

APPENDIX F.6

HISTORIC AND NATURAL AREAS

Illinois Nature Preserves



Commission

One Natural Resources Way
Springfield, IL 62702-1271
217/785-8686

June 14, 2007

Todd Sudmeier
Shaw Environmental, Inc.
1607 E. Main Street, Suite E
St. Charles, IL 60174-2343

Dear Mr. Sudmeier,

I have reviewed the information you provided in your letter dated 06/07/07 regarding the proposed expansion of the Veolia E.S. Zion Landfill in Lake County, Illinois. According to the Illinois Natural Heritage Database, there are no endangered or threatened species, Illinois Natural Areas Inventory (INAI) sites, or Illinois Nature Preserves in the specified area, particularly Township 46 North, Range 12 East, Section 7, 3rd Principal Meridian.

Because there are no nature preserves in the indicated area, the site does not pose a threat to a dedicated nature preserve pursuant to the Illinois Natural Areas Preservation Act (525 ILCS 30).

Please note that my title is now Assistant Director.

Please be aware that the Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of significant natural features in Illinois. The Department of Natural Resources can only summarize the existing information known to us at the time of the request. This report should not be regarded as a final statement on the area being considered, nor should it substitute for field surveys required for environmental assessments.

This letter is separate from the Illinois Department of Natural Resources consultation requirement under the Illinois Endangered Species Act (530 ILCS 10/11) and the Illinois Natural Areas Preservation Act (525 ILCS 30/17). For more information on this process, please contact the Illinois Department of Natural Resources, Division of Resource Review and Coordination, at One Natural Resources Way, Springfield, Illinois 62702-1271 or by telephone at (217)785-5500.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Heidorn', written over a horizontal line.

Randy Heidorn
Assistant Director

RH:tgk

cc: Keith Shank, IDNR, Resource Review & Coordination (w/ attachments)

CH2M HILL TELEPHONE CONVERSATION RECORD

CALL TO: Anne Haaker, Deputy State Historic
Preservation Officer, Illinois Historic
Preservation Agency

PHONE NO.: (217) 782-4836

DATE: 08/21/96

CALL FROM: Cathy Barnett

TIME: 8:45 AM

MESSAGE TAKEN BY: Cathy Barnett

PROJECT NO.:

SUBJECT: BFI Zion Site 3 Area Expansion Permit Application

I called Anne Haaker regarding their review of the Zion site with respect to historic, architectural, and archaeological resources. I said that we had submitted a Phase I survey and that the Historic Preservation Agency had determined that there were no significant historic, architectural, or archaeological resources in the area but that their letter was dated December 1994, outside of the year period requested by the regulators.

Anne asked if the site had changed in the interim. I said no, that the delay was just due to time required for permitting. She said that she considered the existing letter sufficient and would not require additional review of the site since the site plans had not changed. Her office is backed up and she would be unable to provide an additional review at this time. She said to have the regulatory agency contact her if they had any questions regarding this.

c: Jim Lewis/BFI
Phil Stecker/CH2M HILL



Illinois Historic Preservation Agency

Old State Capitol • Springfield, Illinois 62701 • (217) 782-4836

217/785-4997

LAKE COUNTY
Zion
Landfill Expansion

December 8, 1994

Mr. James T. Ambrose
Browning-Ferris Industries
1827 Walden Office Square, Suite 100
Schaumburg, Illinois 60173

Dear Sir:

Thank you for submitting the results of the archaeological reconnaissance. The Illinois Historic Preservation Agency is required by the Illinois State Agency Historic Resources Preservation Act (20 ILCS 3420, 1992) to review all state funded, permitted or licensed undertakings for their effect on cultural resources.

Our staff has reviewed the archaeological Phase I reconnaissance report performed for the project referenced above.

The Phase I survey and assessment of the archaeological resources appear to be adequate. Accordingly, we have determined, based upon this report, that no significant historic architectural, and archaeological resources are located in the surveyed area.

Please retain this letter in your files as evidence of compliance with the Illinois State Agency Historic Resources Preservation Act.

Sincerely,

Anne E. Haaker
Deputy State Historic
Preservation Officer

AEH:JKJ

cc: Dr. Paul P. Kreisa, PSAP

PLEASE REFER TO:
IHPA LOG #941020006J-L
Public Service Archaeology
Program (PSAP)
Acres: 110.0 Sites: 1
Isolated Finds: 1

EXHIBIT



Shaw® Shaw Environmental, Inc.

A World of Solutions™

June 7, 2007

Mr. Randy Heidorn, Deputy Director
Illinois Nature Preserves Commission
One Natural Resources Way
Springfield, IL 62702-1271

COPY

Subject: Compliance with the Illinois Natural Areas Preservation Act

Dear Mr. Heidorn:

I am requesting written documentation that a proposed expansion of the Veolia E.S. Zion Landfill will be in compliance with the Illinois Natural Areas Preservation Act. The facility is located in Lake County.

The facility is generally located in Section 7 of Township 46 North, Range 12 East of the Third Principal Meridian. The approximate facility location is shown on the enclosed figure.

If you require any additional information, please contact me at (630) 762-1400.

Thank you for your assistance.

Sincerely,

Shaw Environmental, Inc

Todd Sudmeier
Engineer

Attachments



Illinois Historic Preservation Agency

1 Old State Capitol Plaza • Springfield, Illinois 62701-1512 • www.illinois-history.gov

De Kalb County

PLEASE REFER TO: IHPA LOG #021082307

East side of North Kenosha Road and north of 9th Street, Section: 7 & 8 Township: 46N Range: 12E
Landfill Development/Veolia E.S. Zion Landfill, Inc.

September 20, 2007

Mr. Richard Southorn
Law Environmental, Inc.
Project Manager
37 East Main Street, Suite E
Springfield, Illinois 60174-2343

Dear Sir:

Reference: 26.29 Site(s): 0
Archaeological Contractor: AA/Kullen

Thank you for submitting the results of the archaeological reconnaissance. Our comments are required by Section 106 of the National Historic Preservation Act of 1966, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties".

Our staff has reviewed the archaeological Phase I reconnaissance report performed for the project described above. The Phase I survey and assessment of the archaeological resources appear to be complete. Accordingly, we have determined, based upon this report, that no significant historic, architectural, and archaeological resources are located in the project area.

Please submit a copy of this letter with your application to the state or federal agency from which you obtain any permit, license, grant, or other assistance. Please retain this letter in your files as evidence of compliance with Section 106 of the National Historic Preservation Act of 1966, as amended.

Sincerely,

Anne E. Haaker
Deputy State Historic
Preservation Officer

AEH

cc: Douglas Kullen, Allied Archeology

REPORT OF ARCHEOLOGICAL SURVEY 2007 PHASE I INVESTIGATION

Prepared for:
Veolia E. S. Zion Landfill, Inc.

Allied Archeology
239 S. Calumet Avenue
Aurora, Illinois 60506

ARCHAEOLOGICAL SURVEY SHORT REPORT
Illinois Historic Preservation Agency
1 Old State Capitol Plaza
Springfield, Illinois 62701 (217/785-4997)

REVIEWER _____
Date: _____
Accepted _____ Rejected _____
IHPA USE ONLY (Form ASSR0886)

IHPA Log # _____

Locational Information and Survey Conditions

County: Lake
Quadrangle: Zion, 7.5' series Project Type/Title: Future Development, Veolia Environmental Services, Lake County, Illinois.
Funding and/or Permitting Federal/State Agencies: U. S. E. P. A.; I. E. P. A.
Sections: 7 and 8 T.: 46N R.: 12E Natural Division (No.): _____
U.T.M.: Zone 16; 4703351-4703713mN, 428573-429077mE
Project Description: Future development on 26.29 acres of fallow farm field, existing wholesale nursery, and existing residential lots.
Topography: Upland plain.
(Soils) Pella & Peotone silty clay loams; Markham, Montmorenci, Wauconda, Grays & Corwin silt loams.
Drainage: East and south to Kellogg Ravine; Lake Michigan drainage system.

Land Use/Ground Cover (Include % Visibility): About 11.2 acres of fallow farm fields (0% ground surface visibility); about 5 acres of residential lots, about 0.5 acres of wet areas with marsh grass, and about 9.6 acres of existing wholesale nursery.

Survey Limitations: Soils within the existing nursery were severely disturbed by grading, filling, mulching, rutting, intensive planting, outbuilding construction, and numerous driveways, parking lots, and equipment marshalling areas. Parts of residential lots were disturbed by construction, driveways, and septic fields. Wet areas contained saturated and/or marsh soils. These areas were not shovel tested.

Archaeological and Historical Information

Historic Plats/Atlases/Sources: IHPA project records and site files; old county plats.

Previously Reported Sites: None in project area. Eight isolated prehistoric artifacts and small prehistoric sites and four historic farmsteads reported within a one mile radius.

Previous Surveys: None in project area proper. Six previous surveys by Public Service Archaeology Program and the Chicago District U. S. Army Corps of Engineers within a one mile radius covered 519 acres to the west, north, and east (Adams 1995; McDowell 1994; McGowan 1996, 2002a, 2002b; Ryder 1988).

Regional Archaeologists Contacted: self (Kullen)

Investigation Techniques: Standard screened shovel testing at 15 meter grid intervals.

Time Expended: 11 man-days.

Sites/Find Spots Located: None.

Cultural Material: None (Curated At): N/A

Collection Techniques: N/A

Area Surveyed (Acres & Square Meters): About 26.29 acres (106,392m² or 10.6 hectares)

(OVER)

Results of Investigation and Recommendations: (Check One)

- ☒ Phase I Archaeological Reconnaissance Has Located No Archaeological Material; Project Clearance Is Recommended.
- ☐ Phase I Archaeological Reconnaissance Has Located Archaeological Materials; Sites Do Not Meet Requirements For National Register Eligibility; Project Clearance Is Recommended.
- ☐ Phase I Archaeological Reconnaissance Has Located Archaeological Materials; Site(s) May Meet Requirements For National Register Eligibility; Phase II Testing Is Recommended.
- ☐ Phase II Archaeological Investigation Has Indicated That Site(s) Does (Do) Not Meet Requirements For National Register Eligibility; Project Clearance Is Recommended.
- ☐ Phase II Archaeological Investigation Has Indicated That Site(s) Meet Requirements For National Register Eligibility; Formal Report Is Pending And A Determination Of Eligibility Is Recommended.

Comments: Standard structures within the nursery all appear to be modern. Most structures in the nursery are less than 10 years old. Residential structures date no earlier than c.1950 and are typical suburban tract houses of the post-World War II period. Some have been substantially modified. All structures are described in the appended discussion.

Archaeological Contractor Information:

Archaeological Contractor: Allied Archeology

Address/Phone: 239 S. Calumet Avenue, Aurora, Illinois 60506 (630) 896-9375

Surveyors: Douglas Kullen, Matt Greby, Nicole Bauer, and Karen Righeimer

Survey Dates: September 7, 8, and 11, 2006, and April 30, May 1, and June 18, 2007

Report Completed By: Douglas Kullen Date: June 22, 2007

Submitted By (Signature and Title):  Principal Investigator

Attachment Check List: (#1 Through #4 Are MANDATORY)

- ☒ 1) Relevant Portion of USGS 7.5' Topographic Quadrangle Map(s) Showing Project Location and Any Recorded Sites.
- ☒ 2) Project Map(s) Depicting Survey Limits and, When Applicable, Approximate Site Limits, and Concentrations of Cultural Materials;
- ☐ 3) Site Form(s); Two Copies of Each Form;
- ☐ 4) All Relevant Project Correspondence;
- ☒ 5) Additional Information Sheets As Necessary.

Address of Owner/Agent/Agency to Whom SHPO Comment Should Be Mailed:

Veolia ES Solid Waste, Inc.

