DR grant funds. Up to \$25,000 in CDBG-DR funds would be available for each property.

Compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes No <input type="checkbox"/> <input type="checkbox"/>	<p>A second tier site-specific environmental review will be required for individual properties. Aerial imagery will be reviewed for proximity to Chicago O’Hare International Airport, Chicago Midway International Airport, and Gary/Chicago International Airport. Clear zone maps will be reviewed for proposed sites located within 2,500 feet of these airports. The proposed sites are not near a military airfield. Scott Air Force Base in southwestern Illinois is the only military airfield in Illinois.</p> <p>Sources: National Plan of Integrated Airport Systems (NPIAS) Report 2015-2019, Appendix B, http://www.faa.gov/airports/planning_capacity/npias/reports/; aerial imagery accessed in Google™ Earth Pro</p>
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>No units of the Coastal Barrier Resources System are in the State of Illinois.</p> <p>Source: U.S. Fish and Wildlife Service (USFWS), Official Coastal Barrier Resources System Maps, http://www.fws.gov/cbra/Maps/index.html</p>

<p>Flood Insurance</p> <p>Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]</p>	<p>Yes No</p> <p><input type="checkbox"/> <input type="checkbox"/></p>	<p>A second tier site-specific environmental review will be required for individual properties. The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) will be reviewed when a proposed site is identified. Flood insurance will be required for a proposed site in the 100-year floodplain.</p> <p>Source: FEMA, Map Service Center, http://msc.fema.gov/portal</p>
<p>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5</p>		
<p>Clean Air</p> <p>Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed project is in compliance. The proposed project area is in Cook County, which is listed as being in marginal nonattainment of the 2008 8-hour ozone standard. The proposed project area is within the portion of Cook County designated as nonattainment of the 2010 sulfur dioxide standard, but is outside the portion of Cook County designated as nonattainment of the 2008 lead standard. The proposed project conforms to the State Implementation Plan (SIP) because the project would not be a significant source of sulfur dioxide or pollutants that contribute to ozone formation.</p> <p>Source: U.S. Environmental Protection Agency (USEPA), Green Book Nonattainment Areas, National Area and County-Level Multi-Pollutant Information, http://www3.epa.gov/airquality/greenbook/multipol.html</p>
<p>Coastal Zone Management</p> <p>Coastal Zone Management Act, sections 307(c) & (d)</p>	<p>Yes No</p> <p><input type="checkbox"/> <input type="checkbox"/></p>	<p>A second tier site-specific environmental review will be required for individual properties. The coastal map will be reviewed when a proposed site is identified. Additional review will be required for a proposed site within the coastal zone boundary.</p> <p>Source:</p>

		Illinois Department of Natural Resources (IDNR), Illinois Coastal Management Program Boundaries, http://www.dnr.illinois.gov/cmp/Pages/boundaries.aspx
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes No <input type="checkbox"/> <input type="checkbox"/>	<p>A second tier site-specific environmental review will be required for individual properties. The USEPA Envirofacts database and the underground storage tank (UST) database of the Office of the Illinois State Fire Marshall will be reviewed when a proposed site is identified. Homes constructed prior to 1978 may contain asbestos and lead-based paint. If present, these toxins will need to be addressed in accordance with all applicable federal, state, and local laws and regulations.</p> <p>Sources: USEPA, Envirofacts, https://www3.epa.gov/enviro/; Office of the Illinois State Fire Marshal, UST Search, http://webapps.sfm.illinois.gov/ustsearch/</p>
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>The proposed project is in compliance. Ten federally protected species and one critical habitat are listed as occurring in Cook County: northern long-eared bat, piping plover, Rufa red knot, eastern massasauga, Hine’s emerald dragonfly and its critical habitat, rattlesnake-master borer moth, eastern prairie fringed orchid, leafy-prairie clover, Mead’s milkweed, and prairie bush clover (see species list provided in Appendix A). Rehabilitation of existing housing would not impact any federally protected species (see no effect determination in Appendix A).</p> <p>Source: Online consultation with USFWS pursuant to Section 7 of the Endangered Species Act, http://www.fws.gov/midwest/endangered/section7/s7process/index.html</p>
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>The proposed project is in compliance. The proposed project does not include development, construction, rehabilitation that will increase residential densities, or</p>

