

Attachment 2
Wyanet Connection PESA

IDOT Sequence #: 15795
IDOT Job #: NA

ISGS: 2191

PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT

FINAL REPORT

DATE: April 8, 2010

IDOT DESIGN DATE: May 15, 2010

DATE REQUEST RECEIVED: April 1, 2010

LOCATION: Proposed track connection between the BNSF and IAIS railroads near Wyanet, Bureau County; Wyanet quadrangle (USGS 7.5-minute topographic map), T16N, R8E, Sections 19 and 20.

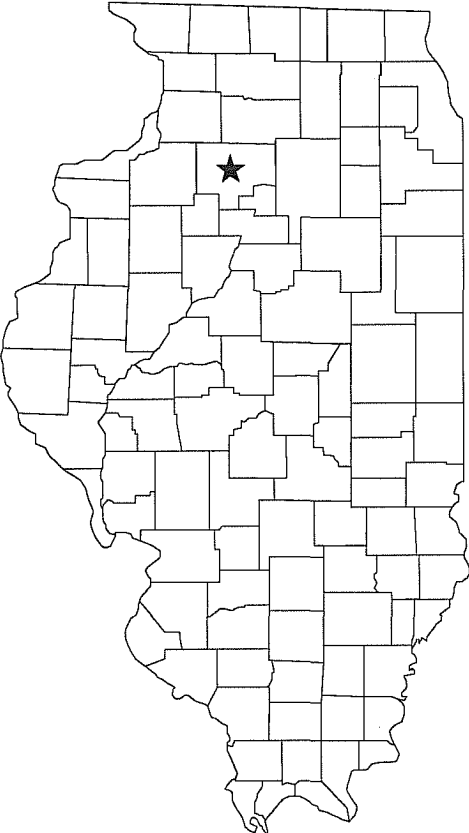


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GLOSSARY OF ACRONYMS

AAI	-	All Appropriate Inquiries	MSDS	-	Material Safety Data Sheet
ACM	-	Asbestos-Containing Material	MTBE	-	methyl tertiary-butyl ether
AST	-	Aboveground Storage Tank	NFR	-	No Further Remediation
ASTM	-	American Society for Testing and Materials	NFRAP	-	No Further Remedial Action Planned
AULs	-	Activity and Use Limitations (includes institutional controls, engineered barriers, and HAAs)	NIPC	-	Northeastern Illinois Planning Commission
BNSF	-	Burlington Northern and Santa Fe	NPL	-	National Priorities List
BOL	-	Bureau of Land (IEPA)	NRCS	-	Natural Resources Conservation Service (formerly Soil Conservation Service)
BTEX	-	Benzene, Toluene, Ethylbenzene, and total Xylenes	OSFM	-	Office of the State Fire Marshal
Ⓞ	-	Centerline	PAA	-	Permit Access Agreement
CERCLIS-		Comprehensive Environmental Response, Compensation, and Liability Information System	PAH/PNA-		Polynuclear Aromatic Hydrocarbon
			PCB	-	Polychlorinated Biphenyl
FEMA	-	Federal Emergency Management Agency	PESA	-	Preliminary Environmental Site Assessment
FID	-	Flame Ionization Detector	P.G.	-	Professional Geologist
FIRM	-	Flood Insurance Rate Map	PID	-	Photoionization Detector
GC	-	Gas Chromatograph	ppb	-	parts per billion (equivalent to µg/kg for solids, and µg/l in liquids)
HAA	-	Highway Authority Agreement	ppm	-	parts per million (equivalent to mg/kg in solids, and mg/l in liquids)
IAIS	-	Iowa Interstate (railroad)	PRP	-	Potentially Responsible Party
ICC	-	Illinois Commerce Commission	RCRA	-	Resource Conservation and Recovery Act
IDNR	-	Illinois Department of Natural Resources	REC	-	Recognized Environmental Condition
IDOT	-	Illinois Department of Transportation	ROW	-	Right-of-Way
IEMA	-	Illinois Emergency Management Agency	SIC	-	Standard Industrial Classification
IEPA	-	Illinois Environmental Protection Agency	SRP	-	Site Remediation Program
IMD	-	Illinois Manufacturers Directory	TACO	-	Tiered Approach to Cleanup Objectives
ISD	-	Illinois Services Directory	TCLP	-	Toxicity Characteristic Leaching Procedure
ISGS	-	Illinois State Geological Survey	TRI	-	Toxic Release Inventory
ISTC	-	Illinois Sustainable Technology Center (formerly Waste Management and Research Center)	TVOC	-	Total Volatile Organic Compound
ISV	-	Initial Site Visit	USDA	-	United States Department of Agriculture
ISWS	-	Illinois State Water Survey	USEPA	-	United States Environmental Protection Agency
LUST	-	Leaking Underground Storage Tank	USGS	-	United States Geological Survey
µg/kg	-	micrograms per kilogram (ppb)	UST	-	Underground Storage Tank
µg/l	-	micrograms per liter (ppb)	VOC	-	Volatile Organic Compound
mg/kg	-	milligrams per kilogram (ppm)			
mg/l	-	milligrams per liter (ppm)			
M.P.	-	Milepost			

EXECUTIVE SUMMARY

This report presents the results of an environmental site assessment for this proposed railroad track connection of the Burlington Northern and Santa Fe (BNSF) and Iowa Interstate (IAIS) railroads near Wyanet, Bureau County. This report was prepared on behalf of the Illinois Department of Transportation (IDOT) by the Illinois State Geological Survey (ISGS).