W144 S6350 College Court, P. O. Box 456

Muskego, WI 53150

Contact Person: Mr. Randy Frank Phone Number: 262-971-1391

Reviewer's Comments:

DISCUSSION

Standing Structures in the Survey Area

Numerous standing structures were present in the nursery and residential portions of the survey area. In the nursery, none of these structures appeared to be more than 20 years old, and most looked to be less than ten years old. None of the residential structures appeared to have been built earlier than circa 1950. The listings which follow are keyed to locations marked in Figure 3. Photographs of structures appear in Figures 9 through 51.

1. Pavilion (Figures 9 and 10). This is a post-and-beam frame construct that rests on a concrete pad. It has a sheet metal roof. The structure was designed to be portable, as sections are held together with bolts. A nursery workman indicated that it was built around 2004.
2. Modified barn (Figures 11, 12, and 13). This frame structure has an asphalt shingled roof and rests on a concrete slab. It was used as a garden shop.
3. Gothic shed (Figure 14). This small frame outbuilding has a cedar shingled roof, but no foundation.
4. Cupola barn (Figures 15 and 16). This frame building rests on a concrete foundation. The roof is asphalt shingled. A nursery worker said it was approximately 11 years old.
5. Morton building (Figures 17 and 18). This building is used as an office. It is sheathed in steel siding and roofing, and rests on a concrete slab. A nursery worker said it was approximately four years old.
6. Permanent greenhouse (Figure 19). This is the only greenhouse at the nursery built on a concrete foundation. It has opaque plastic walls and roof.
7. Portable greenhouses (Figures 20). The photograph depicts an example of these structures. There are almost two dozen such greenhouses present in the nursery. All are less than ten years old. They are designed to be dismantled and rebuilt as needed.
8. One-storey frame residence with attached two-car garage at 42666 N. Kenosha Road (Figures 21 and 22). This house is built on concrete foundation walls and is covered in vinyl siding. It appears to have been built circa 1980.
9. One-storey brick residence at 42774 N. Kenosha Road (Figures 23 and 24). This house was built in 1950, according to a resident.
10. Frame 2½ car garage with screened-in, enclosed porch addition at 42774 N. Kenosha Road (Figures 25 and 26). The garage appears to date to circa 1960.
11. Frame shed at 42774 N. Kenosha Road (Figures 27 and 28). The shed dates to circa 1960.
12. Frame workshop at 42774 N. Kenosha Road (Figures 29 and 30). It dates to circa 1960.

13. Split-level frame residence at 42820 N. Kenosha Road (Figures 31 and 32). This house was built in 1977 according to the owner.
14. Frame two-car garage at 42820 N. Kenosha Road (Figures 33 and 34). The garage is sheathed in aluminum siding and was built circa 1977.
15. Frame shed at 42820 N. Kenosha Road (Figures 35 and 36). This shed was built circa 1977.
16. Prefabricated steel shed at 42820 N. Kenosha Road (Figures 35 and 36). It dates to around 1985.
17. Frame ranch house at 42834 N. Kenosha Road (Figures 37 and 38). This house was built on a cinder block foundation and is covered in Masonite siding. It was built circa 1955. There is a lean-to porch addition in the rear.
18. Frame 2½ car garage built on a slab foundation and sheathed in Masonite siding at 42834 N. Kenosha Road (Figures 39 and 40). This garage appears to have been built around 1970.
19. Prefabricated steel shed resting on wooden pallets at 42834 N. Kenosha Road (Figure 41). This shed appears to have been built around 1970.
20. Frame kennel at 42834 N. Kenosha Road (Figures 42 and 43). Built on concrete foundation walls and sheathed in Masonite siding. Kennel stalls built of cinder block. It was built circa 1965.
21. Small pole barn shed at 42834 N. Kenosha Road (Figures 44 and 45). This barn has plywood and steel siding, no floor. It was built circa 1960.
22. One-storey frame ranch house at 42872 N. Kenosha Road (Figures 46 and 47). This house is built on concrete foundation walls. Enclosed breezeway connects house to two-car frame garage built on concrete slab. House, breezeway, and garage all sheathed in aluminum siding. House built c.1950, garage built c.1970, and breezeway built c.1980.
23. Frame gambrel-roofed shed at 42834 N. Kenosha Road (Figures 48 and 49). Built on piers with Masonite siding. This shed dates to c.1960.
24. Frame two-storey gambrel-roofed barn/garage at 42834 N. Kenosha Road (Figures 50 and 51). Built on concrete slab foundation and sheathed in vinyl siding. This structure dates to c.1960.

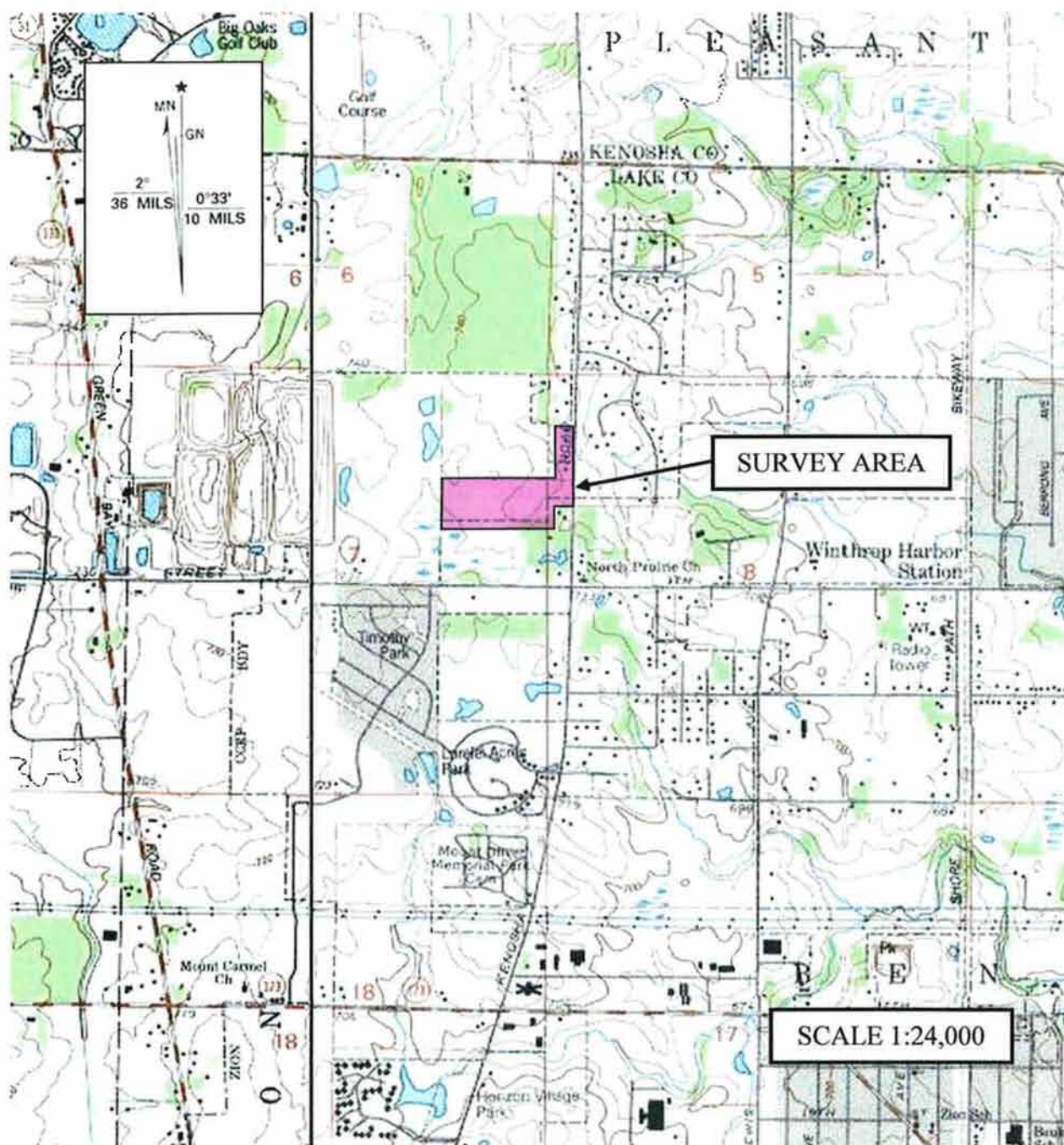


FIGURE 1

Future Development, Veolia ES Zion Landfill
 Secs. 7 & 8-T46N-R12E, Lake County, Illinois
 USGS 7.5' Series Zion Quadrangle
 Allied Archeology Job No. AA-06-11
 No Significant Cultural Resources Encountered



ZION, ILL.—WIS.
 NE/4 WAUKEGAN 15' QUADRANGLE
 42087-D7-TF-024

1993

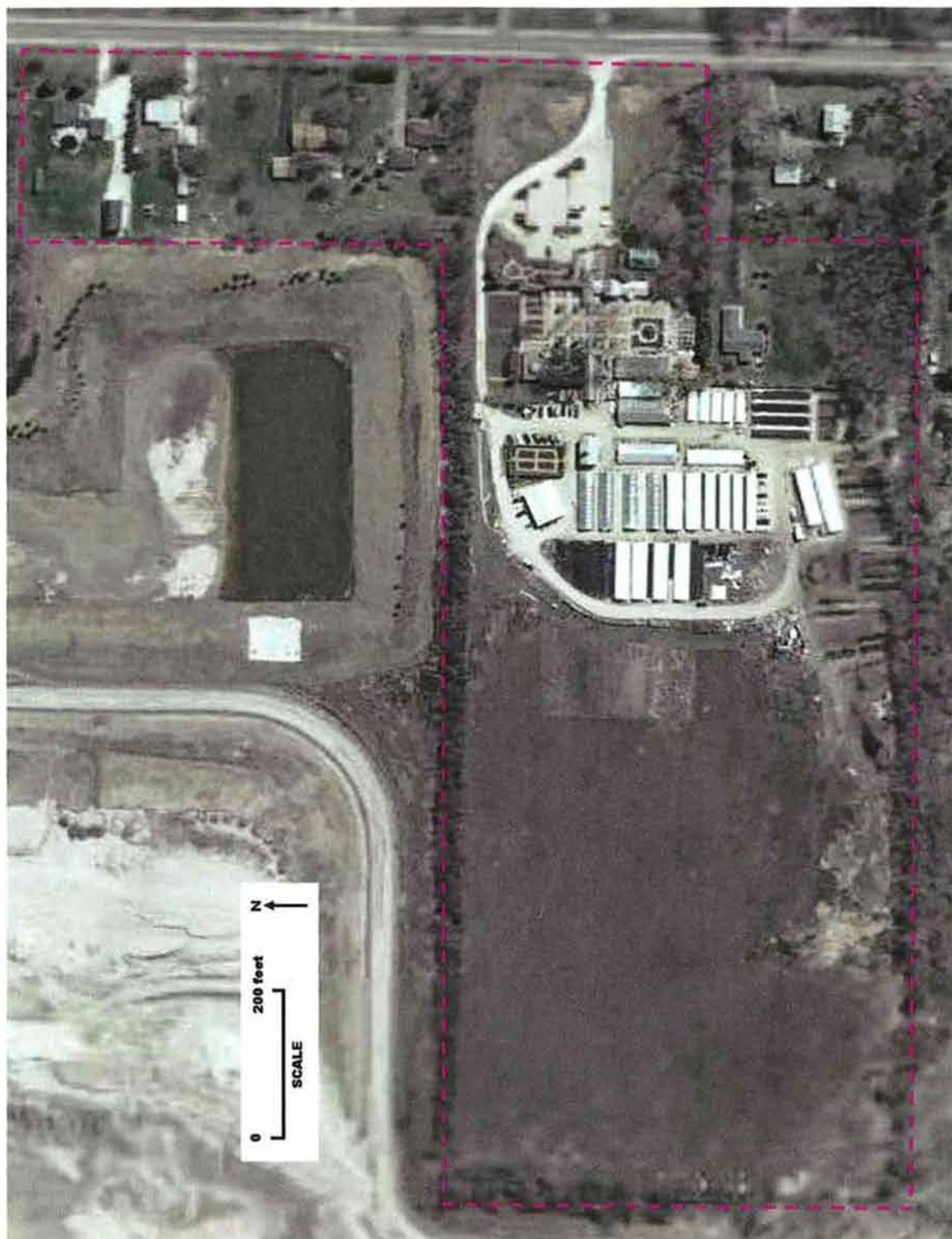


FIGURE 2
Air Photomap of the Survey Area (outlined).