		conversion; and the proposed project does not include a hazardous facility.
<p>Farmlands Protection</p> <p>Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed project is in compliance. Because the proposed sites are developed residential properties not zoned for agriculture, they are considered “land already committed to urban development,” and are therefore not subject to the Farmland Protection Policy Act (7 CFR 658.2(a), definition of “farmland”).</p>
<p>Floodplain Management</p> <p>Executive Order 11988, particularly section 2(a); 24 CFR Part 55</p>	<p>Yes No</p> <p><input type="checkbox"/> <input type="checkbox"/></p>	<p>A second tier site-specific environmental review will be required for individual properties. FEMA FIRMs will be reviewed when a proposed site is identified.</p> <p>Source: FEMA, Map Service Center, http://msc.fema.gov/portal</p>
<p>Historic Preservation</p> <p>National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p>	<p>Yes No</p> <p><input type="checkbox"/> <input type="checkbox"/></p>	<p>A second tier site-specific environmental review will be required for individual properties. The Illinois Historic Preservation Agency (IHPA) Historic and Architectural Resources Geographic Information System (HARGIS) will be reviewed when a proposed site is identified. Proposed sites will need to receive the approval from the State Historic Preservation Officer (SHPO) at IHPA.</p> <p>Indian tribe consultation is not applicable to rehabilitation of existing housing. Refer to the checklist titled When to Consult With Tribes Under Section 106 provided in Appendix B.</p> <p>Source: IHPA, HARGIS, http://gis.hpa.state.il.us/hargis/</p>
<p>Noise Abatement and Control</p> <p>Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed project is in compliance. 24 CFR Part 51 Subpart B is not applicable to disaster recovery housing rehabilitation projects. The proposed project would provide assistance that has the effect of restoring facilities substantially as they existing prior to the disaster.</p>

<p>Sole Source Aquifers</p> <p>Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed project is in compliance. Cook County is not within or near a designated sole source aquifer (see map in Appendix C). Therefore, projects in Cook County have no potential to affect sole source aquifers.</p> <p>Source: USEPA, Designated Sole Source Aquifers in Region 5, http://www3.epa.gov/region5/water/gwdw/solesourceaquifer/index.htm</p>
<p>Wetlands Protection</p> <p>Executive Order 11990, particularly sections 2 and 5</p>	<p>Yes No</p> <p><input type="checkbox"/> <input type="checkbox"/></p>	<p>A second tier site-specific environmental review will be required for individual properties. The USFWS National Wetlands Inventory (NWI) Mapper will be reviewed when a proposed site is identified. Additional review will be required for an activity impacting wetlands.</p> <p>Source: USFWS, NWI Mapper, http://www.fws.gov/wetlands/data/mapper.HTML</p>
<p>Wild and Scenic Rivers</p> <p>Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed project is in compliance. The designated wild and scenic river closest to Cook County is the Middle Fork of the Vermilion River in Vermilion and Champaign Counties. This river segment is the only designated wild and scenic river in Illinois. Cook County, at its closest, is approximately 77 miles from the designated segment of the Vermilion River (see map in Appendix D).</p> <p>Source: National Wild and Scenic Rivers System, Explore Designated Rivers, Illinois, http://www.rivers.gov/illinois.php</p>
<p>Environmental Justice</p> <p>Executive Order 12898</p>	<p>Yes No</p> <p><input type="checkbox"/> <input type="checkbox"/></p>	<p>A second tier site-specific environmental review will be required for individual properties. The proposed project's purpose is to assist with recovery and mitigation needs for homeowners of single family properties damaged during the flooding of April and May 2013. A determination will be made whether the proposed activity</p>

		<p>would have a disproportionate adverse environmental impact on minority and low-income residents.</p> <p>Source: Council on Environmental Quality, Environmental Justice - Guidance Under the National Environmental Policy Act, 1997, discussion of “disproportionately high and adverse human health effects” on page 26, https://www.epa.gov/environmentaljustice/environmental-justice-and-national-environmental-policy-act</p>
--	--	---

Field Inspection (Date and completed by):

A field inspection, if applicable, will be completed when a proposed activity is identified as part of a second tier site-specific environmental review.