The following sites were examined for this project. The tables below list sites along the project for which recognized environmental conditions (RECs)* were identified for each address or address range (Table 1); sites along the project for which only de minimis conditions were identified (Table 2); sites along the project for which no RECs were identified (Table 3); and sites adjacent to but not on the project that were identified on environmental databases (Table 4). Further investigation of sites with RECs may be desired.

Table 1. The following sites along the project were determined to contain RECs:

Property name IDOT parcel #	ISGS site #	REC(s), including de minimis conditions	Regulatory database(s)	Land use
Railroad Track Connection Area NA	2191-1	AST; potential chemical presence; solid waste; unusual or noxious odors; likely pesticide and/or herbicide use; potential lead paint	None	Agricultural/ railroad

Table 2. The following sites along the project were determined to contain de minimis conditions only:

Property name IDOT parcel #	ISGS site #	De minimis condition(s)	Land use
None			

Table 3. The following sites along the project were determined not to contain RECs or de minimis conditions:

Property name IDOT parcel #	ISGS site #	Land use
Pond Creek NA	2191-2	Creek

Table 4. The following additional sites, adjacent to but not on the project, were identified on environmental databases:

Property name	ISGS site #	Regulatory database(s)	Land use
None			

* For all sites:

Where REC(s) are indicated as present, a condition was noted that may be indicative of releases or potential releases of hazardous substances on, at, in, or to the site, as discussed in the text. Potential hazards were not verified by ISGS testing. Radon, biological hazards (such as mold, medical waste, or septic waste), and non-agricultural pesticides and/or herbicides may also be of concern. No further investigation concerning the presence or use of these factors was conducted for this PESA.

Where RECs are not indicated as present, radon, biological hazards (such as mold, medical waste, or septic waste), and non-agricultural pesticides and/or herbicides may still be of concern. No further investigation concerning the presence or use of these factors was conducted for this PESA.

For the purposes of this report, the following are considered to be de minimis conditions:

- Normal use of lead-based paint on exteriors and interiors of buildings and structures.
- Use of asbestos-containing materials in building construction.
- Transformers in normal use, unless the transformers were observed to be leaking, appear on an environmental regulatory list, or were otherwise determined to pose a hazard not related to normal use.
- Agricultural use of pesticides and herbicides. In addition, most land in Illinois was under agricultural use prior to its conversion to residential, industrial, or commercial development. Pesticides, both regulated and otherwise, may have been used throughout the project area at any time. Unless specifically discussed elsewhere in this report, no information regarding past pesticide use that would be subject to enforcement action was located for this project, and such use is considered a de minimis condition.

Radon and biological hazards are not considered in this PESA unless specifically noted.

NA = No parcel number was supplied by IDOT for this site.

Although potential natural hazards and undermining, if present, are described in this report, they are not considered as RECs or de minimis conditions for the purposes of this report, and are therefore not listed in the tables above.

BACKGROUND

Introduction

This is the **Final Report** of a preliminary environmental assessment by the ISGS of natural and man-made hazards that may be encountered for this proposed BNSF and IAIS railroad track connection project near Wyanet, Bureau County (Attachment 1). The project requires the acquisition of 2.8 hectares (7 acres) of new ROW and includes in-stream work. No building modification or demolition is expected, and it is unknown whether any subsurface utility relocation or excavation is to occur. No stationing information was provided by IDOT for this project. This report identifies and evaluates recognized environmental conditions (RECs) that may be indicative of releases or potential releases of hazardous substances on, at, in, or to the proposed project.

This assessment has been prepared using historical and geological information including aerial photographs, U.S. Geological Survey topographic maps, plat maps, file information of the ISGS and other state agencies, and various other sources of information. An on-site investigation has been completed. The specific methods used to conduct the assessment are contained in "A Manual for Conducting Preliminary Environmental Site Assessments for Illinois Department of Transportation Highway Projects" (Erdmann et al., 1996, and revisions in preparation). If new environmental information is received concerning this site, this report will be updated accordingly and the information made part of the permanent file. If such information is considered to have a significant impact on the findings of this report, the report will be corrected by addendum and resubmitted to IDOT Bureau of Design and Environment.

This Preliminary Environmental Site Assessment (PESA) was performed in compliance with the IDOT-ISGS PESA Manual (Erdmann et al., 1996, and revisions in preparation) and not with the All Appropriate Inquiries environmental assessment standard (40 CFR Part 312) that took effect on November 1, 2006.