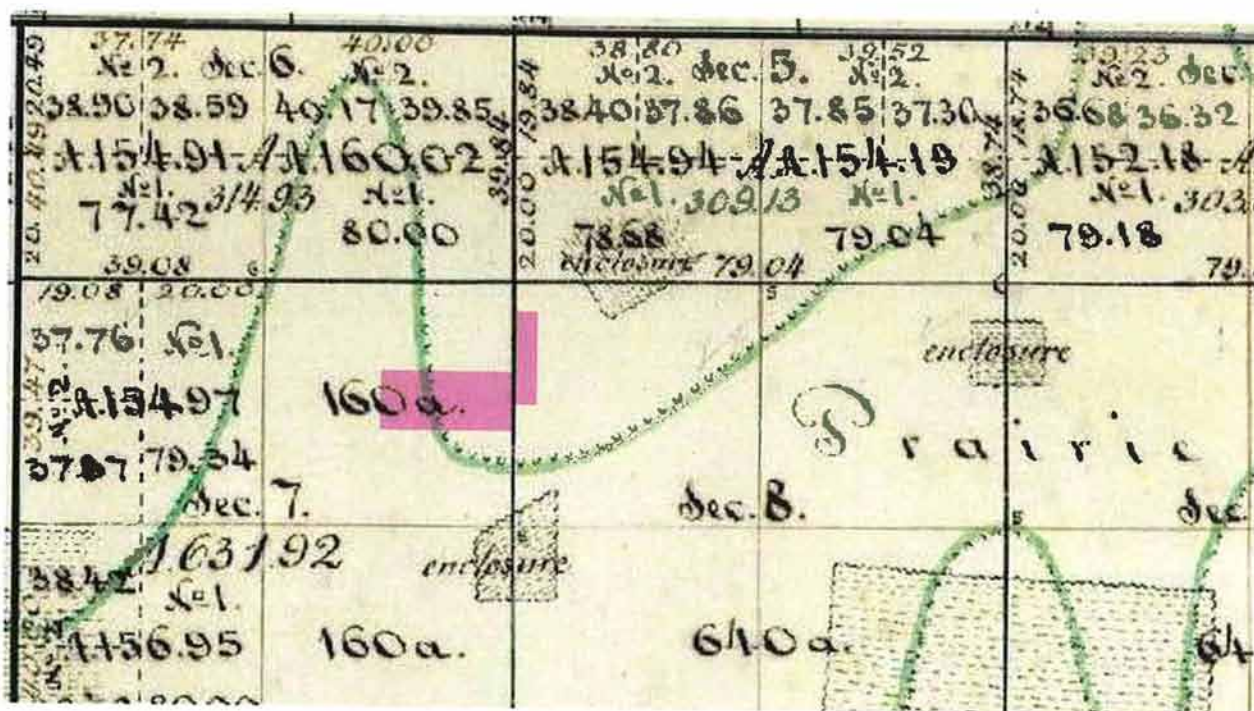


FIGURE 4

Location of survey area on the General Land Office map (USGLO 1840).

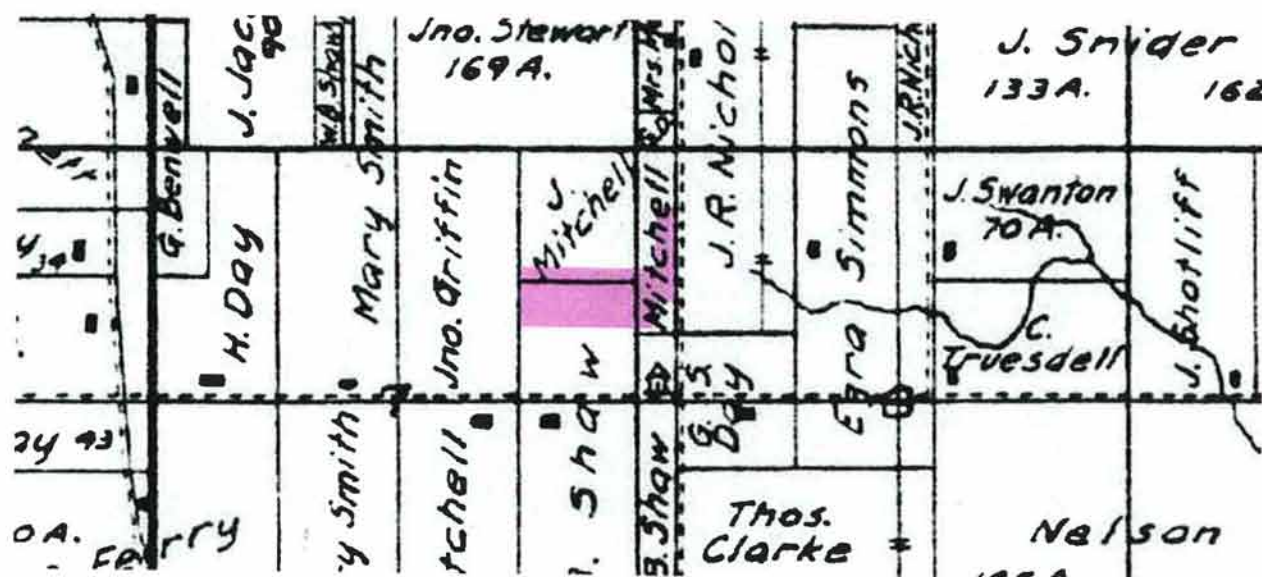


FIGURE 5

Location of survey area on the 1861 Lake County plat (Hale and Truesdell 1861).



FIGURE 9
View of pavilion (Structure #1) looking southwest.



FIGURE 10
View of pavilion (Structure #1) looking north.



FIGURE 11
View of modified barn (Structure #2) looking northeast

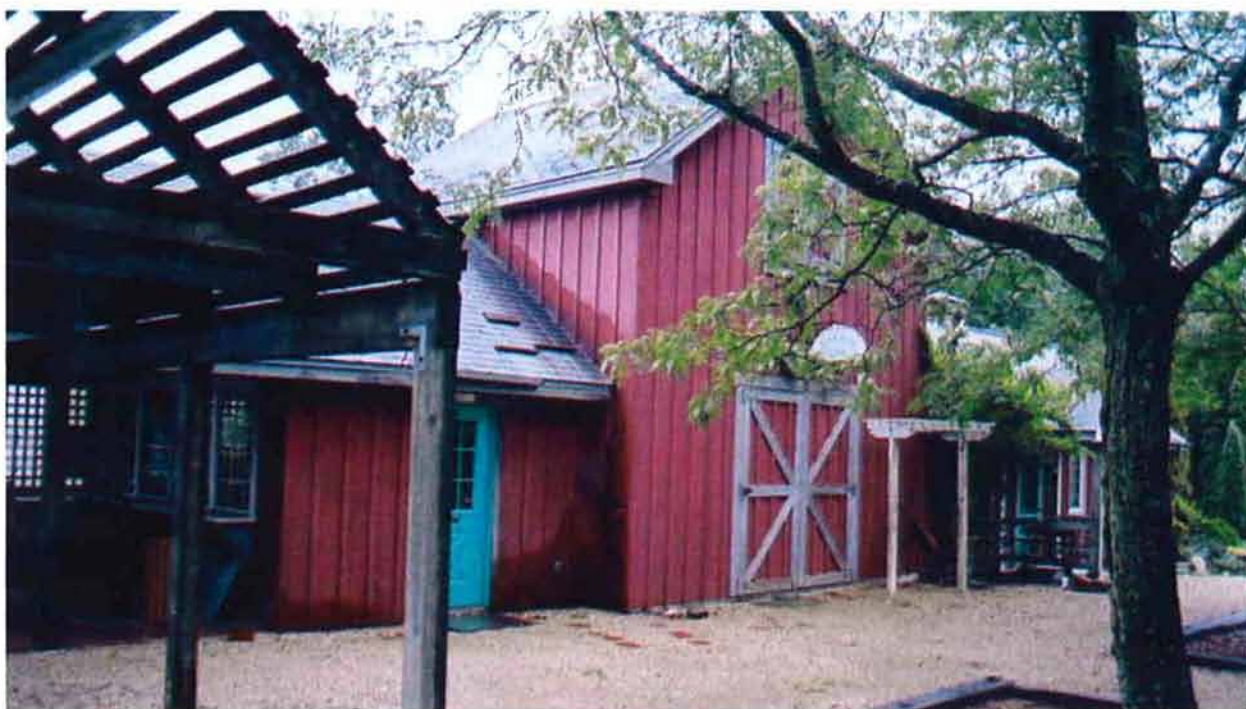


FIGURE 12
View of modified barn (Structure #2) looking southeast.



FIGURE 13
View of modified barn (Structure #2) looking southwest.



FIGURE 14
View of Gothic shed (Structure #3) looking southeast.



FIGURE 15
View of cupola barn (Structure #4) looking northwest.



FIGURE 16
View of cupola barn (Structure #4) looking southeast.



FIGURE 17
View of Morton building (Structure #5) looking east.



FIGURE 18
View of Morton building (Structure #5) looking south.



FIGURE 19
View of greenhouse with concrete foundation (Structure #6), looking northeast.



FIGURE 20
View of portable greenhouse (Structure #7, typical).



FIGURE 21

View of the front of the frame residence (Structure #8) at 42666 N. Kenosha Road, looking northwest.



FIGURE 22

View of the rear of the frame residence (Structure #8) at 42666 N. Kenosha Road, looking northwest.



FIGURE 23

View of the front of the brick residence (Structure #9) at 42774 N. Kenosha Road, looking southwest.



FIGURE 24

View of the rear of the brick residence (Structure #9) at 42774 N. Kenosha Road, looking southwest.



FIGURE 25

View of the front of the garage with add-on enclosed porch (Structure #10) at 42774 N. Kenosha Road, looking southwest.



FIGURE 26

View of the rear of the garage and add-on enclosed porch (Structure #10) at 42774 N. Kenosha Road, looking northeast.



FIGURE 27

View of the front of the frame shed (Structure #11) at 42774 N. Kenosha Road, looking northwest.



FIGURE 28

View of the rear of the frame shed (Structure #11) at 42774 N. Kenosha Road, looking southeast.



FIGURE 29

View of the front of the workshop (Structure #12) at 42774 N. Kenosha Road, looking southwest.



FIGURE 30

View of the front and side of the workshop (Structure #12) at 42774 N. Kenosha Road, looking northwest.



FIGURE 31

View of the front of the frame residence (Structure #13) at 42820 N. Kenosha Road, looking southwest.



FIGURE 32

View of the rear of the frame residence (Structure #13) at 42820 N. Kenosha Road, looking northeast.



FIGURE 33

View of the front of the frame garage (Structure #14) at 42820 N. Kenosha Road, looking southwest.



FIGURE 34

View of the rear of the frame garage (Structure #14) at 42820 N. Kenosha Road, looking northeast.



FIGURE 35

View of the front of the frame shed (Structure #15) and steel shed (Structure #16) at 42820 N. Kenosha Road, looking southeast.



FIGURE 36

View of the rear of the frame shed (Structure #15) and steel shed (Structure #16) at 42820 N. Kenosha Road, looking northwest.



FIGURE 37

View of the front of the frame residence (Structure #17) at 42834 N. Kenosha Road, looking northwest.



FIGURE 38

View of the rear of the frame residence (Structure #17) at 42834 N. Kenosha Road, looking southeast.