Summary of Findings and Conclusions:

The proposed project would provide recovery and mitigation to help homeowners of single family properties recover from the flooding of April and May 2013. This document represents the Tier 1 programmatic review for the proposed project, and addresses those requirements for which compliance can be determined without knowing specific project locations. Once specific locations are identified, supplementary site-specific environmental reviews (second tier) will be prepared to address those compliance areas that cannot be addressed in this Tier 1 programmatic review. The second tier site-specific environmental review will address the following compliance areas:

- Airport Hazards
- Floodplain Management and Flood Insurance
- Coastal Zone Management
- Contamination and Toxic Substances
- Historic Preservation
- Wetlands Protection
- Environmental Justice

Mitigation Measures and Conditions [40 CFR 1505.2(c)]

Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

- Acquire all required federal, state and local permits before beginning rehabilitation.
- Abate asbestos-containing material (ACM) and lead-based paint in accordance with all applicable federal, state, and local laws and regulations.

A second tier site-specific environmental review must be performed for a proposed site once specific project locations are identified. The second tier site-specific environmental review must address the following compliance areas:

- Airport Hazards
- Floodplain Management and Flood Insurance
- Coastal Zone Management
- Contamination and Toxic Substances
- Historic Preservation
- Wetlands Protection
- Environmental Justice

Determination:

- This categorically excluded activity/project converts to **EXEMPT** per Section 58.34(a)(12), because it does not require any mitigation for compliance with any listed statutes or authorities, nor requires any formal permit or license; **Funds may be committed and drawn down after certification of this part** for this (now) EXEMPT project; OR
- This categorically excluded activity/project cannot convert to Exempt status because one or more statutes or authorities listed at Section 58.5 requires formal consultation or mitigation. Complete consultation/mitigation protocol requirements, **publish NOI/RROF and obtain “Authority to Use Grant Funds”** (HUD 7015.16) per Section 58.70 and 58.71 before committing or drawing down any funds; OR
- This project is not categorically excluded OR, if originally categorically excluded, is now subject to a full Environmental Assessment according to Part 58 Subpart E due to extraordinary circumstances (Section 58.35(c)).

Preparer Signature:  Date: September 1, 2016

Name/Title/Organization: Patrick Dunn, Planner, CDM Smith

Reviewer Signature: _____ Date: _____

Name/Title/Organization: Jeffrey L. Wiseman, Housing Project Manager, Department of Planning and Development, Cook County Bureau of Economic Development

Certifying Officer Signature: _____ Date: _____

Name/Title: Michael A. Jasso, Bureau Chief, Cook County Bureau of Economic Development

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

Appendices

- Appendix A: Endangered Species
- Appendix B: Historic Preservation
- Appendix C: Sole Source Aquifers
- Appendix D: Wild and Scenic Rivers

Appendix A

Endangered Species



Endangered Species

Midwest

S7 Consultation Technical Assistance Decision Process for "No Effect" Determinations

HUD Projects - Step 6

Step 6. "No Effect" Determination and Documentation

Your project is located entirely within an urban area (incorporated village or city) and does not involve any new construction activities. Additionally, your project entails one of the following characteristics:

- the rehabilitation of existing buildings, if the rehabilitation does not significantly alter present capacity or use, or
- the reconstruction or resurfacing of existing infrastructure (e.g., streets, sewers, sidewalks, etc.) without disturbance to previously undisturbed ground, or
- the removal of urban blight, through the demolition of unwanted and unsightly structures, provided that the locations for disposal and stockpiling of demolition debris are clearly described in project plans and do not contain plant or animal habitats.

Based on these characteristics, a "No Effect" determination is appropriate because the project will not occur within suitable habitat for any listed species and/or no habitat disturbance is anticipated. Hence, no listed species or designated critical habitat is anticipated to be directly or indirectly affected by this action.

To document your section 7 review and "no effect" determination, we recommend that you print this page (go to File < Print Preview), fill-in the project name and date, attach your [species list](#), and file in your administrative record.