Geology

Bedrock geology. The topmost bedrock unit is Pennsylvanian-age bedrock of the Tradewater Formation. The Tradewater Formation consists of elongate sandstone sheets that may contain clay and mica, and may also contain local areas of limestone and coal measures.

Surficial geology. The thickness of surficial deposits in the project area are between 30 and 61 m (100 and 200 ft). The uppermost 15 m (49 ft) consists of less than 6 m (20 ft) of Peoria Silt, described as light yellow to gray silt, that is underlain by greater than 6 m (20 ft) of the Wedron Group, made up of primarily loamy and sandy glacial material in this area.

Soils. None of the soils along the project ROW have been classified as hydric soils by the NRCS. Non-prime farmland soils along the ROW are the Rodman gravelly sandy loam, 2 to 5 percent slopes; Rodman gravelly sandy loam, 6 to 12 percent slopes; and the Hennepin loam, 35 to 70 percent slopes.

Hydrogeology

Due to project type or IDOT internal procedure, the sections on surficial public water supplies, groundwater recharge, groundwater protection areas, potential for contamination of shallow aquifers, and well log information are not included in this report.

Drainage direction. Surficial drainage in the project area is generally toward Pond Creek which essentially bisects the project area; Pond Creek flows toward the southeast. However, the BNSF and IAIS train tracks are substantially built up in this area creating local drainage divides that disrupt local drainage from its natural flow patterns, but all the runoff eventually makes its way into Pond Creek.

Neither the near-surface nor the shallow unconfined groundwater flow direction was specifically determined for this project, but they generally mimic local topography.

DISCUSSION

Man-Made Hazards

The project area is primarily under commercial (railroad) and agricultural use. Attachment 1 contains a project location map. Attachment 2 contains a map of all sites discussed in this report. The most recent versions of the OSFM's UST database, IEPA's LUST database, IEPA's Bureau of Land database, and USEPA's CERCLIS database utilized for this report were dated April 7, 2010, April 5, 2010, April 7, 2010, and April 6, 2010, respectively. IEPA files were reviewed on March 31, 2010. No OSFM or USEPA files were reviewed for this project. Field work for this project was conducted on April 2, 2010.

Data gaps applicable to the entire project area

The following data gaps applicable to the entire project area were noted for this project. Data gaps specific to individual sites are discussed in the site writeups below.

- (1) Although Sanborn Fire Insurance maps were present for the town of Wyanet, they did not extend far enough west to cover the project area.
- (2) Aerial photographs provided information only for those specific times covered by the photographs, as noted in the Information Sources section. No records were available for intervening years, and other land uses could have occurred in these years.

Site 2191-1: Railroad Track Connection Area, no address, Wyanet (Attachment 2). This area consists of a mixture of agricultural land, undeveloped land, and railroad ROW. The railroad ROW consists of the Burlington Northern and Santa Fe (BNSF) railroad running from the northeast to southwest, and the Iowa Interstate (IAIS) railroad, running in approximately an east-west direction in this area. Along the BNSF railroad line, agricultural fields were present north of the IAIS railroad. South of the IAIS railroad the land was either forested or undeveloped weed-covered land. The IAIS railroad was located within the floodplain of Pond Creek, but was built up approximately 5 m (15 ft) above the natural ground level. Trees lined both the north and south sides of the tracks and

Pond Creek crossed beneath it just west of the intersection with the BNSF railroad.

During a site visit, several areas (marked as A on Attachment 2) contained piles of 19-liter (5-gallon) plastic and metal buckets with labels on them identifying them as "railroad curve grease". Some of the labels identified the grease as soy-based and biodegradable; others were petroleum-based. There were approximately 50 buckets total on the north side of the IAIS tracks and a scattered few on the south side of the tracks. A slight smell of petroleum was noted in close proximity to the buckets. Also noted along the south side of the tracks was a large pile of metal debris (approximate location marked as B on Attachment 2). The debris appeared to have been dumped down the slope from the adjoining agricultural field to the south and contained an AST, metal grain bins, metal drainage culvert, wire fencing, and corrugated sheeting. The debris did not appear to be on current railroad ROW, stopping right at the fence line between the railroad and adjoining property, but appears to be in the proposed corridor being scoped for this project. In addition, the IAIS railroad had numerous piles of used railroad ties (containing around 20 used railroad ties per pile) located primarily on the north side of the tracks; the piles were spaced approximately every 12 m (40 ft). Scattered loose used railroad ties were also located throughout the length of both rail lines. This site was not listed on any of the regulatory lists checked for this project.

Plat maps from 1875 show the railroad tracks present and their intersection was labeled "Junction Station". A small building is also shown on this map in the west quadrant of their intersection. Plat maps from 1903 show the building was gone but label the intersection "Railroad Jct". Plat maps from 1938 to 2005 show both railroad tracks present throughout this period and show the surrounding land under individual use. Aerial photographs from 1941 to 2007 show this site in essentially the same configuration as it is currently.