FIGURE 39

View of the front of the frame garage (Structure #18) at 42834 N. Kenosha Road, looking northwest.



FIGURE 40

View of the rear of the frame garage (Structure #18) at 42834 N. Kenosha Road, looking southeast.



FIGURE 41
View of the steel shed (Structure #19) at 42834 N. Kenosha Road, looking northwest.



FIGURE 42
View of the front of the kennel (Structure #20) at 42834 N. Kenosha Road, looking northeast.



FIGURE 43

View of the rear of the kennel (Structure #20) at 42834 N. Kenosha Road, looking southwest.



FIGURE 44

View of the front of the pole barn shed (Structure #21) at 42834 N. Kenosha Road, looking northwest.



FIGURE 45

View of the rear of the pole barn shed (Structure #21) at 42834 N. Kenosha Road, looking southeast.



FIGURE 46

View of the front of the residence and attached garage (Structure #22) with enclosed breezeway at 42872 N. Kenosha Road, looking northwest.



FIGURE 47

View of the rear of the residence and attached garage with enclosed breezeway (Structure #22) at 42872 N. Kenosha Road, looking northwest.



FIGURE 48

View of the front of the gambrel-roofed shed (Structure #23) at 42872 N. Kenosha Road, looking southwest.



FIGURE 49

View of the rear of the gambrel-roofed shed (Structure #23) at 42872 N. Kenosha Road, looking northeast.



FIGURE 50

View of the front of the gambrel-roofed barn/garage (Structure #24) at 42872 N. Kenosha Road, looking northwest.



FIGURE 51

View of the side and rear of the gambrel-roofed barn/garage (Structure #24) at 42872 N. Kenosha Road, looking southeast.

REFERENCES

Adams, Brian

- 1995 Archaeological Reconnaissance for the Proposed Country Wood Hills Subdivision in Lake County, Illinois (Illinois Historic Preservation Agency Document Number 7068). *PSAP Project No. 95-72*. Public Service Archaeology Program, Department of Anthropology, University of Illinois, Urbana, Illinois.

Frost and McLennan

- 1873 *Map of Lake County, Illinois* [wall map]. Frost & McLennan, Publishers, Chicago.

Hale, George, and J. M. Truesdell

- 1861 *Map of Lake County, Illinois* [wall map]. L. Gast Brothers and Company, Lithographers. St. Louis, Missouri.

McDowell, Jacqueline M.

- 1994 Archaeological Investigations for Proposed Expansion to a BFI Waste Management Landfill in Lake County, Illinois (IHPA Doc. No. 6073). *PSAP Project No. 94-23*. Public Service Archaeology Program, Department of Anthropology, University of Illinois, Urbana, Illinois.

McGowan, Kevin P.

- 1996 Archaeological Reconnaissance of 130 Acres for a Zion Park District Acquisition in Lake County, Illinois (IHPA Doc. No. 9813). *PSAP Project No. 96-67*. Public Service Archaeology Program, Department of Anthropology, University of Illinois, Urbana, Illinois.

- 2002a Archaeological Reconnaissance of the Prairie Ridge Estates Development in Lake County, Illinois (IHPA Doc. No. 12527). *PSAP Project No. 02-050*. Public Service Archaeology Program, Department of Anthropology, University of Illinois, Urbana, Illinois.

- 2002b Archaeological Reconnaissance of a Proposed 120-Acre Development in Winthrop Harbor in Lake County, Illinois (IHPA Doc. No. 12901). *PSAP Project No. 02-079*. Public Service Archaeology Program, Department of Anthropology, University of Illinois, Urbana, Illinois.

Ogle, George A., and Company

- 1907 *Standard Atlas of Lake County, Illinois*. George A. Ogle and Company, Chicago.

Page, H. R.

- 1885 *Illustrated Atlas of Lake County, Illinois*. H. R. Page, Publisher, Chicago.

Paschke, John E., and John D. Alexander

- 1970 Soil Survey of Lake County, Illinois. *Illinois Agricultural Experiment Station Soil Report 88*.

Ryder, Keith

- 1988 Pedestrian Reconnaissance of Site 4 (Waukegan CDF Project), in Lake County, Illinois (IHPA Doc. No. 14198). U. S. Army Corps of Engineers, Chicago District, Chicago, Illinois.

United States General Land Office

- 1840 Township No. 46 North of the Base line in Range No. 12 East of the 3rd principal Meridian. Surveyors Office, St. Louis.

Willman, H. B.

- 1971 Summary of the Geology of the Chicago Area. *Illinois State Geological Survey Circular 460*.



Illinois Historic Preservation Agency

Old State Capitol • Springfield, Illinois 62701 • (217) 782-4836

LAKE COUNTY
Zion Solid Waste Management Facility
Proposed landfill expansion

IHPA LOG #921130005C-L

December 7, 1992

Mr. Philip Stecker, P.E.
Project Manager
CH2M HILL
310 West Wisconsin Avenue, Suite 700
PO Box 2090
Milwaukee, Wisconsin 53201-2090

Dear Mr. Stecker:

Thank you for requesting information on historic properties within the above referenced project area. Our files do not identify any previously recorded historic or archaeological sites within the area. Consequently, this project is exempt from review pursuant to the Illinois State Agency Historic Resources Preservation Act (Il. Rev. Stat. 1991, ch. 127, pars. 133c21 et seq.).

However, we would recommend a Phase I archaeological reconnaissance survey of any areas which have not been disturbed by previous landfill operations. This general area has numerous previously recorded archaeological sites and there may be unrecorded sites within the proposed expansion area.

If you have any questions, please contact Paula Cross, Senior Staff Archaeologist, Illinois Historic Preservation Agency, Old State Capitol, Springfield, Illinois 62701 at 217/785-4998.

Sincerely,

William L. Wheeler
State Historic Preservation Officer

WLW:pgc

*Illinois Historic Preservation Agency
Archaeological Survey Short Report*

**ARCHAEOLOGICAL INVESTIGATIONS
FOR PROPOSED EXPANSION TO A BFI
WASTE MANAGEMENT LANDFILL IN
LAKE COUNTY, ILLINOIS**

PSAP Project No. 94-23

for submission to:

Mr. James Ambroso
BFI Zion Landfill
701 Green Bay Road
Zion, Illinois 60099

by:

Jacqueline M. McDowell
Staff Archaeologist

PUBLIC SERVICE ARCHAEOLOGY PROGRAM

Department of Anthropology
109 Davenport Hall
607 South Mathews Avenue
University of Illinois at Urbana-Champaign
Urbana, Illinois 61801

20 June 1994

ARCHAEOLOGICAL SURVEY SHORT REPORT
Illinois Historic Preservation Agency
Old State Capitol Building
Springfield, Illinois 62701 (217/785-4997)

IHPA Log # 921130005C-L

Locational Information and Survey Conditions

County: Lake

Quadrangle: Zion 7/5' series

Project Type/Title: Zion Solid Waste Management Facility Proposed
Landfill Expansion

Funding and/or Permitting Federal/State Agencies:

IHPA
(I.E., CoE, HUD, IEPA, FmHA, etc.)

Sec: 7

T.: 46N

R.: 12E

Natural Division (No.): 3a

U.T.M.: N. 4703100 - N. 4703900 / E. 428160 - E. 428920

Project Description: BFI Waste Management plans to expand its landfill facility near Winthrop Harbor in Lake County. The maximum dimensions of the project area are 800-x-740 m (Figure 1).

Topography: The project area is located in glacial uplands near existing wetlands and former ponds. An unnamed branch of Kellogg Ravine is near the project area.

Soils: See Continuation Sheet

Drainage: Unnamed Branch-Kellogg Ravine-Lake Michigan

Land Use/Ground Cover (Include % Visibility): At the time of survey, approximately 30% of the project area was a disked corn field with 6" plants and 90-100% visibility. Roughly 5% of the area was previously a corn field that is now covered with grass and weeds with 30% visibility. (See Continuation Sheet)

Survey Limitations: None

Archaeological and Historical Information

Historic Plats/Atlases/Sources: See Selected Sources.

Previously Reported Sites: 11-L-172 is within 1.5 km of the project area.

Previous Surveys: See Selected Sources.

Regional Archaeologists Contacted: None: PSAP commonly works in this area.

Investigation Techniques: Pedestrian reconnaissance was conducted at 5-m intervals in areas with more than 25% visibility. A posthole test was excavated on a rise in the area covered by weeds.

Time Expended: 14 field hours

Sites/Find Spots Located: 11-L-384; 11-L-11-IF

Cultural Material: lithic debris (See Comments)

(Curated at) UIUC

Collection Techniques: Total collection of prehistoric materials.

Areas Surveyed (Acres & Square Meters): 110 acres (445,170 sq. m.)

(OVER)

CONTINUATION SHEET

SOILS

A number of soils are present in the project area. These are as follows: Wauconda silt loam, 0-2% slopes; Grays silt loam, 0-2% slopes; Grays silt loam, 2-4% slopes; Montmorenci silt loam, 2-4% slopes; Montmorenci silt loam, 4-7% slopes, eroded; Beecher silt loam, 2-4% slopes; Morley silt loam, 2-4% slopes; Grays and Markham silt loams, 2-4% slopes; Peotone silty clay loam; and Pella silty clay loam (Paschke and Alexander 1970).

LAND USE/GROUND COVER

Four percent of the project area is existing wetlands and was not surveyed. Additionally, one percent of the project area contained a house and outbuildings surrounded by residential lawn and gravel drive. This area was not surveyed. Sixty percent of the project area was existing borrow that had been completely disturbed. This area was documented but not surveyed (Figure 2).

COMMENTS

visibility ranged from 30-100 percent in the surveyed areas. The wetlands and residential lot were not surveyed. The existing borrow area was documented but not surveyed. Pedestrian survey was conducted at 5-m intervals in the surveyed areas. Additionally, one posthole test was excavated on a small rise in the weedy portion of the project area. It showed a plow zone to wetland soil transition. One prehistoric site (11-L-384) and one isolated find (11-L-11-IF) were identified in the project area.

Site 11-L-384 is located in the northeast part of the project area in an agricultural field currently planted in corn (Figures 1 and 2). It is a small lithic scatter on a slight rise, measuring approximately 40-x-15-m in size. Recovered material was limited to one core, one primary flake, two secondary flakes, three bifacial thinning flakes, two broken flakes, and five pieces of block shatter. A posthole test placed in the site area showed a plow zone to subsoil transition. Given the limited number of artifacts and the lack of intact soil deposits, the site does not appear to meet the eligibility requirements for listing on the National Register of Historic Places. No further work is recommended.

Isolated Find 11-L-11-IF is also located in the northeast part of the project area in an agricultural field currently planted in corn (Figures 1 and 2). The find consists of a single broken flake found near a slight rise in the field. Despite intensive survey around the find with excellent surface visibility, no additional materials were located. Given this, the isolated find does not appear to meet the eligibility requirements for listing on the National Register of Historic Places, and no additional work is recommended.

One residential structure with outbuildings is located in the project area. A color slide of the house has been provided with this report to the Illinois Historic Preservation Agency. The structure does not appear to be eligible for listing on the National Register of Historic Places.

Additionally, the historic records research for this project did not reveal any early structures in the project area.

The Phase I investigation of this area revealed that no potentially significant cultural resources will be impacted by the proposed project. Project clearance is recommended.