HUD Project: Residential Resilience Program Tier 1 Programmatic Review

Date: August 30, 2016

[Back](#)

[Home - "No Effect" Determination Process](#)

Illinois County Distribution

Federally Endangered, Threatened, and Candidate Species

Revised September 30, 2015

County	Species	Status	Habitat
Adams Field Office to Contact: U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat <i>Myotis sodalis</i>	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Northern long-eared bat <i>Myotis septentrionalis</i>	Threatened	Hibernates in caves and mines - swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests and woods.
	Higgins eye pearlymussel <i>(Lampsilis higgins)</i>	Endangered	Mississippi River; Rock River to Steel Dam
	Eastern prairie fringed orchid <i>(Platanthera leucophaea)</i>	Threatened	Mesic to wet prairies
Alexander Field Office to Contact: U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Gray bat (<i>Myotis grisescens</i>)	Endangered	Caves and mines; rivers & reservoirs adjacent to forests
	Indiana bat <i>Myotis sodalis</i>	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Northern long-eared bat <i>Myotis septentrionalis</i>	Threatened	Hibernates in caves and mines - swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests and woods.
	Least tern (<i>Sterna antillarum</i>)	Endangered	Bare alluvial and dredged spoil islands
	Pallid sturgeon <i>(Scaphirhynchus albus)</i>	Endangered	Large rivers
	Rabbitsfoot <i>(Quadrula cylindrica cylindrica)</i>	Threatened	Ohio River
	Sheepnose mussel (<i>Plethobasus cyphus</i>)	Endangered	Shallow areas in larger rivers and streams
	Bond Field Office to Contact: U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat (<i>Myotis sodalis</i>)	Endangered
Northern long-eared bat <i>Myotis septentrionalis</i>		Threatened	Hibernates in caves and mines - swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests and woods.
Piping plover <i>Charadrius melodus</i>		Endangered	May be present in Bond County during migration.
Eastern prairie fringed orchid <i>(Platanthera leucophaea)</i>		Threatened	Mesic to wet prairies
Boone Field Office to Contact: U.S. Fish and Wildlife	Indiana bat (<i>Myotis sodalis</i>)	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)

County	Species	Status	Habitat
e:mail Marion@fws.gov	Eastern prairie fringed orchid <i>(Platanthera leucophaea)</i>	Threatened	Mesic to wet prairies
Clay Field Office to Contact: U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat <i>(Myotis sodalis)</i>	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Northern long-eared bat <i>Myotis septentrionalis</i>	Threatened	Hibernates in caves and mines - swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests and woods.
	Eastern prairie fringed orchid <i>(Platanthera leucophaea)</i>	Threatened	Mesic to wet prairies
Clinton Field Office to Contact: U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat <i>(Myotis sodalis)</i>	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Northern long-eared bat <i>Myotis septentrionalis</i>	Threatened	Hibernates in caves and mines - swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests and woods.
	Piping plover <i>Charadrius melodus</i>	Endangered	May be present in Clinton County during migration.
	Eastern massasauga <i>Sistrurus catenatus</i>	Proposed as Threatened	Graminoid dominated plant communities (fens, sedge meadows, peatlands, wet prairies, open woodlands, and shrublands)
	Eastern prairie fringed orchid <i>(Platanthera leucophaea)</i>	Threatened	Mesic to wet prairies
	Lakeside daisy <i>(Hymenoxys acaulis var. glabra)</i>	Threatened	Dry rocky prairies
	Eastern prairie fringed orchid <i>(Platanthera leucophaea)</i>	Threatened	Mesic to wet prairies
Coles Field Office to Contact: U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat <i>(Myotis sodalis)</i>	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Northern long-eared bat <i>Myotis septentrionalis</i>	Threatened	Hibernates in caves and mines - swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests and woods.
	Snuffbox <i>(Epioblasma triquetra)</i>	Endangered	Small to medium-sized creeks and some larger rivers, in areas with a swift current
	Eastern prairie fringed orchid <i>(Platanthera leucophaea)</i>	Threatened	Mesic to wet prairies
Cook Field Office to Contact: USFWS Chicago Illinois FO 1250 South Grove, Suite	Northern long-eared bat <i>Myotis septentrionalis</i>	Threatened	Hibernates in caves and mines - swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests and woods.
	Piping plover <i>Charadrius melodus</i>	Endangered	Lakeshore beaches