No visual evidence of stressed vegetation, depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, pits, transformers, non-petroleum chemical use or storage were noted at this site during a site visit by ISGS on April 2, 2010.

No data gaps were identified for this site.

Although there are no buildings present, some of the demolition debris was painted and may therefore contain lead-based paint. However, none of demolition debris appeared to contain asbestos-containing material so it is unlikely to be present at this site.

The following RECs were identified at this site: AST; potential chemical presence as noted above; solid waste; unusual or noxious odors.

The following de minimis conditions were identified at this site: Likely pesticide and/or herbicide use based on agricultural land use; potential lead-based paint.

Site 2191-2: Pond Creek, no address, Wyanet (Attachment 2). This southward-flowing creek runs along the north side of the IAIS railroad tracks and crosses under it just west of the intersection of the BNSF and IAIS railroads. According to the 2008 IEPA Water Quality Report, Pond Creek has not been assessed for water quality in the project area. This site was not listed on any of the regulatory lists checked for this project.

No visual evidence of stressed vegetation, depressions, mounding or soil piles, lagoons or surface impoundments, stained soil or pavement, water discoloration, fill, storage tanks (above or underground), pumps or dispensers, protruding pipes, pipelines, drums, monitoring wells, pits, solid waste, transformers, non-petroleum chemical use or storage, or unusual or noxious odors were noted at this site during a site visit by ISGS on April 2, 2010.

No data gaps were identified for this site.

Because there are no buildings present and no evidence of fill or demolition debris was observed, asbestos-containing materials and lead paint are unlikely to be present at this site.

No RECS or de minimis conditions were identified at this site.

Other potential man-made hazards

Properties adjacent to the proposed project that appear on regulatory lists. The ISGS conducted a search of federal, state, and other environmental databases for sites with reported environmental concerns on sites adjacent to the proposed project. For certain resources, the search distances may have been expanded when deemed applicable in the judgment of the environmental professional. Refer to the Appendix for complete citations for these databases and the date of last update of each database. Sites along the project are listed in the preceding section. The following sites adjacent to the project but not along the project were identified.

Federal records:

CERCLIS: NPL, Active, and Archived
None.

RCRA sites subject to corrective action (CORRACTS)
None.

RCRA sites – non-CORRACTS TSD
None.

RCRA sites – other
None.

Brownfields pilot sites
None.

State records:

Leaking underground storage tanks (LUST)
None.

Registered underground storage tanks (UST)
None.

Landfills, disposal sites, and solid waste management facilities
None.

Activity and Use Limitations (including Institutional controls, engineered barriers, and Highway Authority Agreements
None.

Brownfields
None.

IEPA Bureau of Land Inventory
None.

IEPA Site Remediation Program
None.

Non-LUST spill incidents
None.

Tribal records: There are no tribally owned lands in the state of Illinois; therefore, the checking of tribal records is not applicable for this report.

Natural Hazards

Wetlands. According to National Wetlands Inventory maps, two wetlands have been mapped in the project area. One is a palustrine emergent forested wetland located at the far eastern project limit, and the second is a palustrine forested broad-leaved deciduous temporary wetland located just southeast of where Pond Creek crosses under the IAIS railroad tracks. These wetlands maps were defined primarily by aerial photographs, which may reflect conditions specific to the year or season that the photography was completed. Therefore, wetlands areas may be either overstated or missing entirely.

Floodplains. According to Flood Insurance Rate maps, the project route crosses the Special Flood Hazard Area (land area subject to inundation by a flood that has a 1% probability of being equaled or exceeded in any given year) of Pond Creek. Flooding, standing water, and saturated soils may be encountered in this area, particularly during periods of high or extended rainfall or spring snowmelt.


No other observed or known natural hazards were identified for this project.

CONCLUSIONS

- (1) RECs were identified at the following site along the project:
- Site 2191-1: Railroad Track Connection Area. AST; potential chemical presence; solid waste; unusual or noxious odors; likely pesticide and/or herbicide use; potential lead paint.
- (2) No RECs or de minimis conditions were identified at the following site along the project:
- Site 2191-2: Pond Creek.
- (3) No properties that appear on environmental databases as listed in the text were identified on sites adjacent to the proposed project.
- (4) According to Flood Insurance Rate maps, the project route crosses the Special Flood Hazard Area (land area subject to inundation by a flood that has a 1% probability of being equaled or exceeded in any given year) of Pond Creek. Flooding, standing water, and saturated soils may be encountered in this area, particularly during periods of high or extended rainfall or spring snowmelt.
- (5) For the purposes of this report, the following are considered to be de minimis conditions:
- Normal use of lead-based paint on exteriors and interiors of buildings and structures.
 - Use of asbestos-containing materials in building construction.
 - Transformers in normal use, unless the transformers were observed to be leaking, appear on an environmental regulatory list, or were otherwise determined to pose a hazard not related to normal use.
 - Agricultural use of pesticides and herbicides. In addition, most land in Illinois was under agricultural use prior to its conversion to residential, industrial, or commercial development. Pesticides, both regulated and otherwise, may have been used throughout the project area at any time. Unless specifically discussed elsewhere in this report, no information regarding past pesticide use that would be subject to enforcement action was located for this project, and such use is considered a de minimis condition.