ZION QUADRANGLE
ILLINOIS—WISCONSIN
7.5 MINUTE SERIES (TOPOGRAPHIC)

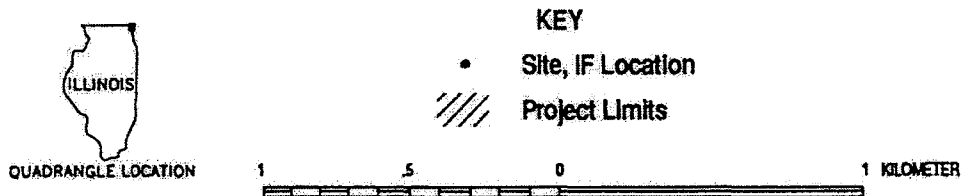
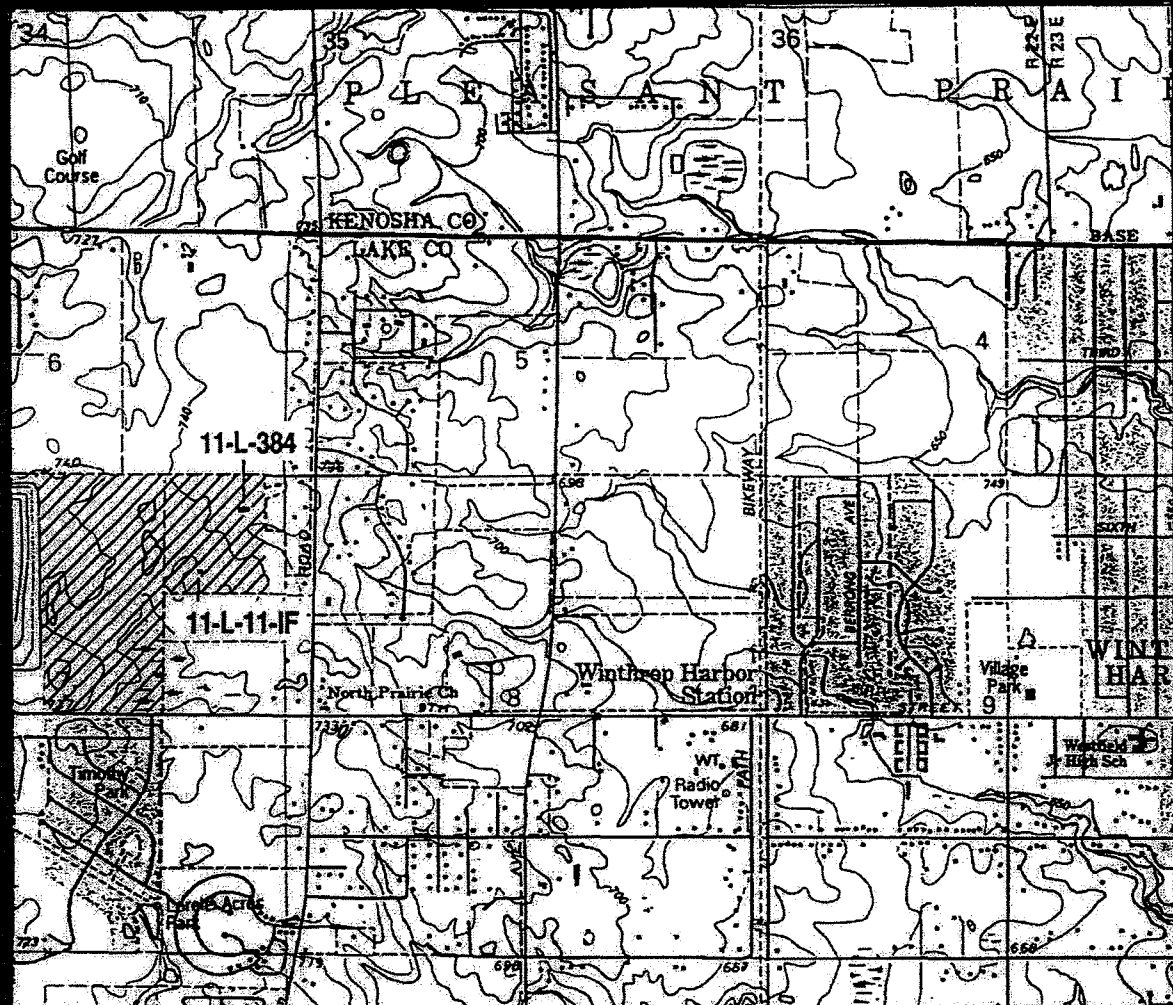


Figure 1. Location of Project Area and Sites.

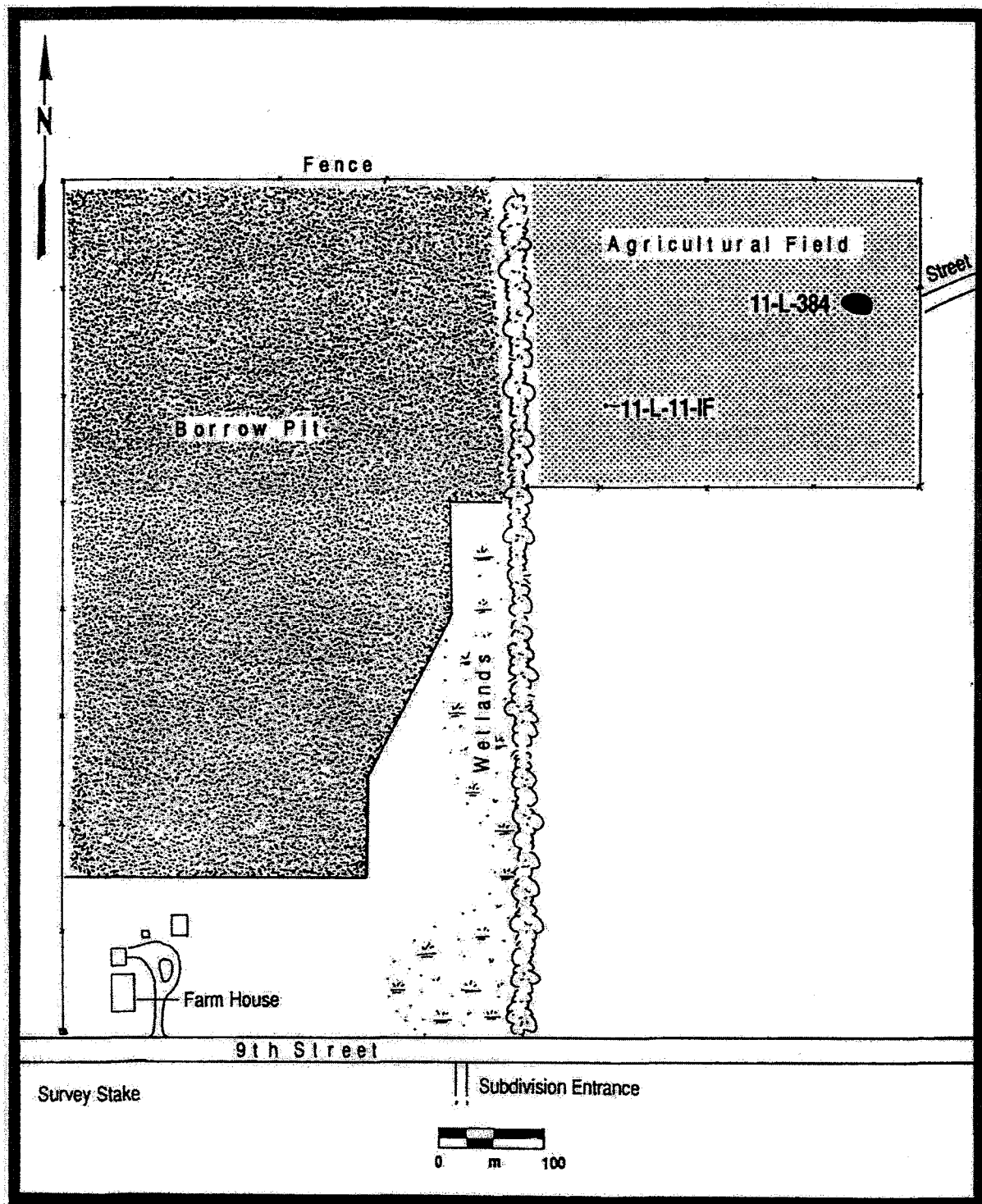


Figure 2. Sketch Map of Project Area.

SELECTED SOURCES

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- 1994 *Archaeological Reconnaissance of the Proposed Providence Oaks Development in Gurnee, Illinois*. Public Service Archaeology Program. Archaeological Survey Short Report submitted to the Illinois Historic Preservation Agency, Springfield, 17 May 1994.

Bateman, Newton, Paul Selby, and Charles A. Partridge

- 1902 *Historical Encyclopedia of Illinois*. Munsell Publishing Company, Chicago.

Berkson, Alice, Claire Branch, Marjorie Cigoy, Richard Edging, Susan Novak, Cynthia Boyes, Allen Samet, and Bruce White

- 1980 *An Archaeological Reconnaissance of the Proposed FAP 420/432 Corridor in McHenry, Lake, and Cook Counties, Illinois*. Ms. on file, Illinois Archaeological Survey, Urbana, Illinois.

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- 1981 *Predictive Models in Illinois Archaeology: Report Summaries*. Illinois Department of Conservation, Springfield.

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- 1907 *Standard Atlas of Lake County, Illinois*. George A. Ogle and Company, Chicago.

Halsey, John J.

- 1912 *A History of Lake County, Illinois*. Roy S. Bates, Chicago.

Illinois Archaeological Survey, Urbana, Illinois

Illinois Historical Survey, Urbana, Illinois

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- 1989 Horticultural Technology and Social Interaction at the Edge of the Prairie Peninsula. *Illinois Archaeology* 1:101-120.

Kullen, Douglas

- 1990 Excavations at Primavilla, A PaleoIndian and Archaic Site in Lake County, Illinois. *The Wisconsin Archeologist* 71:172-191.

McDowell, Jacqueline M.

- 1994 *Archaeological Reconnaissance of the Proposed Wind Dance Development in Lake Villa, Illinois*. Public Service Archaeology Program. Archaeological Survey Short Report submitted to the Illinois Historic Preservation Agency, Springfield, 29 April 1994.

McGowan, Kevin P.

1994a *Archaeological Reconnaissance of the Proposed Pine View Estates Unit II in Lake Villa, Illinois*. Public Service Archaeology Program. Archaeological Survey Short Report submitted to the Illinois Historic Preservation Agency, Springfield, 24 March 1994.

1994b *Archaeological Reconnaissance of the Proposed IMA Development in Vernon Hills, Illinois*. Public Service Archaeology Program. Archaeological Survey Short Report submitted to the Illinois Historic Preservation Agency, Springfield, 23 March 1994.

Paschke, John E., and John D. Alexander

1970 *Soil Survey of Lake County, Illinois*. United States Department of Agriculture, Soil Conservation Service. Government Printing Office, Washington, D.C.

William Le Baron and Company

1877 *The Past and Present of Lake County, Illinois*. William Le Baron and Company, Chicago.

ILLINOIS ARCHAEOLOGICAL SURVEY SITE FORMS

ILLINOIS ARCHAEOLOGICAL SURVEY

Recorded

Survey No. 11-L-384

County Lake

Reg. Inst. No. 94-23: AOS 1

Twp. Benton

Culture Unknown Prehistoric

Quadrangle Zion 7.5' series

Type of site Lithic Scatter

Legal Description (1/4's) SW1/4, NE1/4, NE1/4, NE1/4
(align NE corner)

Sec. 7 Twp. 46N Range 12E

Site owner

U.T.M. Center Point - N. 4703780, E. 428850

Site address

Previous owners

Present tenant

Directed to site by

Mapped by K. McGowan

Extent of site (area and depth) Approximately 40 m e-w by 15 m n-s; depth unknown

Previous excavation none

Pitting none

ENVIRONMENT

Topography and Location The site is located on a glacial upland rise at 225.5 m asl near existing wetlands and former small ponds. The site is 200 m west of Kenosha Road and 920 m south of the Lake County border.

Water supply Unnamed former pond is 340 m west. Branch of Kellogg Ravine is 760 m west.

Drainage Kellogg Ravine-Lake Michigan

Nearby sites 11-L-172 is within 1.5 km

Modern occupation (building, plowing, etc.) Agricultural field

Type of soil Wauconda silt loam, 0-2% slopes (Paschke and Alexander 1970)

Ground cover Plowed agricultural field with 6" corn plants

MATERIAL FROM SITE

| | |
|--------------------|----------------------------|
| 1 core | 3 bifacial thinning flakes |
| 1 primary flake | 2 broken flakes |
| 2 secondary flakes | 5 block shatter |

Surface coll. K. McGowan et al.