County	Species	Status	Habitat
103 Barrington, Illinois 60010 (847) 381-2253 e:mail Chicago@fws.gov Cathy_Pollack@fws.gov	Rufa Red knot (<i>Calidris canutus rufa</i>)	Threatened	Only actions that occur along coastal areas or large wetland complexes during migratory window of May 1 - September 30
	Eastern massasauga <i>Sistrurus catenatus</i>	Proposed as Threatened	Graminoid dominated plant communities (fens, sedge meadows, peatlands, wet prairies, open woodlands, and shrublands)
	Hine's emerald dragonfly (<i>Somatochlora hineana</i>)	Endangered	Spring fed wetlands, wet meadows and marshes
	Hine's emerald dragonfly (<i>Somatochlora hineana</i>)	Critical Habitat Designated	Map and written description of the areas designated as Critical Habitat (PDF)
	Rattlesnake-master borer moth (<i>Papaipema eryngii</i>)	Candidate	Undisturbed prairie and woodland openings that contain their only food plant, rattlesnake-master (<i>Eryngium yuccifolium</i>).
	Eastern prairie fringed orchid (<i>Platanthera leucophaea</i>) Go here for specific guidance on how to determine whether this species is present on a site.	Threatened	Moderate to high quality wetlands, sedge meadow, marsh, and mesic to wet prairie
	Leafy-prairie clover (<i>Dalea foliosa</i>)	Endangered	Prairie remnants on thin soil over limestone
	Mead's milkweed (<i>Asclepias meadii</i>)	Threatened	Late successional tallgrass prairie, tallgrass prairie converted to hay meadow, and glades or barrens with thin soil
Crawford Field Office to Contact: U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Prairie bush clover (<i>Lespedeza leptostachya</i>)	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat (<i>Myotis sodalis</i>)	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Northern long-eared bat <i>Myotis septentrionalis</i>	Threatened	Hibernates in caves and mines - swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests and woods.
	Rabbitsfoot (<i>Quadrula cylindrica cylindrica</i>)	Threatened	Wabash River
Cumberland Field Office to Contact: U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Eastern prairie fringed orchid (<i>Platanthera leucophaea</i>)	Threatened	Mesic to wet prairies
	Indiana bat (<i>Myotis sodalis</i>)	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Northern long-eared bat <i>Myotis septentrionalis</i>	Threatened	Hibernates in caves and mines - swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests and woods.
	Snuffbox (<i>Epioblasma triquetra</i>)	Endangered	Small to medium-sized creeks and some larger rivers, in areas with a swift current

Appendix B

Historic Preservation

When To Consult With Tribes Under Section 106

Section 106 requires consultation with federally-recognized Indian tribes when a project may affect a historic property of religious and cultural significance to the tribe. Historic properties of religious and cultural significance include: archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, traditional cultural places, traditional cultural landscapes, plant and animal communities, and buildings and structures with significant tribal association. The types of activities that may affect historic properties of religious and cultural significance include: ground disturbance (digging), new construction in undeveloped natural areas, introduction of incongruent visual, audible, or atmospheric changes, work on a building with significant tribal association, and transfer, lease or sale of properties of the types listed above.

If a project includes any of the types of activities below, invite tribes to consult:

- significant ground disturbance (digging)**
Examples: new sewer lines, utility lines (above and below ground), foundations, footings, grading, access roads
- new construction in undeveloped natural areas**
Examples: industrial-scale energy facilities, transmission lines, pipelines, or new recreational facilities, in undeveloped natural areas like mountaintops, canyons, islands, forests, native grasslands, etc., and housing, commercial, and industrial facilities in such areas
- incongruent visual changes**
Examples: construction of a focal point that is out of character with the surrounding natural area, impairment of the vista or viewshed from an observation point in the natural landscape, or impairment of the recognized historic scenic qualities of an area
- incongruent audible changes**
Examples: increase in noise levels above an acceptable standard in areas known for their quiet, contemplative experience
- incongruent atmospheric changes**
Examples: introduction of lights that create skyglow in an area with a dark night sky
- work on a building with significant tribal association**
Examples: rehabilitation, demolition or removal of a surviving ancient tribal structure or village, or a building or structure that there is reason to believe was the location of a significant tribal event, home of an important person, or that served as a tribal school or community hall
- transfer, lease or sale of a historic property of religious and cultural significance**
Example: transfer, lease or sale of properties that contain archeological sites, burial grounds, sacred landscapes or features, ceremonial areas, plant and animal communities, or buildings and structures with significant tribal association
- None of the above apply**