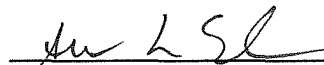
ENDORSEMENTS

Project Manager:

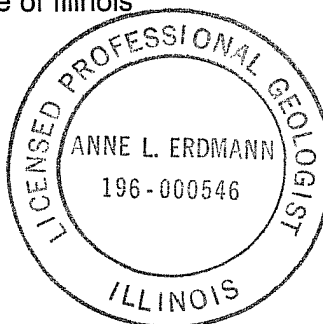

 Daniel J. Adomaitis

Date: 4-8-10

Approved:


 Anne Erdmann, P.G., State of Illinois
 License #196-000546

Date: 04/08/10



ADDRESS LISTINGS

The following addresses along the project were evaluated for this project. Addresses of sites, if any, adjacent to the proposed project but not along the project are not listed here; see text for discussion of these sites.

Property name and address	ISGS site #	Parcel #
Railroad Track Connection Area no address, Wyand	2191-1	NA
Pond Creek no address, Wyand	2191-2	NA

INFORMATION SOURCES

Lists, Databases, and Publications

- Bannon-Nilles, P.L., Ousley, J.R., Krick, M., and Raymond, L. (October 1999). A directory of Illinois libraries: Historical resources for environmental site assessments. Illinois State Geological Survey Open File Series 1999-8.
- Erdmann, A.L., Bauer, R.A., Bannon, P.L., and Schneider, N.P. (1996, and revisions in prep). A manual for conducting preliminary environmental site assessments for Illinois Department of Transportation highway projects. Illinois State Geological Survey Open File Series 1996-5.
- Illinois Department of Transportation Site Assessment Tracking System: frostycap.isgs.uiuc.edu/idot_extranet.
- Illinois Emergency Management Agency (September 22, 2007). Incident database: <http://tier2.iema.state.il.us/FOIAHazmatSearch/>
- Illinois Environmental Protection Agency, Bureau of Land (February 11, 2010). Brownfields database: epadata.epa.state.il.us/land/brownfields.
- Illinois Environmental Protection Agency, Bureau of Land (April 7, 2010). BOL database: epadata.epa.state.il.us/land/inventory/.
- Illinois Environmental Protection Agency, Bureau of Land (April 7, 2010). Site remediation program database: epadata.epa.state.il.us/land/srp/.
- Illinois Environmental Protection Agency, Bureau of Land (July 2007). State underground injection control inventory, 1984-July 2007.
- Illinois Environmental Protection Agency, Bureau of Water (2008). Illinois Integrated Water Quality Report and Section 303(d) List. www.epa.state.il.us/water/water-quality/index.html.
- Illinois Environmental Protection Agency, Bureau of Water (2008). Illinois Integrated Water Quality Report and Section 303(d) list: Appendix B-2. Stream Assessments. www.epa.state.il.us/water/tmdl/303-appendix/2008/appendix-b2-streams.pdf.
- Illinois Environmental Protection Agency (April 5, 2010). Leaking underground storage tank (LUST) database: <http://epadata.epa.state.il.us/land/ust/>.
- Illinois Environmental Protection Agency, Office of Emergency Response (January 30, 2006). Incident database, 1972-January 2006.
- Masters, J.M., Ipe, V.C., Smith, L.R., and Falter, M. (1999). Directory of Illinois Mineral Producers and Maps of Extraction Sites, 1997. Illinois State Geological Survey, Illinois Minerals 117.
- National Response Center (1990-2010). Emergency Response Notification System (ERNS) database: www.nrc.uscg.mil/foia.html.

- Office of the State Fire Marshal (April 7, 2010). Underground storage tank (UST) database: www.state.il.us/osfm.
- U.S. Department of Agriculture, Natural Resources Conservation Service web soil survey (January 8, 2010). websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx.
- U.S. Environmental Protection Agency (1982-1989). Emergency response notification system (ERNS) database: www.rtknet.org/db/erns/.
- U.S. Environmental Protection Agency (April 7, 2010). Illinois Brownfields pilot sites database: www.epa.gov/swerosps/bf/plocat.htm#region5.
- U.S. Environmental Protection Agency (April 7, 2010). Resource conservation and recovery information system (RCRAinfo) database, CORRACTS and non-CORRACTS databases: www.epa.gov/enviro/html/rcris/rcris_query_java.html.
- U.S. Environmental Protection Agency (April 6, 2010). Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database: cfpub.epa.gov/supercpad/cursites/srchsites.cfm.
- U.S. Environmental Protection Agency (1987-2008). Toxics release inventory: www.epa.gov/enviro/html/tris/tris_query.html.
- U.S. Geological Survey and Illinois Environmental Protection Agency (2010). Source Water Assessment Program for Illinois: www.epa.state.il.us/water/groundwater/source-water-assessment/index.html.