Date 6-10-94

Institution UIUC

Tested by

Date

Institution

Excavated by

Date

Institution

Nature and extent of survey - Field conditions

Pedestrian reconnaissance was conducted at 5-m intervals in the project area. Surface visibility was approximately 80-100%. A total collection of prehistoric material was made.

Curation UIUC

MATERIAL REPORTED AS BELONGING TO SITE

Owner of Material

Certainty of Origin

Site reported by Jacqueline McDowell

Date 6-14-94

Visited

Survey report by Jacqueline McDowell

Date 6-15-94

Publications: Archaeological Survey Short Report currently in preparation for the Illinois Historic Preservation Agency

Photos: Project and site area was documented with color slides

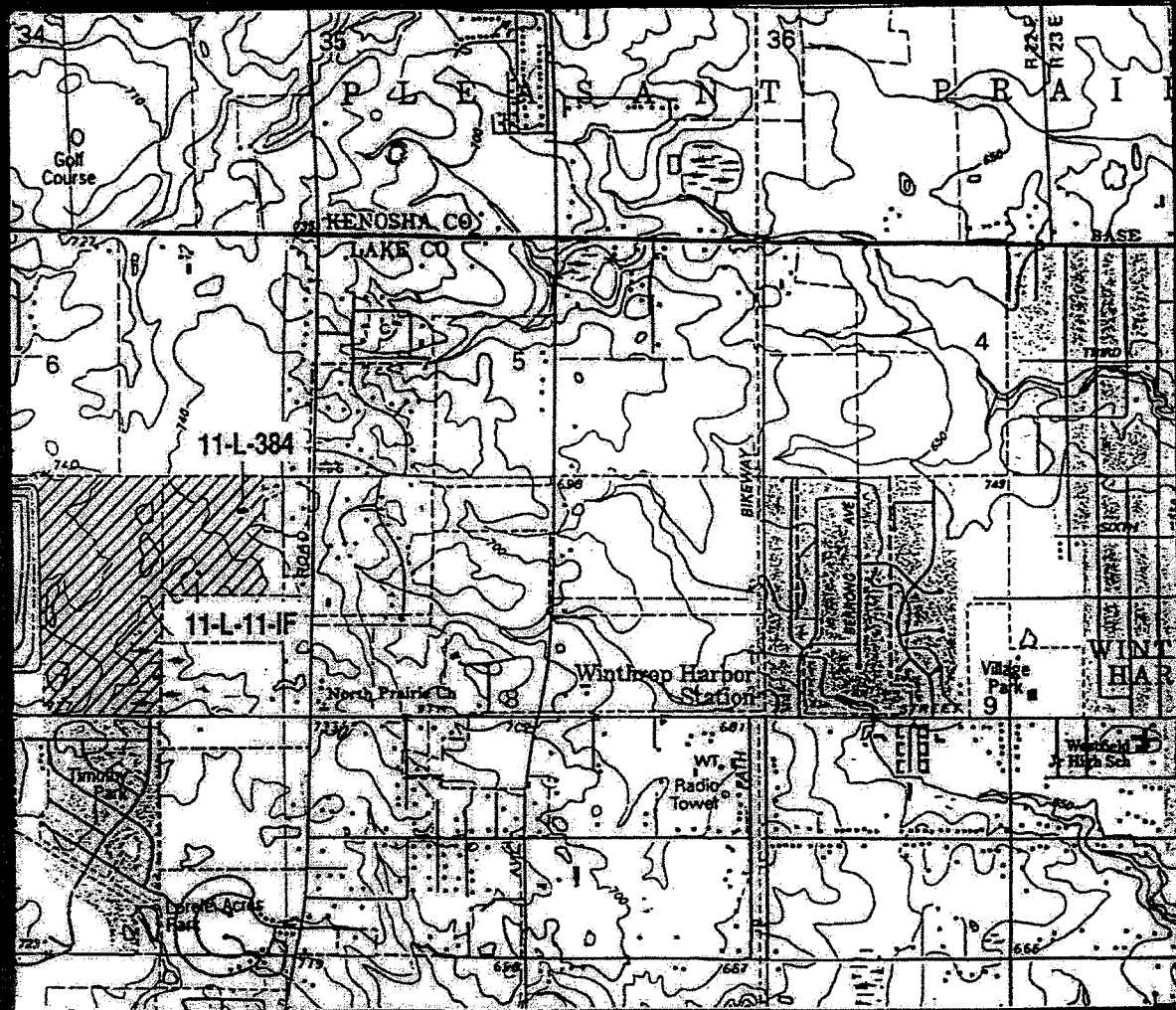
Study status: No further work is recommended.

Remarks:

This prehistoric site was located by the Public Service Archaeology Program during a Phase I survey for BFI Industries for proposed expansion to the BFI Industries land fill near Winthrop Harbor, Illinois. No diagnostic material was recovered from the site that would provide specific temporal or cultural placement. One posthole was excavated in the project area that indicated a plow zone to subsoil transition. No further work is recommended.

Sketch map and artifact drawings.

ZION QUADRANGLE
ILLINOIS—WISCONSIN
7.5 MINUTE SERIES (TOPOGRAPHIC)

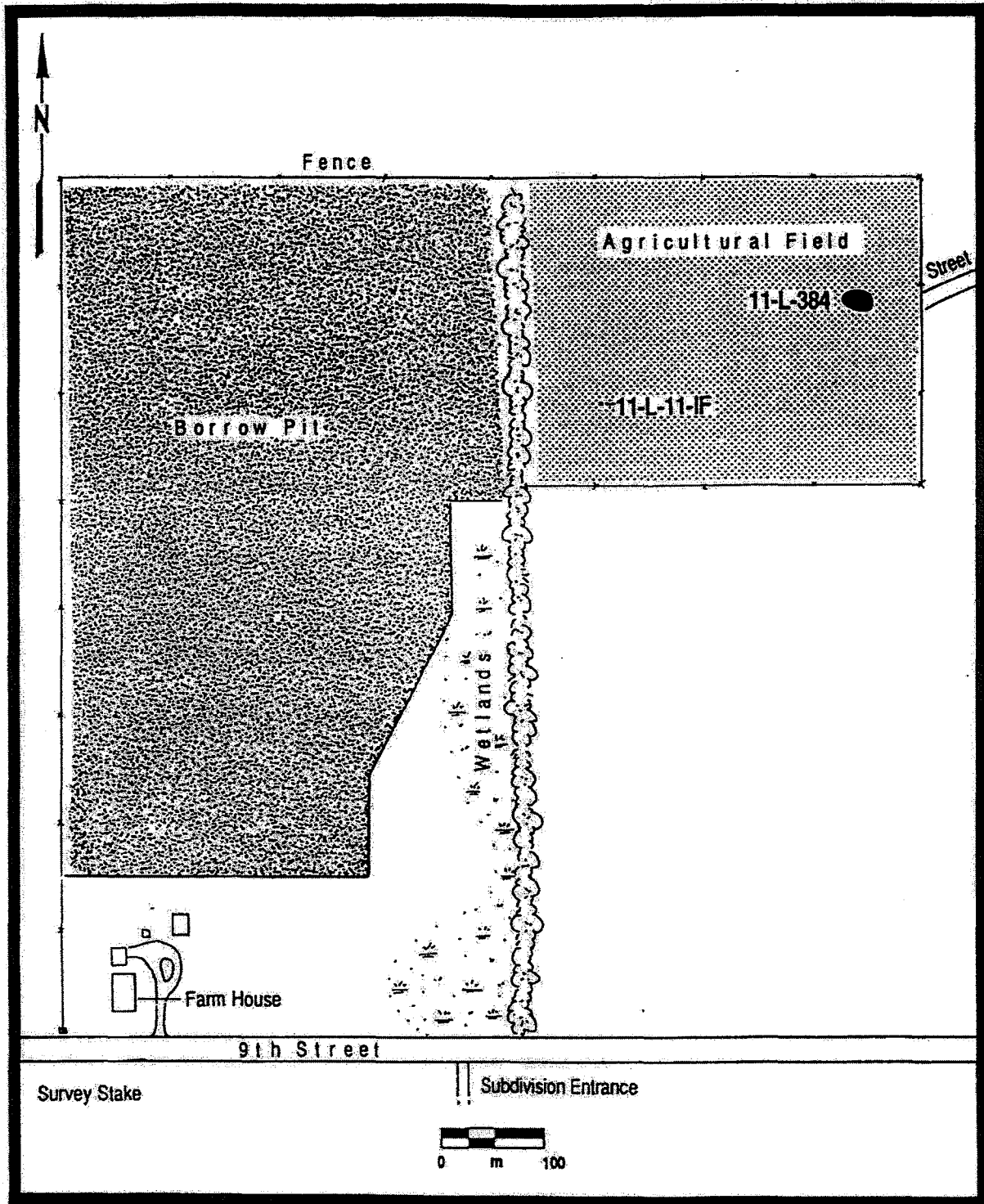


QUADRANGLE LOCATION

KEY

- Site, IF Location
- //// Project Limits





ILLINOIS ARCHAEOLOGICAL SURVEY

Recorded

Survey No. 11-L-11-IF

County Lake

Reg. Inst. No. 94-23: AOS 2

Twp. Benton

Culture Unknown Prehistoric

Quadrangle Zion 7.5' series

Type of site Isolated Find

Legal Description (1/4's) SE1/4, SW1/4, NE1/4, NE1/4
(align NE corner)

Sec. 7 Twp. 46N Range 12E

Site owner

U.T.M. Center Point - N. 4703580, E. 428690

Site address

Previous owners

Present tenant

Directed to site by

Mapped by K. McGowan

Extent of site (area and depth) Isolated find: depth unknown

Previous excavation none

Pitting none

ENVIRONMENT

Topography and Location The find is located on a glacial upland rise at 225.5 m asl near existing wetlands and former small ponds. The site is 380 m west of Kenosha Road and 1.1 km south of the Lake County border.

Water supply Unnamed former pond is 140 m west. Branch of Kellogg Ravine is 530 m west.

Drainage Kellogg Ravine-Lake Michigan

Nearby sites 11-L-172 is within 1.5 km

Modern occupation (building, plowing, etc.) Agricultural field

Type of soil Wauconda silt loam, 0-2% slopes (Paschke and Alexander 1970)

Ground cover Plowed agricultural field with 6" corn plants

MATERIAL FROM SITE

1 broken flake

Surface coll. K. McGowan et al.

Date 6-10-94

Institution UIUC

Tested by

Date

Institution

Excavated by

Date

Institution

Nature and extent of survey - Field conditions

Pedestrian reconnaissance was conducted at 5-m intervals in the project area. Surface visibility was approximately 80-100%. A total collection of prehistoric material was made.