Residential Resilience Program Tier 1 Programmatic Review
Project

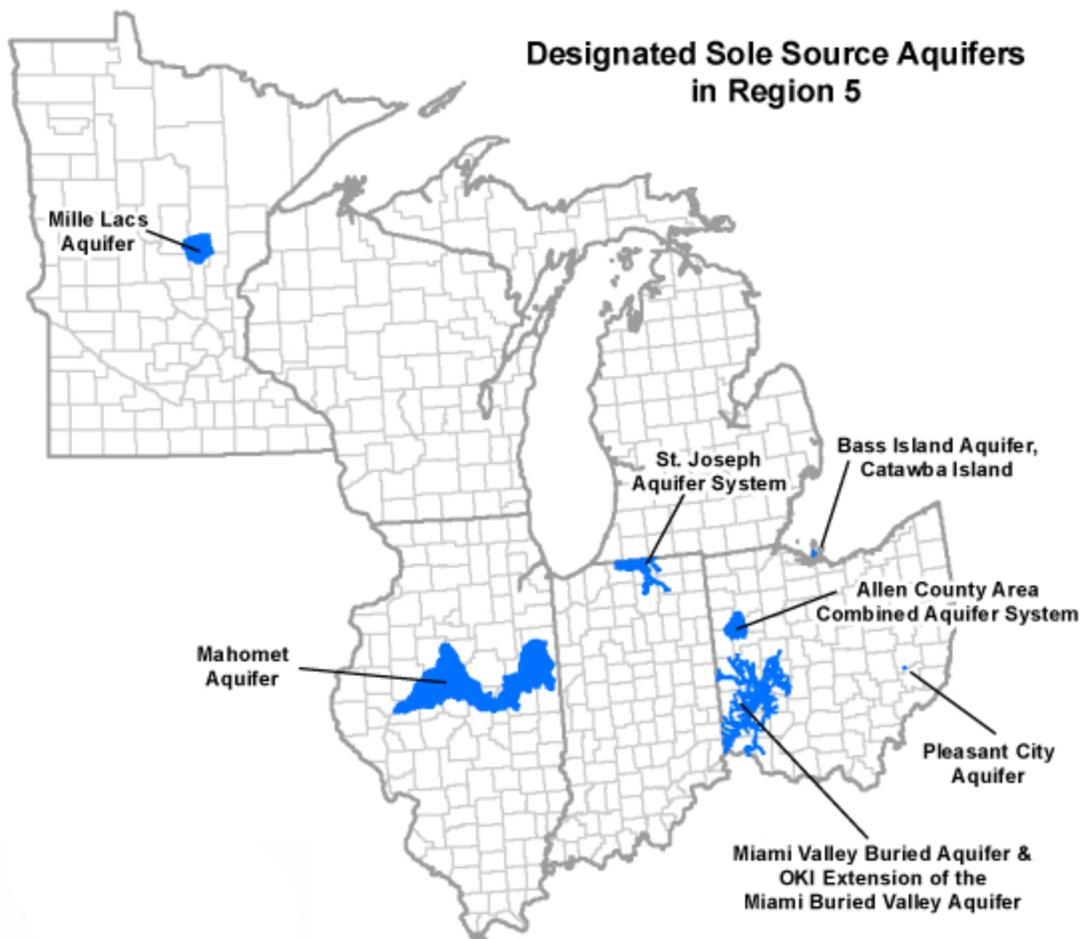
Patrick Dunn, CDM Smith
Reviewed By

August 30, 2016
Date

Appendix C

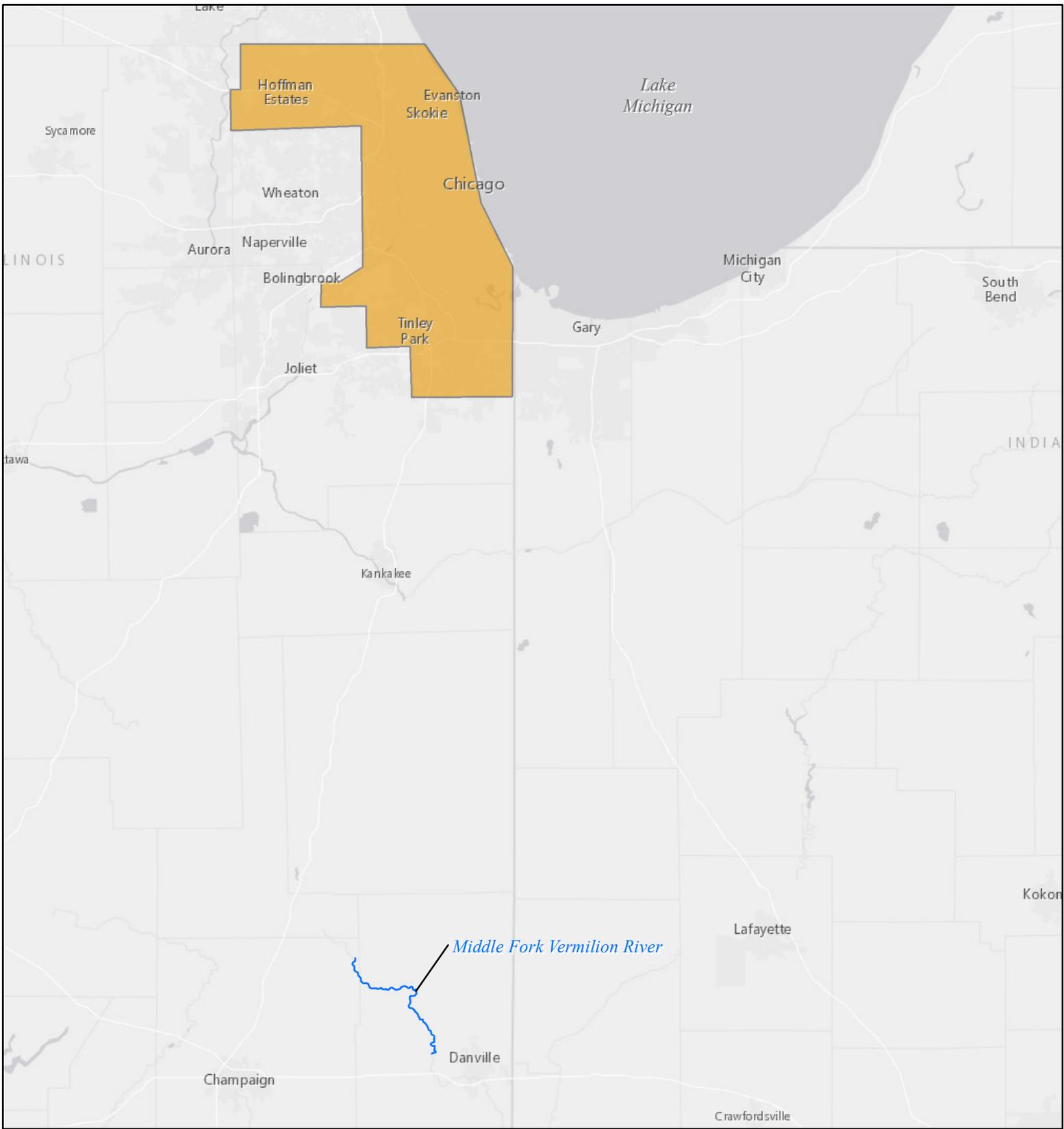
Sole Source Aquifers

Designated Sole Source Aquifers in Region 5



Appendix D

Wild and Scenic Rivers



Illinois Wild and Scenic Rivers



0 15 30
Miles

 Cook County

 Designated National Wild and Scenic River