GIS Data

- Berg, R.C., and Kempton, J. P. (1988). Stack-unit mapping of geologic materials in Illinois to a depth of 15 meters. Illinois State Geological Survey Circular 542. GIS data produced from publication plates (1995, revised 1998).
- Geiger, J.W. (2006). Summary of former manufactured gas plants of Illinois (draft). Illinois State Geological Survey.
- Illinois Department of Natural Resources (1997). Landfill sites of Illinois.
- Illinois Environmental Protection Agency, Bureau of Water. Illinois Water Quality Mapping Tool: maps.epa.state.il.us/website/wqinfo/.
- Illinois State Geological Survey. ILOIL Interactive Mapping System: runoff.isgs.uiuc.edu/website/iloil/viewer.htm.
- Illinois State Geological Survey, Environmental Site Assessments section (2008). Summary of CERCLIS sites in Illinois (draft). Illinois State Geological Survey.
- Illinois State Geological Survey, Environmental Site Assessments section (2008). Summary of landfill sites in Illinois (draft). Illinois State Geological Survey.

- Illinois State Geological Survey, Environmental Site Assessments section (2008). Summary of LUST sites in Illinois (draft). Illinois State Geological Survey.
- Killey, M.M., Hines, J.K., and DuMontelle, P.D. (1985). Landslide inventory of Illinois. Illinois State Geological Survey Circular 534. GIS data produced from Plate 1 (1995).
- Kolata, D.R. (2005). Bedrock geology of Illinois. Illinois State Geological Survey Illinois Map 14.
- Piskin, K. (1975). Glacial drift in Illinois: Thickness and character. Illinois State Geological Survey Circular 490. GIS data produced from Plate 1 (1994, revised 1998).
- U.S. Department of Transportation, Office of Pipeline Safety (2010). Pipeline Integrity Management Mapping Application: www.npms.phmsa.dot.gov.
- U.S. Fish and Wildlife Service, Illinois Department of Natural Resources, and Illinois Natural History Survey (1996). Illinois wetlands inventory.
- U.S. Geological Survey and Illinois Environmental Protection Agency (2010). Source Water Assessment Program (SWAP) ArcIMS Mapping Tool: www.epa.state.il.us/water/groundwater/source-water-assessment/index.html.

Maps

- Bailey and Son (1903). Plat maps. Bureau County.
- Rockford Map Publishers (1938, 1948, 1952, 1965, 1971, 1975, 1980, 1988, 1995, 2005). Plat maps. Bureau County.
- U.S. Geological Survey (2008). Earthquake Hazards Program, Preliminary National Seismic Hazard Maps, Central and Eastern US. Peak Acceleration (% g) with 2% Probability of Exceedance in 50 Years: <http://gldims.cr.usgs.gov/>.
- U.S. Geological Survey (1983). Topographic map, 1:24,000 (7.5-minute) series: Wyanet Quadrangle.
- Warner and Beers (1875). Plat maps. Bureau County.
- Weibel, C.P. and Panno, S.V. (1997). Karst terrains and carbonate rocks of Illinois [map], in Karst regions of Illinois. Illinois State Geological Survey Open File Series 1997-2.

Aerial Photographs

- 2005 ISGS photomosaic
- 1998 ISGS photomosaic
- 1988 Markhurd IL 557 Line 36
- 1970 USDA RR-2LL-60 and 99
- 1964 USDA RR-2EE-196
- 1958 USDA RR-1V-17

1951 USDA RR-3H-25, 26, 141, and 142
1941 USDA RR-2B-137 and 138

Other

Ogden, Jan (March 31, 2010). Written correspondence. Freedom of Information Officer, Illinois Environmental Protection Agency, Bureau of Land, Springfield, Illinois.

APPENDIX

ISGS PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT CHECKLIST

IDOT: NA
 City: Wyanet
 County: Bureau
 Location Coordinates: T16N, R8E, Sections 19 and 20