Curation UIUC

MATERIAL REPORTED AS BELONGING TO SITE

Owner of Material

Certainty of Origin

Site reported by Jacqueline McDowell

Date 6-14-94

Visited

Survey report by Jacqueline McDowell

Date 6-15-94

Publications: Archaeological Survey Short Report currently in preparation for the Illinois Historic Preservation Agency

Photos: Project area was documented with color slides

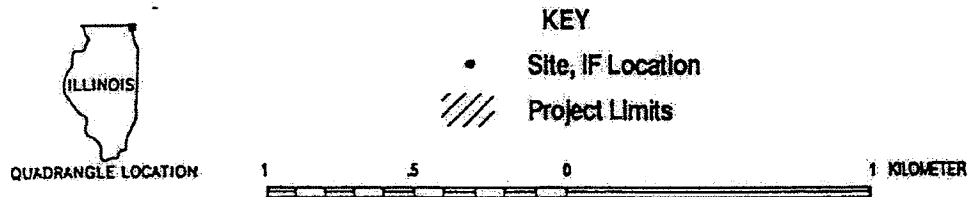
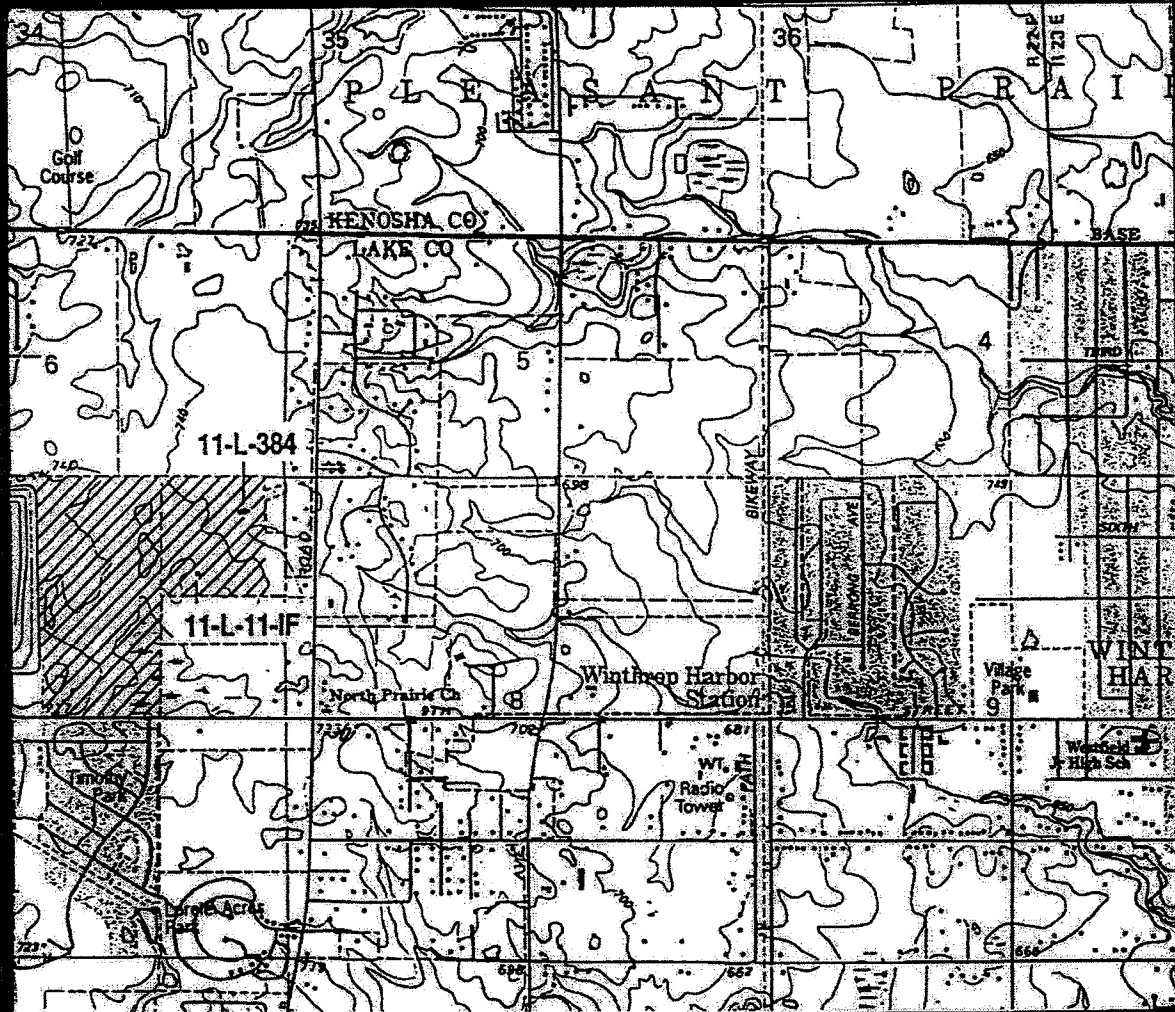
Study status: No further work is recommended.

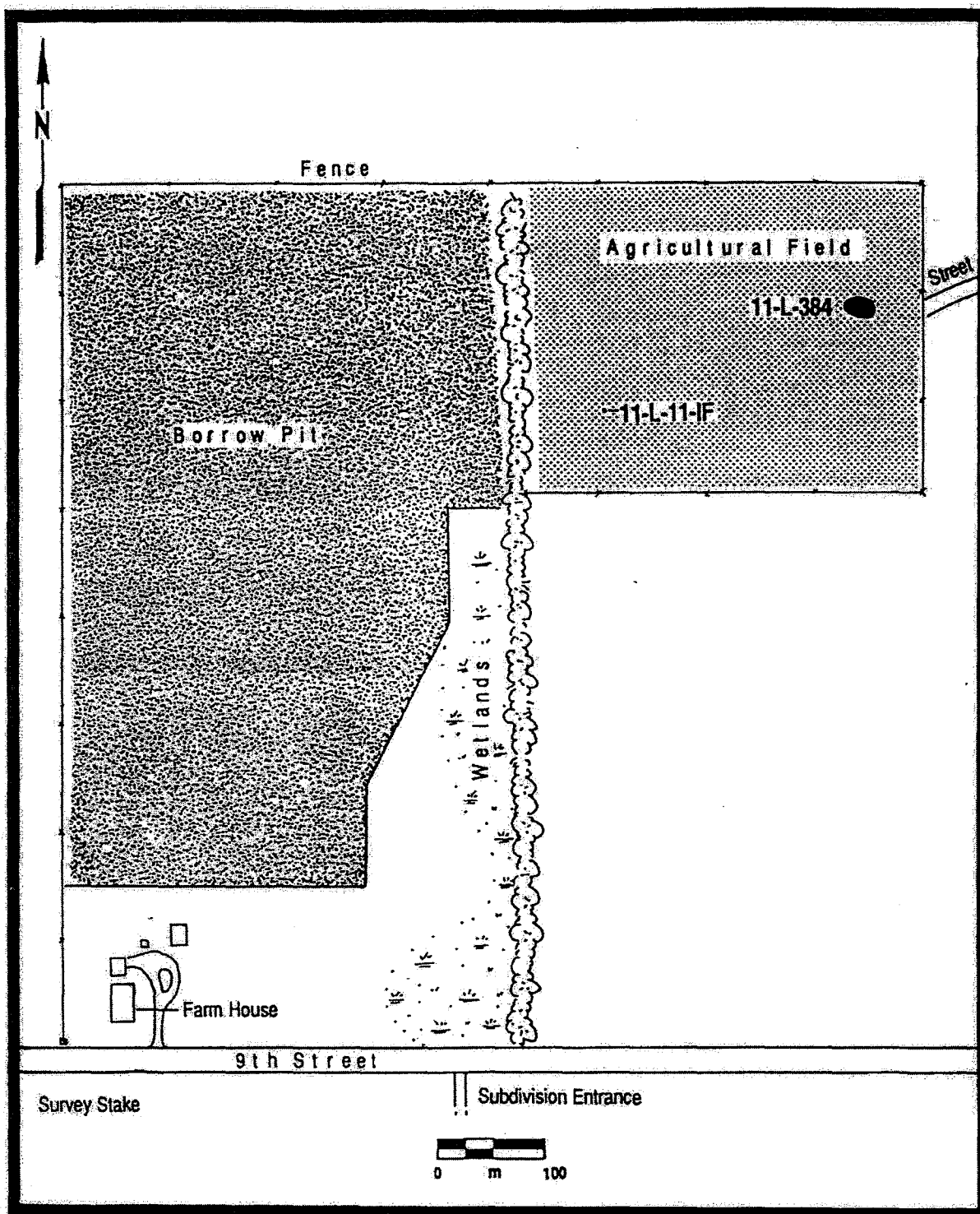
Remarks:

This isolated find was located by the Public Service Archaeology Program during a Phase I survey for BFI Industries for proposed expansion to the BFI Industries land fill near Winthrop Harbor, Illinois. No diagnostic material was recovered from the site that would provide specific temporal or cultural placement. Given that only one broken flake was recovered despite intensive survey with excellent visibility, no further work is recommended.

Sketch map and artifact drawings.

ZION QUADRANGLE
ILLINOIS—WISCONSIN
7.5 MINUTE SERIES (TOPOGRAPHIC)





PROJECT CORRESPONDENCE



University of Illinois at Urbana-Champaign
Department of Anthropology
109 Davenport Hall
607 South Mathews Avenue
Urbana, Illinois 61801

Dr. Kevin P. McGowan, Coordinator
Phone 217-333-1636
FAX 217-244-1911

from: Paul Kreisa, U of I

4 pages
(including cover sheet)

to: Mr. Sam Ambrose
BFI Industries
(815) 874-5341

May-12-1994

- As I mentioned to you, we could potentially do this project as early as next week. The budget has been prepared for a 50-acre survey.

Jim Ambrose
BFI Zion Landfill
701 Green Bay Rd
Zion, IL.

60099

**PROPOSAL FOR PHASE I ARCHAEOLOGICAL SURVEY OF 110 ACRES
NEAR ZION, LAKE COUNTY, ILLINOIS**

For Submission To:

**Mr. James Ambroso
BFI Industries**

By:

**Department of Anthropology
109 Davenport Hall
Public Service Archaeology Program
University of Illinois at Urbana-Champaign
Urbana, Illinois 61801**

**Project Period: 5/12/94 - 6/12/94
Amount Proposed: \$2900**

PROPOSAL FOR PHASE I ARCHAEOLOGICAL SURVEY OF 110 ACRES NEAR ZION, LAKE COUNTY, ILLINOIS

This is a proposal and cost estimate for a Phase I archaeological survey of 110 acres that are located in near Zion in Lake County, Illinois. The project is being conducted in advance of the BFI Landfill Expansion for BFI Industries. The Phase I investigation techniques proposed herein are in accordance with guidelines established by the Illinois Historic Preservation Agency (IHPA) regarding archaeological surveys in Illinois. This particular project will be conducted using personnel from the Department of Anthropology, University of Illinois at Urbana-Champaign, with Dr. Thomas Riley serving as Principal Investigator. Project direction and report preparation will be done by Dr. Kevin McGowan.

RESEARCH METHODOLOGY

The archaeological reconnaissance survey of the 110 acres will be carried out in three phases:

1. A literature and records search of the history, prehistory and environment will be conducted at the Illinois Archaeological Survey, the Illinois Historical Survey and the University of Illinois Library in Urbana, Illinois. It is estimated that this phase of the project will be conducted in a single day by one researcher.

2. A surface reconnaissance of the 110 acres will be conducted to identify archaeological sites within the project area. The exact nature of the survey will depend on ground surface conditions within the project area. In accordance with IHPA guidelines, a pedestrian reconnaissance at five-meter intervals will be conducted in recently plowed locations with greater than 25 percent surface visibility, while for any locations with less than 25 percent surface visibility, a shovel probe or posthole survey set in a 15-meter grid will be employed.

3. An Illinois Historic Preservation Agency ASSR report (Archaeological Survey Short Report) will be prepared that outlines the findings of both the records and field research. This report will include a project description and an assessment of the archaeological resources, if any, located within the project area. It also will include completed Illinois Archaeological Survey site forms, if needed, and recommendations concerning the need for additional investigations.

PERSONNEL AND SCHEDULING

Prior to fieldwork, one day will be spent researching records at the University of Illinois library, the Illinois Historical Survey and the Illinois Archaeological Survey. Efforts will be directed to evaluating soils and other environmental characteristics and to identifying potential locations of former historic structures within the 110 acre project area. This will be performed by a single individual in one day.

The Phase I survey for the project will be conducted by a crew of eight individuals after the acceptance of this proposal, dependent upon weather conditions and landowner permission. It is anticipated that the survey of all 110 acres can be completed in a single day. Based on conversations with Mr. James Ambroso of BSI Industries, it is anticipated that roughly 50% of the survey area has already been disturbed. Following fieldwork, artifacts will be processed and site numbers will be requested, if necessary. This part of the project should not take more than one week to complete.