ISGS: 2191

IDOT District Contact:
 Name: Connie Lindenmier
 Phone: (815) 434-8434

ISGS Lead: D. Adomaitis

Task	Status*	Date	By
Original Material Copied	MF	4/1/10	DJA
<i>IDOT Project Location Database – (All other projects/IDOT sites in the vicinity of the project)</i>			
▶ Other Preliminary Environmental Site Assessments	NF	4/5/10	DJA
▶ Preliminary Site Investigations/Phase II Reports	NF	4/5/10	DJA
▶ Maintenance Facilities	NF	4/5/10	DJA
▶ Permit-Access Agreements	NF	4/5/10	DJA
▶ Draft Highway Authority Agreements/Highway Authority Agreements	NF	4/5/10	DJA
▶ Miscellaneous Sites	NF	4/5/10	DJA
<i>Local Collections</i>			
▶ County	NF	4/5/10	DJA
▶ City	NF	4/5/10	DJA
<i>Geologic Information</i>			
▶ ISGS Stack-Unit Map (GIS)	MF	4/5/10	DJA
▶ ISGS Glacial Drift in Illinois (GIS)	MF	4/5/10	DJA
▶ ISGS Bedrock Geology of Illinois (GIS)	MF	4/5/10	DJA
▶ USDA NRCS Soil Survey Maps	MF	4/5/10	DJA
▶ USDA NRCS Hydric Soils	MF	4/5/10	DJA
▶ USDA NRCS Prime Farmland Soils	MF	4/5/10	DJA
<i>Hydrogeologic Information (non-CE projects only)</i>			
▶ IEPA Restricted Status List	NA	4/5/10	DJA
▶ USGS-IEPA SWAP-IL Public Water Supplies	NA	4/5/10	DJA
▶ ISGS Wells (GIS)	NA	4/5/10	DJA
▶ ISWS Public Water Supply Surface Water Intakes in Illinois (GIS)	NA	4/5/10	DJA
▶ Berg Potential for Aquifer Contamination Map	NA	4/5/10	DJA
▶ Keefer Potential for Aquifer Recharge Map	NA	4/5/10	DJA
▶ Sole Source Aquifer Protection Program	NA	4/5/10	DJA
<i>Hydrogeologic Information (all projects)</i>			
▶ USGS-IEPA SWAP Wellhead Protection	NF	4/6/10	DJA
▶ USGS-IEPA SWAP Fact Sheets /IEPA Well Site Survey Reports	NF	4/6/10	DJA
<i>Historical Records</i>			
▶ Aerial Photographs	MF	4/7/10	DJA
▶ USGS Topographic Maps	MF	4/7/10	DJA
▶ Plat Maps	MF	4/7/10	DJA
▶ Sanborn Fire Insurance Maps: Chadwyck-Healey Inc.	NF	3/28/10	DJA
▶ Sanborn Fire Insurance Maps: University Publications of America	NF	3/28/10	DJA
▶ Sanborn Fire Insurance Maps: Rascher Publishing Company	NF	3/28/10	DJA
▶ City Directories	NF	3/28/10	DJA
▶ Industrial Directories (optional)	NA	3/28/10	DJA
▶ IEPA-ISGS Summary of Former Manufactured Gas Plant Sites (GIS)	NF	4/1/10	DJA
▶ ISGS Draft CERCLIS Site Coverage (GIS)	NF	4/1/10	DJA
▶ ISGS Draft LUST Site Coverage (GIS)	NF	4/1/10	DJA
▶ ISGS Draft Landfill Site Coverage (GIS)	NF	4/1/10	DJA

Task	Status*	Date	By
<i>Federal Records</i>			
‣ CERCLIS (NPL, Active, Archived)	NF	4/7/10	DJA
‣ Mercury Site Lists	NF	4/7/10	DJA
‣ RCRA CORRACTS	NF	4/7/10	DJA
‣ RCRA Non-CORRACTS TSD Facilities	NF	4/7/10	DJA
‣ RCRA (Other)	NF	4/7/10	DJA
‣ ERNS	NF	4/7/10	DJA
‣ Brownfields Pilot Sites	NF	4/7/10	DJA
‣ Toxics Release Inventory	NF	4/7/10	DJA
<i>USEPA Information Request</i>			
‣ Sent	No	3/28/10	DJA
‣ Received			
<i>State Records</i>			
‣ LUST	NF	4/7/10	DJA
‣ UST	NF	4/7/10	DJA
‣ Landfills (GIS)	NF	4/7/10	DJA
‣ Activity and Use Limitations (AULs)	NF	4/7/10	DJA
‣ Brownfields	NF	4/7/10	DJA
‣ IEPA Bureau of Land Inventory	NF	4/7/10	DJA
‣ IEPA Site Remediation Program	NF	4/7/10	DJA
‣ IEMA Incidents	NF	4/7/10	DJA
‣ State Underground Injection Control Inventory	NF	4/7/10	DJA
‣ IEPA Illinois Water Quality Reports	MF	4/7/10	DJA
<i>IEPA BOL Information Request</i>			
‣ Sent	Yes	3/30/10	DJA
‣ Received	Yes	3/31/10	DJA
<i>OSFM Information Request</i>			
‣ Sent	No	3/28/10	DJA
‣ Received			
<i>Local Records</i>			
‣ Fire Department Records (optional)	NA	4/2/10	DJA
<i>Mining Maps and Publications</i>			
‣ ISGS Quadrangle/County On-Line Coal Maps and Directories	NF	4/7/10	DJA
‣ ISGS Non-Coal Underground Mines	NF	4/7/10	DJA
‣ Lead Mining	NF	4/7/10	DJA
<i>Oil and Gas Information</i>			
‣ ISGS Oil and Gas Fields/Oil Wells (ILOIL GIS)	NF	4/6/10	DJA
‣ USDOT OPS Pipeline Integrity Management Mapping Application	NF	4/6/10	DJA
<i>Natural Hazards</i>			
‣ USGS Seismic Risk Map	NF	4/7/10	DJA
‣ FEMA FIRM Maps	MF	4/7/10	DJA
‣ ISGS Landslide Inventory (GIS)	NF	4/7/10	DJA
‣ Weibel Karst Terrains and Carbonate Rocks of Illinois Maps	NF	4/7/10	DJA
‣ USFWS, IDNR, and INHS Illinois Wetlands Inventory (GIS)	MF	4/7/10	DJA

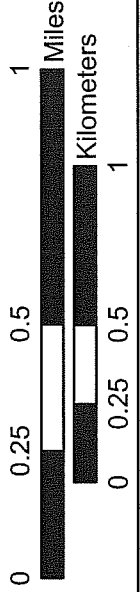
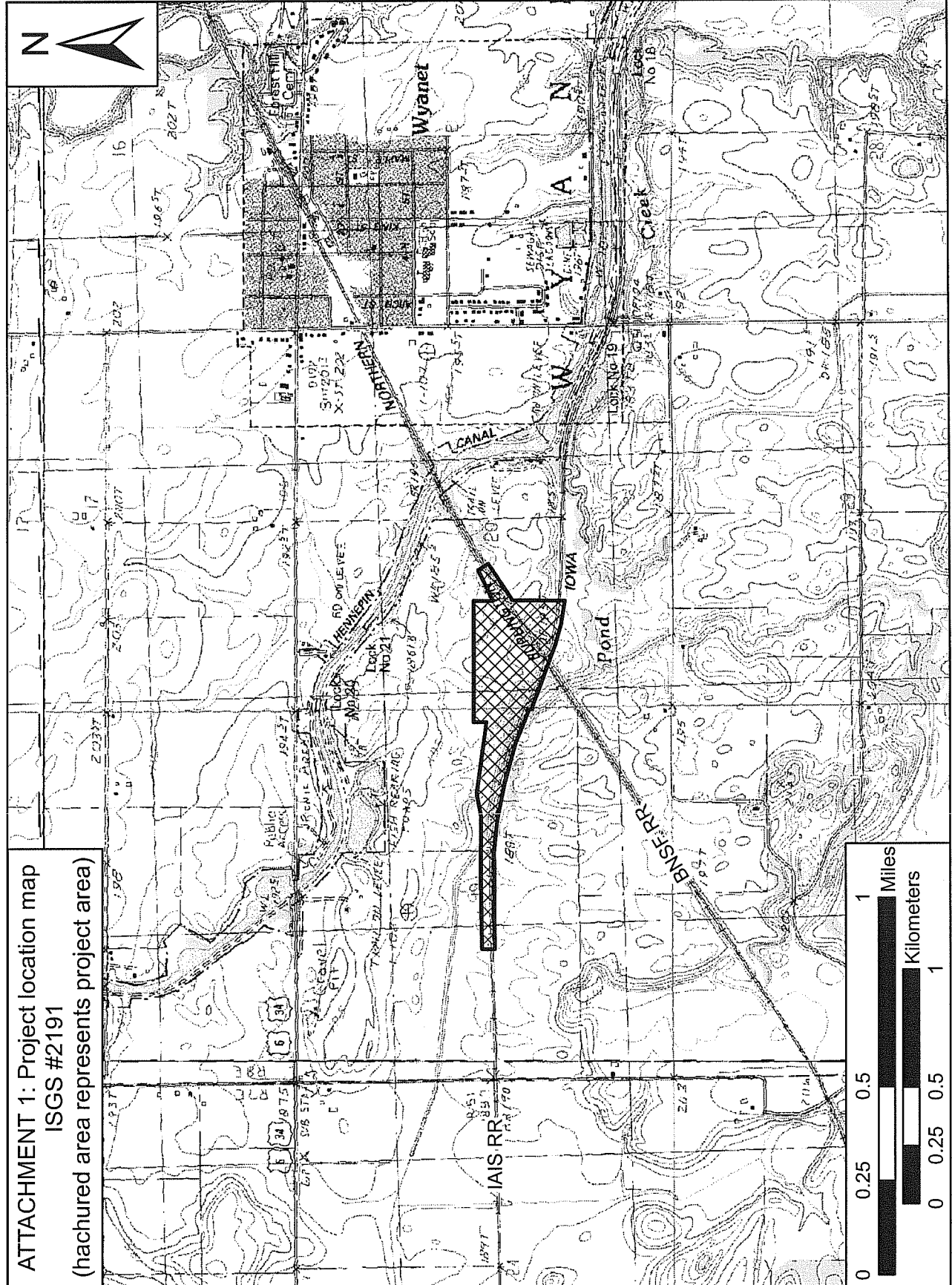
* MF = Material found within search radius; NF = Nothing found within search radius; NA = Not applicable

Date of Records Review Completion: April 7, 2010

LIST OF ATTACHMENTS

1. Project location map, ISGS #2191.
2. Site location map.

ATTACHMENT 1: Project location map
ISGS #2191
(hachured area represents project area)



ATTACHMENT 2: Site location map
ISGS #2191
(Site boundary is approximate and should
not be used as actual parcel boundary)