An ASSR report will be completed for the project area within two weeks of completion of the fieldwork. Attached is a budget proposal for the 110-acre project area. All archaeological materials found and documentation of this project will be curated by the Laboratory of Anthropology, Department of Anthropology, University of Illinois at Urbana-Champaign.

BUDGET PROPOSAL
(Project 94-23)

DIRECT COSTS

Personnel

| | |
|---|--------|
| Project Director (24 hrs @ \$18.51) | \$ 444 |
| Archaeological Technicians (40 hrs @ \$10.50) | \$ 420 |
| Hourly Workers (100 hrs @ \$9.00) | \$ 900 |

| | |
|----------------|----------|
| Total Salaries | \$ 1,764 |
|----------------|----------|

| | |
|-----------------------------------|----------|
| Fringe Benefits: 7.66% of \$1,764 | \$ 135 |
| Total Salaries & Fringes | \$ 1,899 |

Other Direct Costs

| | |
|--|--------|
| Expendable Supplies (Photocopies, Postage, etc.) | \$ 85 |
| Transportation (300 miles @ \$0.355 van rate) | \$ 107 |

| | |
|---------------------------|-----------------|
| TOTAL DIRECT COSTS | \$ 2,091 |
|---------------------------|-----------------|

INDIRECT COSTS

| | |
|---------------------------------------|--------|
| 38.7% (Other Sponsored Research Rate) | \$ 809 |
|---------------------------------------|--------|

| | |
|--------------------|-----------------|
| TOTAL COSTS | \$ 2,900 |
|--------------------|-----------------|

JUN 2 '94 11:51

PAGE.001

MALLARD LAKE LANDFILL

E & E HAULING, INC.

26 W 580 SCHICK ROAD • HANOVER PARK, IL 60103-6721 • PHONE: (708) 894-9000 • FAX: (708) 894-9089

TO: Paul Kreisa

FAX #: 217-244-1911

FROM: Jim Ambrosio

DATE: 6/2/94 TIME: _____

PAGE ONE OF 4

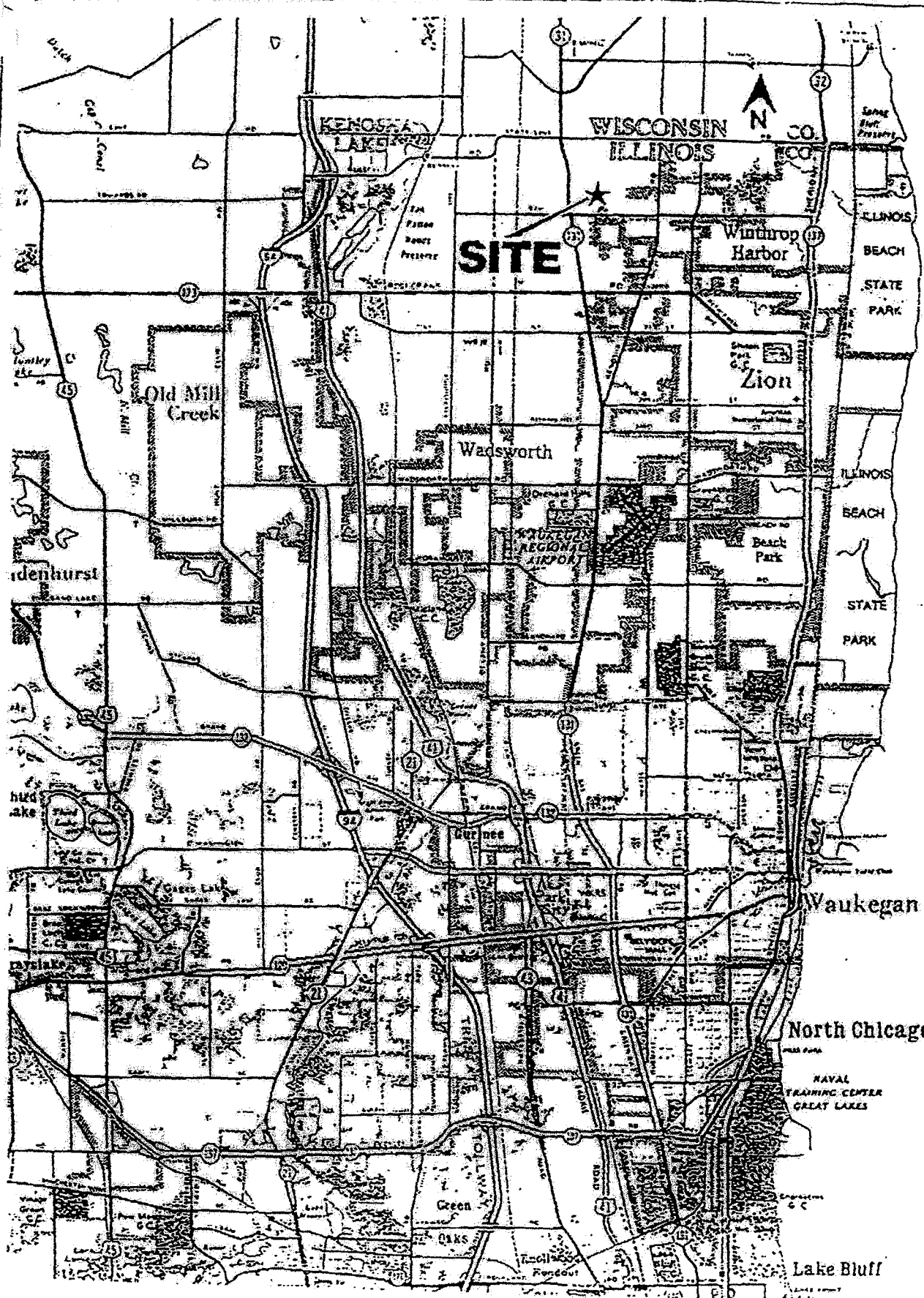
** IF ALL PAGES ARE NOT RECEIVED, CONTACT:

Jim @ 708-894-9000

COMMENTS: Information requested to do

Phase I, archaeological study at the
proposed Zion Landfill site for BFI.

If you need additional maps, drawings,
let me know. Thanks



SITE LOCATION

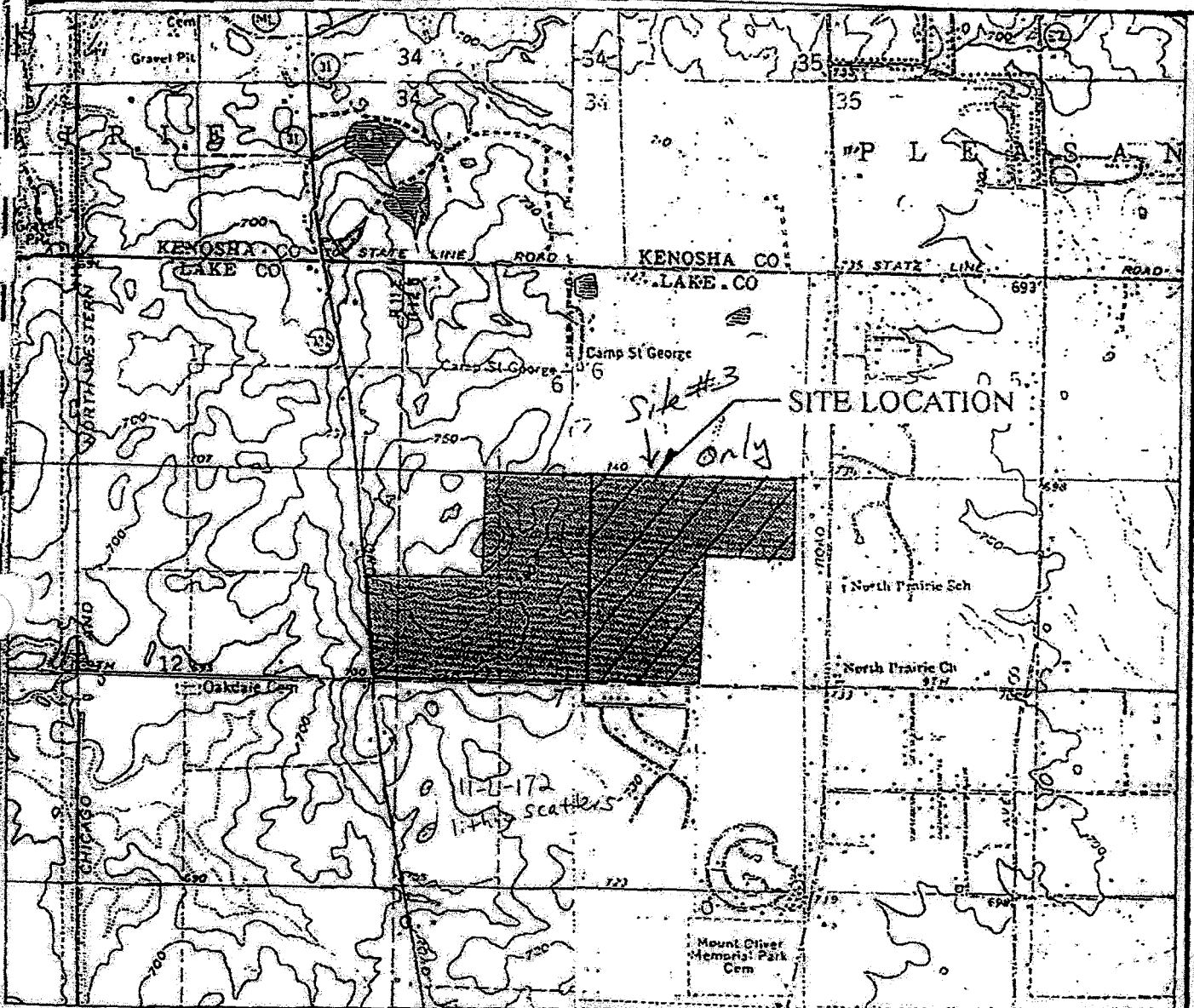
BFI 3 Industries

JUNE 1984 and 1985

Figure 1

Zion & Wadsworth Quads

PAGE 003



ILLINOIS

QUADRANGLE LOCATION

National Geodetic Vertical Datum of 1929
Contour Interval 10 Feet



Base map from U.S.G.S. 7.5' ZION, ILLINOIS
topographic quadrangle map, photorevised 1980

SIMON HYDRO-SEARCH

Brookfield Lakes Corporate Center XII
175 N. Corporate Drive, Suite 100
Brookfield, Wisconsin 53045

BFI #2
ZION, ILLINOIS

SITE LOCATION and



Illinois Historic
Preservation Agency

Old State Capitol • Springfield, Illinois 62701 • (217) 782-4836

LAKE COUNTY
Zion Solid Waste Management Facility
Proposed landfill expansion

IHPA LOG #921130005C-L

December 7, 1992

Mr. Philip Stecker, P.E.
Project Manager
CH2M HILL
310 West Wisconsin Avenue, Suite 700
PO Box 2090
Milwaukee, Wisconsin 53201-2090

Dear Mr. Stecker:

Thank you for requesting information on historic properties within the above referenced project area. Our files do not identify any previously recorded historic or archaeological sites within the area. Consequently, this project is exempt from review pursuant to the Illinois State Agency Historic Resources Preservation Act (Il. Rev. Stat. 1991, ch. 127, pars. 133c21 et seq.).

However, we would recommend a Phase I archaeological reconnaissance survey of any areas which have not been disturbed by previous landfill operations. This general area has numerous previously recorded archaeological sites and there may be unrecorded sites within the proposed expansion area.

If you have any questions, please contact Paula Cross, Senior Staff Archaeologist, Illinois Historic Preservation Agency, Old State Capitol, Springfield, Illinois 62701 at 217/785-4998.

Sincerely,

William L. Wheeler
State Historic Preservation Officer

WLW:pgc